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TEST PIT AND PIPING INVESTIGATION SUMMARY REPORT

350 & 351 Franklin Street
Olean, New York
NYSDEC Spill Number: 1300859

Prepared for

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APPENDICES

1.0 INTRODUCTION

Roux Associates, Inc. (Roux Associates), on behalf of ExxonMobil Environmental Services Company (ExxonMobil), has prepared the following *Test Pit and Piping Investigation Summary Report* (Summary Report) for New York State Department of Environmental Conservation (NYSDEC) Spill Number 1300859, associated with response actions at 350 and 351 Franklin Street in Olean, New York (NY) (the "Site").[1] Specifically, this Summary Report has been prepared to summarize piping, site feature, and grossly contaminated media (GCM) investigation, excavation, and removal activities conducted at the Site between November 7, 2016 and December 9, 2016.[2,3] All Site activities were performed in general accordance with the NYSDEC Division of Environmental Remediation (DER)-10 *Technical Guidance for Site Investigation and Remediation*, dated May 3, 2010 and effective June 18, 2010.

The remainder of this Summary Report is divided into the following sections:

- Section 2.0 provides a description of the Site its historical uses and regulatory history;
- Section 3.0 provides details regarding piping, Site feature, and GCM investigation, excavation, and removal activities;
- Section 4.0 provides details on waste management and disposal activities; and
- Section 5.0 provides a work plan describing proposed future activities.

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1 According to the City of Olean Assessor's Office on-line property information database these properties are also identified as parcel numbers 94.040-1-29.1 (351 Franklin Street) and 94.040-1-2.1 (350 Franklin Street).

2 For the purposes of the test pit investigation, features potentially associated with former refinery operations include those consisting of c. 1900s early modern era construction materials (e.g., wood, cast-iron or steel piping, bricks and pavers, etc.), piping containing petroleum, or associated piping and structures identified on historical maps.

3 Per 6 NYCRR Part 375, "GCM" means soil which contains sources or substantial quantities of mobile contamination in the form of Non-Aqueous Phase Liquid (NAPL), as defined in subdivision 375-1.2(ac), that is identifiable either visually, through strong odor, by elevated contaminant vapor levels, or is otherwise readily detectible without laboratory analysis.

2.0 SITE DESCRIPTION AND HISTORY

2.1 Site Description

The Site is located in the City of Olean, Cattaraugus County, NY (**Figure 1**). According to the City of Olean Assessor's Office on-line property information database, 350 Franklin Street consists of a 9.41-acre parcel (94.040-1-29.1) and 351 Franklin Street consists of a 6.26-acre parcel (9.41 94.040-1-2.1), both owned by Blue Bird Industrial Park, Inc. (**Figure 2**). Currently, 350 Franklin Street consists of an undeveloped grass field, with the exception of billboards adjacent to Interstate 86 located along the northwestern property line. There are three businesses operating within two buildings at 351 Franklin Street: "Valley Tire Co." and "First Transit Inc." share the southernmost building, and "Southern Tier Moving and Storage" occupies the northernmost building. Both buildings are slab-on-grade construction warehouse/garage buildings, containing one or more office areas, and landscaped areas. A large parking area surrounds and separates the two buildings.

The Site is bordered to the north/northwest by Interstate 86; to the east by the Southern Tier Rail Authority (STRA) railway and "All Weather Self Storage" at 302 Franklin Street; to the southeast by "Scott Rotary Seals" at 301 Franklin Street; to the south by 1420 Buffalo Street; and to the southwest by "Napoleon Engineering Services" at 1601 Johnson Street. Franklin Street bisects the Site with 350 Franklin Street located north and east of Franklin Street and 351 Franklin Street is south of Franklin Street.

The Site and surrounding areas are located within the Allegheny-Ohio-Mississippi River drainage basin, and according to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) for Olean, New York; the Site straddles "Zone B" and "Zone C" floodplain areas. Zone B areas are located between the limits of the base flood and the 500-year floodplain. Zone C areas are considered "areas of minimal flood hazard".

2.2 Historical Site Use

The section of Olean, NY which surrounds the area of the Site, has historically been occupied with industrial operations including, but not limited to, petroleum storage and refining, leather tanneries, heavy and light manufacturing, chrome plating, fertilizer manufacturing, and railroad facilities. The Site and area immediately surrounding the Site were formerly part of the Socony-Vacuum Oil Company, Inc. refinery, and used primarily as a petroleum refining facility

between 1876 and 1954.[4] From 1954 through 1964, Swan Finch Oil Company Olean Industries, Inc. stored grain and corn in approximately 60 tanks and buildings on the refinery property. From 1964 through 1983, Felmont Oil and Agway removed the old refinery tanks and buildings and constructed an anhydrous ammonia plant, jointly producing anhydrous ammonia and other fertilizers on portions of the surrounding area. The ammonia and fertilizer plants were dismantled by Agway in 1984. Ultimately, the property was transferred to Felmont Properties, LLC in 2004.

ExxonMobil acquired portions of the former refinery footprint in 2007 from Felmont Properties, LLC. In December 2013, ExxonMobil later sold the properties to Olean Gateway, LLC. The majority of the former refinery footprint is currently owned by Olean Gateway, LLC, Solean West LLC, and Solean LLC, and is in various stages of cleanup and redevelopment under the NYSDEC Brownfield Cleanup Program (BCP) being conducted by the current owners. The parcels comprising the Site are currently owned by Bluebird Industrial Park.

2.3 Site Regulatory History

In a letter dated April 26, 2013 to ExxonMobil, NYSDEC issued Spill Number 1300859, indicating that *"This spill is associated with petroleum contained in, and potentially spilled from, abandoned dilapidated piping"*, potentially, *"…associated with the historic SOCONY Vacuum Refinery…"* located at 351 Franklin Street, Olean, New York (Parcel 94.040-1-29.1) and on the adjacent STRA property (Parcels 94.048-1-3 and 94.040-1-26). Specifically, the *"petroleum contained within the piping"* was identified during remedial activities at the adjacent 301 Franklin Street property under the NYSDEC BCP (Scott Rotary Seals Site No. C905036). These remedial activities included *"the removal of abandoned refinery piping. Pipes extending off site were cut and capped at the property boundary"* and information pertaining to these pipes is provided in the *Final Engineering Report* prepared for the Scott Rotary Seals site.[5] Further, in the April 26, 2013 letter, NYSDEC requested that ExxonMobil initiate cleanup and removal activities of the "spill" including submittal of a remedial investigation work plan.

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[4] Through acquisitions and mergers, SOCONY became Exxon Mobil Corporation.

[5] The *Final Engineering Report* describes piping extending onto 351 Franklin Street (southwest of 301 Franklin Street) and the STRA property (east and southeast of 301 Franklin Street).

In response to the April 26, 2013 letter, Roux Associates, on behalf of ExxonMobil, prepared a work plan to investigate and address the piping identified by NYSDEC. The work plan was conditionally approved by NYSDEC in a letter to ExxonMobil dated August 7, 2013, contingent on the following: 1) characterize soil for petroleum impacts including analyzing soil exhibiting the greatest impacts, if any; and 2) trace the entire length of pipe encountered including exposing every 30 linear feet to assess pipe integrity and soil surrounding the pipe.

Subsequently, several investigation and remedial activities were performed under Roux Associates oversight, on behalf of ExxonMobil, and are summarized below:

- ***September/October 2013*** – Several preliminary/exploratory excavations in three select locations on the 301 Franklin Street property;

- ***December 2013*** – A total of approximately 21.27 tons (1,309 feet) of abandoned refinery piping ranging from 4 to 12 inches in diameter was excavated, cleaned and removed from the 301 and 351 Franklin Street properties. In addition, a total of 770 gallons (4,200 pounds) of hazardous pipe cleaning sludge and approximately 250 gallons of non-hazardous oily/water were generated and disposed off-Site;

- ***July 2014*** – Additional piping was excavated, and a total of 358.98 tons of non-hazardous GCM were disposed off-Site. During the activities, a total of approximately 12.37 tons (684 linear feet) of abandoned refinery piping ranging from 4 to 10 inches in diameter was excavated, cleaned and removed from 351 Franklin Street property. In addition, a total of 275 gallons (1,600 pounds) of hazardous pipe cleaning sludge and approximately 150 gallons of non-hazardous oily/water were generated and disposed off-Site;

- ***October 2014*** – A geophysical survey was performed at the 351 Franklin Street parcel and a portion of the 350 Franklin Street parcel to assist in further identifying abandoned piping and to better understand any additional potential subsurface features at the Site;

- ***April 14, 2015*** - Details regarding the September/October 2013 preliminary/exploratory excavations, December 2013 and July 2014 piping removal activities, and October 2014 geophysical survey, were provided to NYSDEC in the April 14, 2015 *Piping Investigation Summary Report*, prepared by Roux Associates, on behalf of ExxonMobil;

- ***June 2015*** – Based on the results of the October 2014 geophysical survey, a test pit investigation was conducted to assess several of the anomalies that did not correspond to known utilities connected to the existing buildings or known utility pipelines in the area. During the test pitting, the extent of GCM previously observed was further identified; and a geophysical survey of the remainder of the 350 Franklin Street parcel was conducted to assist in further identifying abandoned piping and potential subsurface features at the Site;

- ***October 21, 2015*** - Details regarding the June 2015 test pit investigation and geophysical survey were provided to NYSDEC in the October 21, 2015 *Test Pit Investigation Summary Report,* prepared by Roux Associates, on behalf of ExxonMobil;

- ***November/December 2015*** –Test pitting and additional piping and GCM removal activities were performed at the 350 and 351 parcels at the Site. During the activities, a total of 304.23 tons of non-hazardous GCM were disposed off-Site and a total of approximately 26.28 tons (1,922 linear feet) of abandoned refinery piping ranging from 2 to 12 inches in diameter was excavated, cleaned and removed from 351 Franklin Street property. In addition, a total of 6,600 pounds of non-hazardous pipe cleaning sludge and ten 55-gallon drums of non-hazardous oily/water were generated and disposed off-Site;

- ***June 14, 2016*** - Details regarding the November/December 2015 test pit and piping investigation were provided to NYSDEC in the June 14, 2016 *Test Pit and Piping Investigation Summary Report,* prepared by Roux Associates, on behalf of ExxonMobil;

- ***June/July 2016*** – Test pitting and additional piping and GCM removal activities were performed at the 350 and 351 parcels at the Site. During activities a total of 886.65 tons of non-hazardous GCM were disposed off-Site and a total of approximately 17.76 tons (1,020 linear feet) of former refinery piping ranging in diameter from two to eight inches was excavated, cleaned, and disposed off-site;[6]

- ***September 27, 2016 –*** A total of four soil borings were advanced to investigate the subsurface conditions in the vicinity of an underground metal structure identified during the June/July 2016 investigation activities; and

- ***November 3, 2016 -*** Details regarding the June/July and September 2016 test pit and piping investigation and soil boring activities were provided to NYSDEC in the November 3, 2016 *Revised Test Pit and Piping Investigation Letter Report,* prepared by Roux Associates, on behalf of ExxonMobil.

Additional test pitting, piping and GCM removal activities were performed at the Site in November and December 2016. Details of these activities, including future planned activities at the Site, are provided below.

[6] Note that modern piping not associated with former operations has been encountered at the Site and is not addressed as part of this investigation.

3.0 NOV/DEC 2016 INVESTIGATION AND REMOVAL ACTIONS

Between November 7 and December 9, 2016, Roux Associates, on behalf of ExxonMobil, conducted the following activities at the Site:

- Test pitting to investigate subsurface features and identify areas of potential GCM at 350 Franklin Street;
- Piping removal and excavation of potential GCM at 350 Franklin Street; and
- Investigation of subsurface features and additional GCM assessment, including soil boring advancement, at 351 Franklin Street.

Prior to performing the investigation and removal activities, DigSafely NewYork, Inc. and the City of Olean, New York water and sewer departments were contacted by Roux Associates to identify and mark (if applicable) known utilities and/or pipelines in the vicinity of the proposed test pit locations and excavation areas.

The following sections describe the work that was completed as part of the November and December 2016 investigation and removal activities.

3.1 Test Pitting Activities - 350 Franklin Street

TREC Environmental (TREC), under Roux Associates oversight, excavated nine test pits (identified as TP-180 through TP-188) on the 350 Franklin Street parcel between November 9 and 28, 2016. Test pits were advanced in locations where anomalies were identified at portions of the Site during the October 2014 and June 2015 geophysical surveys, as well as from historical aerial imagery. Note that no test pitting activities were performed within a 10-foot buffer ("critical zone") from any known active utilities.

TREC utilized a John Deer 200D and a Case CX210 excavator fitted with a trenching bucket to advance all nine test pits. During test pitting activities, soil was visually inspected for the presence of petroleum impact and olfactory evidence (i.e., staining, sheen, petroleum globules, and odor), screened using a calibrated MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp, and characterized for visual and textural classifications based on the Unified Soil Classification System (USCS). No samples were collected for laboratory analysis during the test pit investigation activities. Test pit locations are shown on Figure 3. Test pits

logs are provided as Appendix A, and photographs taken during the advancement of test pits are provided as Appendix B. A summary of the results is provided in Section 4.1.

3.2 Piping Excavation and Limited GCM Removal – 350 and 351 Franklin Street

From November 7 through December 9, 2016, TREC, under Roux Associates oversight, conducted targeted excavation activities at the 350 and 351 Franklin Street parcels to relocate and remove subsurface piping identified during previous investigations. Targeted excavation areas were completed as five Excavation Zones ("Zone") as shown in Figure 4 and detailed in Figures 5 through 9.

Once located, piping was inspected and its extent investigated by trenching along the pipe until 1) terminus was located, 2) critical zone of a known or suspected utility was encountered, 3) physical obstructions (e.g., structures, etc.) prevented further advancement of the excavation, or 4) piping was encountered extending off-Site. Where exposed via trenching, all piping was removed, cleaned (as necessary), and stored on-Site for subsequent off-Site disposal. Where removal was not feasible due to the proximity of utilities or other obstructions, piping was abandoned in place (via tremie-grouting) as described in Section 3.2.1.

Where piping with non-petroleum impacted water was encountered, the water was allowed to drain into the excavation and infiltrate into the subsurface. The ends of the pipe were temporarily plugged (to contain any residual liquid) before the pipes were removed from the excavation and staged for cleaning, prior to being placed in roll-off containers for disposal or recycling. Cleaning of the piping consisted of scraping each pipe with hand tools to ensure that each pipe was free of GCM and "free-liquid" and contained minimal-to-no petroleum residue.[7]

Throughout piping excavation activities, suspected GCM was excavated and removed for off-Site disposal from the 350 and 351 Franklin Street properties. Any GCM impacted media, "free-liquid" and poly sheeting generated as part of pipe removal and cleaning activities was placed on and covered with poly sheeting and temporarily stored pending off-Site disposal at an ExxonMobil-approved disposal facility as discussed in Section 5.0.

[7] In order for the material to be acceptable to the receiving facility, it had to be free from material that would fail the EPA Method 9095B paint filter liquids test, i.e., "Free Liquid." Efforts were made to remove any liquid material from the piping prior to disposal.

Select photographs of piping excavation activities and suspected GCM encountered throughout 350 and 351 Franklin Street are included in Appendix B. A summary of the results, including a detailed summary of results from each Zone, is provided in Section 4.2 and 4.4.

3.2.1 Piping Abandonment and Capping Activities – 350 and 351 Franklin Street

From November 7 through December 9, 2016, TREC, under Roux Associates oversight, performed pipe abandonment and pipe capping activities throughout piping excavation activities. Pipe abandonment activities were performed on sections of pipe that were found to be dry (no petroleum impacts observed) and could not be further removed without risking potential damage to the existing buildings or utilities. Pipe capping activities were performed on piping that was encountered and observed to extend off-Site or beneath active utility exclusion zones. All abandoned and capped pipes were cut and cleaned (to the extent possible) before grout was tremie-pumped to plug the pipe. Confirmatory endpoint samples were collected at each pipe terminus where capped or abandoned as described in Section 3.4. A summary of results from each Zone, is provided in Section 4.4.

3.3 Confirmatory Endpoint Soil Sampling Activities – 350 and 351 Franklin Street

From November 7 through December 9, 2016, Roux Associates collected a total of 105 confirmatory endpoint soil samples (END-400 through END-478, END-500 through END-509, TP-300 through TP-313) which were submitted for laboratory analysis. All endpoint samples were collected following NYSDEC DER-10, Section 5.4(b), where not otherwise directed by NYSDEC.[8] Upon collection, the confirmatory endpoint soil samples were stored on ice and transported under chain of custody to TestAmerica Laboratories, Inc. of Nashville, Tennessee (TestAmerica) for the following parameters:

- Volatile Organic Compounds (VOCs) by EPA method 8260C including Tentatively Identified Compounds (TICs);
- Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270D; and
- Target Analyte List (TAL) Metals by EPA Methods 6010C / 7471B.

[8] Confirmatory endpoint sampling along the main pipe cluster within Zone 3 was modified with NYSDEC concurrence on November 16, 2016 to limit sampling requirements. Endpoint sampling continued to following the general requirements of DER-10 Section 3.9(a)6 however at a reduced sampling frequency due to the length of the pipes being greater than 50 feet. Additionally, where pipe clusters were encountered, sample locations were biased towards any evidence of potential impact and were collected from each 10-foot-wide section of trench rather than beneath each individual pipe run.

A summary of the results, including a detailed summary of results from each Zone, is provided in Section 4.3 and 4.4.

3.4 Subsurface Structure Investigation – 351 Franklin Street

Subsurface Metal Structure Excavation

As indicated in the November 3, 2016 *Revised Test Pit and Piping Investigation Letter Report*, prepared by Roux Associates, on behalf of ExxonMobil, Roux Associates planned to remove the two subsurface metal structures encountered on the 351 Franklin Street property. Both metal structures (referred to as "Structure 1" and "Structure 2") are located adjacent to the north of the Southern Tier Moving and Storage warehouse building (Figure 10). TREC, under the oversight of Roux Associates, exposed the northern subsurface metal structure identified as Structure 2 on November 9, 2016. The rim of Structure 2 was located and exposed and appeared to be approximately 30 feet in diameter, approximately 10 ft larger than previously indicated.[9] The excavation was advanced around the exterior of the subsurface metal structure along the northern extent in an effort to determine the depth of the structure. The excavation was extended to approximately 22 ft bgs, where the vertical extent of the subsurface metal structure was exposed. Note that suspected GCM as defined by presence of petroleum sheen, along with olfactory evidence (i.e. petroleum odor) was observed at a depth of approximately 18 to 22 ft bgs during the excavation along the exterior of the subsurface metal structure. Any GCM encountered was removed for off-Site disposal.[10] The subsurface metal structure appeared to be constructed directly on top of the grey clay confining layer which was also encountered at approximately 22 ft bgs. Groundwater was observed at approximately 20-22 ft bgs, directly above the clay confining layer. Due to the diameter, the depth, and the proximity of the subsurface metal structure to the existing building, the excavation was stopped and the area was backfilled leaving the subsurface metal structure in place.

Soil Boring Advancement

Following the initial subsurface metal structure investigation described above, a total of 14 soil borings (SB-100 to SB-113) were advanced using a Geoprobe track mounted direct push drill rig between November 9 to November 18, 2016. The purpose of the soil borings was to further

[9] During previous investigations, Structure 2 was only partially exposed at the surface.

[10] Approximately 40 tons of suspected GCM was subsequently removed from around the northern exterior of the structure from a depth of approximately 18 to 22 ft bgs.

investigate areas of suspected GCM and to investigate subsurface conditions within and beneath the subsurface metal structures to assess the necessity of their removal. Each borehole was advanced to the confining clay layer (found in previous investigations to be at a depth between 20 to 25 ft bgs), or to refusal. Soils were screened in the field for visible impacts and were analyzed with a PID for detectable levels of VOCs.

A total of 5 soil samples were collected from soil borings SB-100 to SB-105 which were submitted for laboratory analysis by TestAmerica for the following parameters:

- Volatile Organic Compounds (VOCs) by EPA method 8260C including Tentatively Identified Compounds (TICs);
- Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270D; and
- Target Analyte List (TAL) Metals by EPA Methods 6010C / 7471B.

All soil boring locations and the locations of the metal subsurface structures are depicted on Figure 10, and further described below. Soil boring logs are included as Appendix A. A summary of the subsurface structure investigation results is provided in Section 4.5.

3.5 Additional GCM Assessment – 351 Franklin Street

Soil Boring Advancement – Former Test Pit Location TP-202

Three soil boings, SB-114 to SB-116, were advanced using a Geoprobe track mounted direct push drill rig between November 9 to November 18, 2016 in proximity to a former test pit location TP-202 to further delineate potential areas of remaining GCM as previously identified. Soil borings were advanced to depths ranging from 24 to 36 feet bgs in the location of former test pit TP-202, which was advanced during the June/July 2016 mobilization. TP-202 was excavated to a depth between 17 and 18 feet bgs and endpoint confirmation soil sample TP-202 was collected from the test pit bottom. The maximum PID reading from TP-202 was 1,636 ppm at 17 to 18 ft bgs.[11]

[11] The maximum reach of the excavator used is 18 feet bgs.

Soil Boring Advancement – Former Endpoint Location END-100

Three soil borings, SB-117 to SB-119, were advanced using a Geoprobe track mounted direct push drill rig between November 9 to November 18, 2016 to further investigate the extent of suspected GCM identified during previous investigations in the vicinity of endpoint sample END-100. Soil borings SB-117 to SB-119 were advanced to depths of between 20 to 24 ft bgs in this location. The ability to investigate and remove suspected GCM at this location is partially prohibited by an active gas utility line along the southern property boundary.

Soil boring locations are depicted on Figure 10. Soil boring logs are included as Appendix A. A summary of the additional GCM assessment results is provided in Section 4.6.

4.0 NOV/DEC 2016 INVESTIGATION AND REMOVAL RESULTS

This Section summarizes the results of the November and December 2017 investigation and removal activities.

4.1 Test Pitting Activities - 350 Franklin Street

TREC Environmental (TREC), under Roux Associates oversight, excavated nine test pits (identified as TP-180 through TP-188) on the 350 Franklin Street parcel as shown on Figure 3.

Test pits TP-180 and TP-182 through TP-187 were excavated to a depth in which a grey clay confining layer was encountered which was observed at depths ranging from approximately 6 to 12 feet (ft) below ground surface (bgs). Test pit TP-181 was advanced to a total depth of 15 ft bgs which was the maximum depth achievable by the equipment used. A sand, silt and gravel fill was encountered throughout however no grey clay confining layer was encountered in TP-181. Test pit TP-188 was advanced to a total depth of 12 ft bgs where a layer of running sands was encountered at approximately 10 ft bgs which prevented further advancement of the test pit. No grey clay confining layer was encountered in TP-188.

Soil encountered during the test pit investigation generally consisted of light brown fine-to-coarse sand and silt with gravel between ground surface and approximately 5 ft bgs, underlain by dark brown to grey fine to coarse sand, silt and gravel. The maximum soil headspace reading measured was 1,462 parts per million (ppm) in test pit TP-186 at a depth of 7.5 ft bgs.

In five of the nine test pits, suspected GCM was observed at depths ranging from approximately 3.5 to 12 feet bgs. Suspected GCM was considered to be soils that exhibited staining, sheen, and/or presence of petroleum globules, along with olfactory evidence (i.e. petroleum odor) and/or elevated soil headspace readings. Areas of potential GCM were encountered in test pits TP-180, TP-184, TP-186, TP-187 and TP-188 based on presence of petroleum globules, along with olfactory evidence (i.e. petroleum odor) and/or elevated soil headspace readings.

Features associated with the former refinery operations in the form of brick/concrete debris were identified within the two test pits, TP-184 and TP-186, however no piping was encountered.[12]

A summary of the test pit observations, including any features encountered and potential GCM observed, is provided below.

Test Pit Location	Max. PID Readings (depth in ft bgs)	Anomalies (depth in ft bgs)	Potential Petroleum Impact (depth in ft bgs)
TP-180	364.2 ppm (9.5)	None noted	GCM (4-9.5)
TP-181	24.4 ppm (4)	None noted	No GCM
TP-182	1.7 ppm (5.5)	None noted	No GCM
TP-183	159.3 ppm (12)	None noted	No GCM
TP-184	119.6 ppm (9)	Brick debris (4 - 7)	GCM (7-10)
TP-185	68.7 ppm (7.5)	None noted	No GCM
TP-186	1,462 ppm (7.5)	Brick and concrete debris (3.5-7.5)	GCM (3.5-7.5)
TP-187	400.2 ppm (10)	None noted	GCM (4-10)
TP-188	NA	None noted	GCM (10-12)

ppm = parts per million
ft bgs = feet below ground surface
NA = not analyzed

4.2 Piping Excavation and Limited GCM Removal – 350 and 351 Franklin Street

From November 7 through December 9, 2016, TREC, under Roux Associates oversight, conducted targeted excavation activities at the 350 and 351 Franklin Street parcels to relocate and remove subsurface piping identified during previous investigations as shown in Figures 4 through 9.

Approximately 41.6 tons (4,388 linear feet) of former refinery piping, ranging in diameter from 2 to 6 inches from the 350 Franklin Street property was excavated, cleaned, and disposed off-Site. In addition to former refinery piping, approximately 200 square feet of metal debris and scrap metal encountered throughout the excavation activities was removed.

[12] For the purposes of the test pit investigation, features encountered that are not suspected to be associated with former refinery operations include those consisting of c. 1950s to modern era construction materials (e.g., clay tiling, galvanized metal, PVC, etc.) and known active public or private utilities.

A total of approximately 947 tons of suspected GCM during piping excavation activities from the 350 and 351 Franklin Street properties. Suspected GCM was removed vertically to the maximum extent feasible based on equipment limitations. Suspected GCM was left in place throughout select portions of the entire excavation area as indicated in the Section 4.4.

All excavation areas were restored to the original surface grade with approximately 969 tons of clean "Bank Run Gravel" and 266 tons of "Crushed Rock #1 and #2". Backfill material was compacted in lifts using the weight of the excavator bucket. All backfill material was sourced from and trucked to the Site by Giardini Brothers Construction Inc. (GBC) of Allegheny, NY, a NYSDEC permitted quarry.

4.3 Confirmatory Endpoint Soil Sampling Activities – 350 and 351 Franklin Street

During the November/December 2016 piping removal and GCM excavation activities, a total of 105 confirmatory endpoint soil samples (END-400 through END-478, END-500 through END-509, TP-300 through TP-313) were collected and submitted for laboratory analysis. A copy of the laboratory analytical report is provided in **Appendix C**.

Analytical results of confirmatory endpoint soil samples for VOCs and SVOCs were compared to the NYSDEC *Final Commissioner's Policy CP-51 / Soil Cleanup Guidance* (issued October 21, 2010), Table 3 - SCLs for Fuel Oil Contaminated Soil. Analytical results of confirmatory endpoint soil samples for metals were compared to the NYSDEC 6 NYCRR Part 375 Environmental Remediation Program SCOs for Commercial Use.

Results indicate concentrations of compounds detected in the confirmatory endpoint soil samples exceeded the SCL/SCOs in 31 of the total 105 endpoint samples collected as shown in **Table 1**. The most common chemical exceedance was arsenic, which was detected in exceedance of the SCOs at 22 endpoint sample locations; followed by total xylenes, which was detected in exceedance of the SCLs at 11 endpoint sample locations. Benzene and 1,2,4-trimethylbenzene were each detected in exceedance of SCLs at six endpoint sample locations. Additionally, the laboratory method detection limits for SVOC compounds benzo(b)fluoranthene, chrysene, dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene) were above the published SCL in the endpoint sample END-403. A summary of the frequency of exceedances in endpoint sample locations by chemical compound is shown below:

Chemical Name	CP-51 SCL / Part 375 Commercial Use SCO (mg/kg)	# of Exceedances
Volatile Organic Compounds		
1,2,4-TRIMETHYLBENZENE	3.6	6
1,3,5-TRIMETHYLBENZENE	8.4	3
BENZENE	0.06	6
ETHYLBENZENE	1	1
TOLUENE	0.7	1
XYLENES, TOTAL	0.26	11
Semi-Volatile Organic Compounds		
BENZO(B)FLUORANTHENE	1	1
CHRYSENE	1	1
DIBENZ(A,H)ANTHRACENE	0.33	1
INDENO(1,2,3-C,D)PYRENE	0.5	2
Metals		
ARSENIC	16	22
BARIUM	400	1
COPPER	270	2
LEAD	1000	1
MERCURY	2.8	1

4.4 Excavation Zone Results – 350 and 351 Franklin Street

A summary of piping excavation, limited GCM removal, and confirmatory endpoint sampling activities based on Excavation Zone is described in the Sections below.

4.4.1 Excavation Zone 1

Piping Excavation, Cleaning and Removal

A total of 660 liner feet of piping was excavated, cleaned and removed from Zone 1. The piping consisted of seven individual pipe runs ranging from 2 to 6 inches in diameter.

Piping Abandonment and Capping

A total of two individual 6-inch diameter pipe runs were encountered extending off-Site to the north towards the Interstate 86 right-of-way. One 6-inch diameter pipe was cut and capped approximately 10 feet from the property boundary in the vicinity of endpoint sample location END-402, and the second 6-inch pipe was cut and capped approximately 20 feet from the property boundary in the vicinity of endpoint sample location END-404. Additionally, the two

6-inch pipe runs, and an additional 3-inch pipe run, were abandoned in place beneath an active electrical utility exclusion zone in the vicinity of endpoint sample locations END-405 and END-407.

GCM Removal

Approximately 217 tons of suspected GCM was removed from the vicinity of endpoint samples END-407 to END-419 from a depth of approximately 4 to 15 ft bgs. Suspected GCM was left in place both vertically at a depth greater than 15 ft bgs and laterally to the northeast and southwest surrounding endpoint sample locations END-421 and END-419.

Confirmatory Endpoint Sampling

A total of 19 confirmatory endpoint samples were collected within Zone 1: END-402, END-404 to END-409, END-419 to END-421, and END-469 to END-477. PID headspace readings ranged from 0.6 ppm to a maximum of 788 ppm from END-420. Concentrations of compounds detected in the confirmatory endpoint soil samples were at, or above, SCLs for at least one compound in 6 of the 19 endpoint sample locations.

4.4.2 Excavation Zone 2

Piping Excavation, Cleaning and Removal

A total of 300 liner feet of piping was excavated, cleaned and removed from Zone 2. The piping consisted of two individual 6-inch pipe runs.

Piping Abandonment and Capping

A single 6-inch diameter pipe run was encountered extending to the south towards the Franklin Street right-of-way. The pipe run was cut and capped approximately 30 feet from the property boundary in the vicinity of endpoint sample location END-425. No piping was abandoned in place within Zone 2.

GCM Removal

No suspected GCM was observed or removed during piping removal activities within Zone 2.

Confirmation Endpoint Sampling

A total of 10 confirmatory endpoint samples were collected within Zone 2: END-425 to END-434. PID headspace readings ranged from 0.8 ppm to a maximum of 68.4 ppm from END-433.

Concentrations of compounds detected in the confirmatory endpoint soil samples exceeded SCLs for arsenic from one of the 10 endpoint sample locations (END-433).

4.4.3 Excavation Zone 3

Piping Excavation, Cleaning and Removal

A total of 3,428 liner feet of piping was excavated, cleaned and removed from Zone 3. The piping consisted of a main piping cluster containing six individual pipe runs ranging from 4 to 6 inches in diameter oriented northeast to southwest. This Zone also included a series of seven individual pipe runs ranging from 4 to 6 inches in diameter which crossed, but were not physically connected, to the main pipe cluster.

Piping Abandonment and Capping

A cluster of six parallel pipe runs consisting two 4 inch, and four 6 inch pipes were encountered extending to the south towards the Franklin Street right-of-way. Each of the six individual pipe runs associated with the main piping cluster were cut and capped approximately 40 feet from the property boundary in the vicinity of endpoint sample location END-466 and END-467. Additionally, a fifth 6-inch diameter pipe run was observed crossing the main pipe cluster extending approximately 95 feet southeast of the main pipe cluster. This pipe was also encountered extending to the south towards the Franklin Street right-of-way and was cut and capped approximately 35 feet from the property boundary in the vicinity of endpoint sample location END-454. No piping was abandoned in place within Zone 3.

GCM Removal

Approximately 690 tons of suspected GCM was removed along the majority of the excavation zone northeast of endpoints END-460 and 461 from depths between 4 and 15 ft bgs. Suspected GCM was left in place in select areas of Zone 3 vertically at a depth greater than 15 ft bgs surrounding endpoint sample locations END-435 to END-448 and laterally to the northwest and southeast surrounding endpoint sample locations END-423 to END-461.

Confirmation Endpoint Sampling

A total of 45 confirmatory endpoint samples were collected within Zone 3: END-410 to END-412, END-414 to END-418, END-422 to END-423, END-435 to END-468, and END-478. Note that confirmatory endpoint sampling along the main pipe cluster within Zone 3 was modified

with NYSDEC concurrence on November 16, 2016 to limit sampling requirements. Endpoint sampling continued to following the general requirements of DER-10 Section 3.9(a)6 however at a reduced sampling frequency due to the length of the pipes being greater than 50 feet. Additionally, where pipe clusters were encountered, sample locations were biased towards any evidence of potential impact and were collected from each 10-foot-wide section of trench rather than beneath each individual pipe run. PID headspace readings ranged from 0.3 ppm to a maximum of 372.4 ppm from END-448. Concentrations of compounds detected in the confirmatory endpoint soil samples exceeded SCLs for at least one compound in 9 of the 45 endpoint sample locations.

4.4.4 Excavation Zone 4

Piping Excavation, Cleaning and Removal

No piping was excavated, cleaned or removed from Zone 4 however piping was uncovered and examined to facilitate pipe capping (see below).

Piping Abandonment and Capping

Approximately 28 individual pipe runs ranging in diameter from 1 to 6 inches were encountered throughout Zone 4. The pipe runs were encountered as both individual pipe runs, as well as clusters of up to four pipes running in parallel. A total of 16 pipe runs were observed to extended off-Site to the north towards the Interstate 86 right-of-way in the vicinity of endpoint sample locations END-500 through END-502 (with the exception of END-501a) and END-508 through END-512. All 16 pipe runs that were observed to extend off-Site were cut and capped approximately 5 feet from the property boundary. The remaining 12 pipe runs that were observed within Zone 4 were also oriented north extending towards the Interstate 86 right-of-way. The additional 12 pipe runs were cut and capped between approximately 20 to 40 feet from the property boundary. Additionally, due to the proximity of an active electrical utility exclusion zone, two pipe runs in the vicinity of endpoint sample locations END-503 and END-513 were abandoned in place beneath the active electrical utility exclusion zone.

GCM Removal

Approximately 20 tons of suspected GCM was removed from within Zone 4 during piping removal activities in the vicinity of endpoint samples END-400 through END-403. Suspected GCM was generally encountered and removed from 4 to 8 ft bgs. Suspected GCM was left in

place in select areas of Zone 4 both vertically from a depth greater than 8 ft bgs and laterally to the northwest and southeast from endpoint sample locations END-512 to END-509 and END-400 to END-401.

Confirmation Endpoint Sampling

A total of 17 confirmation endpoint samples were collected within Zone 4: END-400, END-403, and END-500 to END-513. PID headspace readings ranged from 0.4 ppm to a maximum of 372.4 ppm from END-509. Concentrations of compounds detected in the confirmatory endpoint soil samples exceeded SCLs for at least one compound in 12 of the 17 endpoint sample locations.

4.4.5 Excavation Zone 5

Piping Excavation, Cleaning and Removal

No piping was excavated, cleaned or removed from Zone 5; however, a single 20-inch diameter pipe run was investigated for the presence of petroleum impacts, if any. This pipe run extends along the western edge of the 350 Franklin Street property boundary in a northwest to southeast orientation and along the western edge of the 351 Franklin Street property boundary in a north to south orientation. Due to the proximity of existing underground utility lines, potential City Storm Sewer system connectivity, the diameter (20-inches) and length (over 455 feet), and the potential disturbance to the current tenant operations, Roux Associates did not remove or abandon this pipe run. Instead, the pipe was assessed by tapping (threaded hole drilled) every 30 linear feet in an effort to identify the presence of petroleum, and subsequently sealed with a threaded plug prior to backfilling. No petroleum material was noted within the pipe during the pipe tapping activities. Any GCM encountered surrounding the pipe was removed and endpoint samples were collected as described further below in Sections 3.2.3 and 3.2.4 respectively.

Piping Abandonment and Capping

No piping was capped or abandoned in place within Zone 5. The 20-inch diameter pipe was left in place as noted above. No petroleum was observed within any piping encountered within Zone 5.

GCM Removal

Approximately 20 tons of suspected GCM was removed within the vicinity of endpoint samples TP-305 and TP-308 and surrounding TP-309 and TP-312 from a depth of approximately 4 to 8 ft

bgs. Suspected GCM was noted to be left in place laterally to the north and south surrounding TP-312 and TP-309 and to the east and west of TP-305 to TP-308. No GCM remains vertically beneath the pipe run and endpoint samples were collected from the bottom of the excavated area beneath the pipe run.

Confirmation Endpoint Sampling

A total of 14 confirmation endpoint samples were collected within Zone 5: TP-300 to TP-313. PID headspace readings ranged from non-detect to a maximum of 106.6 ppm at TP-312. Concentrations of compounds detected in the confirmatory endpoint soil samples exceeded SCLs for arsenic in 3 of the 14 endpoint sample locations.

4.5 Subsurface Structure Investigation – 351 Franklin Street

Subsurface Metal Structure Excavation

As described above, due to the diameter, the depth, and the proximity of the subsurface metal structures to the existing building, both Structure 1 and Structure 2 were left in place.

Soil Boring Advancement

As shown in Figure 10, soil borings SB-100 to SB-104 were advanced to 24 ft bgs in the vicinity of Structure 1. Soil borings SB-105 to SB-113 were advanced to a depth ranging from 24 to 36 ft bgs in the location of Structure 2.

Soil samples were selected for laboratory analysis from soil borings SB-100 to SB-104 based on visual classification, sample interval (e.g., sample depth with respect to the observed water table), the potential presence of petroleum impact (i.e., odor, sheen, staining), and/or PID headspace screening results. Generally, soil samples were collected from the depth interval(s) exhibiting the highest soil headspace readings (as subsurface conditions and/or sample recoveries allowed). Analytical results of confirmatory endpoint soil samples for VOCs and SVOCs were compared to the NYSDEC *Final Commissioner's Policy CP-51 / Soil Cleanup Guidance* (issued October 21, 2010), Table 3 - SCLs for Fuel Oil Contaminated Soil. Analytical results of confirmatory endpoint soil samples for metals were compared to the NYSDEC 6 NYCRR Part 375 Environmental Remediation Program SCOs for Commercial Use. Note that analytical samples collected from all soil boring locations were below SCLs. A copy of the laboratory analytical report is provided in **Appendix C**

Suspected GCM was generally observed from 8 to 24 ft bgs, with a max PID reading of 2,385 ppm from boring location SB-112 (located on the northeastern exterior of Structure 2).

4.6 Additional GCM Assessment – 351 Franklin Street

Soil Boring Advancement – Former Test Pit Location TP-202

Results of the three soil borings, SB-114 to SB-116, advanced in the vicinity of former test pit TP-202 indicate that suspected GCM is present at depths of between 8 and 25 ft bgs; however due to the proximity of the active telecommunication utility exclusion zone (Figure 10) this material was left in place. The maximum PID reading of 1,045.1 ppm was recorded from boring SB-115 at a depth of 24 ft bgs.

Soil Boring Advancement – Former Endpoint Location END-100

Results of the three soil borings, SB-117 to SB-119, indicate that suspected GCM remains at this location from depths of between 12 and 20 ft bgs; however, due to the proximity of the active gas utility exclusion zone this material was left in place (Figure 10). The maximum PID reading of 320.5 ppm was recorded from soil boring SB-118 at 16 ft bgs.

5.0 WASTE MANAGEMENT AND DISPOSAL

Waste generated at the Site during the November/December 2016 piping removal and GCM excavation activities is summarized below:

- **Piping** – Between November 30 and December 7, 2016, a total of 41.6 tons (4,387.75 linear feet) of metal pipe was transported off-Site and recycled at Goodman Services, Inc. (a division of Metalico) in Bradford, Pennsylvania. To date, a total of 101.01 tons (8,302.75 linear feet) of metal pipe has been removed and recycled off-Site.

- **GCM –** Between December 7 and December 8, 2016, a total of 987.17 tons of GCM was transported off-Site under Non-Hazardous Waste Manifests to Waste Management of New York's Chaffee Landfill in Chaffee, NY. To date, a total of 1,641.96 tons of GCM has been transported and disposed off-Site.

A copy of the waste shipment documentation for the above waste streams generated during the November/December 2016 piping removal and GCM excavation activities is provided in **Appendix D**.

6.0 PROPOSED FUTURE ACTIVITIES

This proposed work plan has been prepared using the data obtained during piping removal, Site feature, and GCM excavation activities conducted to date. The immediate objective of this work plan is to address the remaining features (i.e., piping and structures) potentially associated with former refinery operations at the Site. This work plan includes details for piping removal, piping abandonment, and excavation of suspected GCM from the 350 Franklin Street property. Although suspected GCM and subsurface structures remain on 351 Franklin Street, the immediate proposed work to be completed in 2017 will focus on piping and suspected GCM removal on 350 Franklin Street. The remaining site features on 351 Franklin Street will be addressed at a later date.

Prior to conducting any subsurface investigation or removal actions, Roux Associates will ensure that the Site-specific Health and Safety Plan (HASP) has been updated to address current requirements of the Occupational Safety and Health Administration (OSHA) (29 CFR Part 1910), National Institutes of Safety and Health (NIOSH) practices and specific ExxonMobil health and safety protocols. All work will be performed in accordance with the HASP, as well as ExxonMobil and Roux Associates health and safety protocols.

In addition, DigSafely NewYork, Inc. and the City of Olean, NY water and sewer departments will be contacted by Roux Associates to identify and mark, if applicable, known utilities and/or pipelines in the vicinity of the proposed excavation and soil boring locations. All known private utilities and anomalies identified during previous investigations will be marked-out prior to conducting work at the Site.

6.1 350 Franklin Street

Based on previous geophysical survey and piping investigation activities performed at the Site, piping and areas of suspected GCM potentially associated with former refinery operations have been identified and planned for removal. Areas of piping planned for future excavation/removal is shown on **Figure 11** and will proceed by numerically identified zones as appropriate.

6.1.1 Piping and GCM Removal

All encountered subsurface piping will be tapped (threaded hole drilled) to determine the presence of petroleum, if any. The extent of the piping will be determined by advancing a semi-

rigid electricians snake into the drilled/tapped hole and/or inducing a signal into the pipe using a utility locator and an associated receiver. The location (latitude and longitudinal coordinates) will be logged electronically into a field GPS device. All piping determined to be related to former refinery operations will be removed, to the extent technically feasible.

When piping is found to contain liquid, the piping will be excavated such that the top of the pipe is exposed. Using the excavator, the pipe will be pitched to allow the liquid within to drain into a collection pan. The liquid will then be recovered with a drum-vac or vac-truck. The ends of the piping will be temporarily plugged (to contain any residual liquid) before the pipes are removed from the excavations and staged for cleaning. Cleaning of the piping will consist of scraping each pipe with a semi-circular garden hoe to ensure each pipe is free of pipe sludge and "free-liquid" and contains minimal-to-no petroleum residue. The sludge cleaned from the piping will be temporarily stored on-Site in DOT approved 55-gallon steel drum(s) pending characterization and profiling. The drum(s) will be transported off-Site under either a Uniform Hazardous Waste Manifest or Bill of Lading to an ExxonMobil and NYSDEC approved disposal/recycling facility.

In areas where piping removal is not feasible due to the proximity of utilities or other obstructions (including piping extending off-Site), the piping will be abandoned in place. Abandoned pipes will be cut and cleaned (to the extent possible) before concrete is tremie-pumped to plug the pipe. Locations where piping is abandoned in place will be documented and logged with a GPS device. The soil conditions surrounding all pipes abandoned in place will be documented (i.e. photography, GPS coordinates, PID readings, visual and textural classification). For pipes that exhibit residual petroleum impacts or extend off-Site, analytical samples will be collected following the procedures outlined in NYSDEC DER-10, Section 5.4(b).

GCM will be defined at the Site through visual confirmation of significant NAPL in the form of staining, sheening, and/or presence of petroleum globules. During piping removal, attempts will be made to remove any suspected GCM encountered and to identify the source of any encountered GCM. All excavated material not containing GCM will be placed back into the respective excavation. All soil containing suspected GCM generated during excavation activities will be properly contained (i.e., depending on the volume of soil generated, placed in either DOT approved 55-gallon steel drums, roll-off dumpsters, or on poly sheeting) and temporarily stored

on-Site pending disposal characterization and profiling. Upon characterization and profiling, the properly contained waste will be shipped under either a Uniform Hazardous Waste Manifest or Bill of Lading to an ExxonMobil and NYSDEC approved disposal/recycling facility. Clean "Bank Run Gravel" backfill material will be used to restore GCM excavation areas to grade. All backfill material will be sourced from and trucked to the Site by GBC of Allegheny, NY.

6.1.2 Soil Sampling

During piping removal, soil samples will be collected using the grab technique. Soil will be visually inspected for the presence of petroleum impact and olfactory evidence (i.e., staining, sheen, petroleum globules, odor), screened using a calibrated MiniRAE 3000 PID equipped with a 10.6 eV lamp, and characterized for visual and textural classifications based on the USCS.

Confirmation endpoint sampling frequencies and protocols will be collected following NYSDEC DER-10, Section 3.9(a)6 with the following exceptions pending NYSDEC concurrence:

- Where total piping lengths are encountered between 1 and 50 liner feet, one confirmatory endpoint sample should be collected from below the pipe and biased towards any evidence of potential discharges;
- Where total piping lengths are encountered in excess of 50 liner feet, the confirmatory endpoint sample frequency of one sample (below the pipe and biased towards any evidence of potential discharges) for each 50 linear should be used; and
- Where more than one pipe run is encountered, and the pipe runs are observed to be oriented parallel to each other, the piping may be deemed as a "cluster". Confirmatory endpoint sampling along pipe clusters will be biased towards any evidence of potential discharges and collected from each 10-foot-wide section of trench rather than beneath each individual pipe run at a frequency described above.

Endpoint samples will be stored on ice and transported under chain of custody to a pre-determined laboratory for the following parameters:

- VOCs by EPA method 8260C;
- SVOCs by EPA Method 8270D; and
- RCRA-8 Metals by EPA Methods 6010C / 7471B.
- Tentatively identified compounds (TICs)

Analytical results of the soil samples will be compared to the NYSDEC *Final Commissioner's Policy CP-51 / Soil Cleanup Guidance* (issued October 21, 2010) Table 3 Soil Cleanup Levels for Fuel Oil Contaminated Soil and Part 375 Commercial SCOs for metals.

6.2 Work Schedule and Reporting

The NYSDEC will be provided with a 30-day notice prior to continuing work at the Site.

Respectfully Submitted,
ROUX ASSOCIATES, INC.

Matthew Casey
Senior Engineer

Ian Reed
Principal/Office Manager

TABLES

Table 1: Soil Endpoint Analytical Results Summary Table
ExxonMobil Environmental Services Company
350/351 Franklin Street, Olean, NY

Chemical Name	CP-51 SCL	Part 375 Commercial Use SCO	Sample ID	END 400	END 401	END 403	END 404	END 406	END 415	END 422	END 433	END 438	END 445
			Date	11/10/2016	11/10/2016	11/10/2016	11/11/2016	11/14/2016	11/15/2016	11/17/2016	11/17/2016	11/23/2016	11/28/2016
			Soil Headspace (ppm)	62.7	0.6	0.2	1.6	144.6	17.6	0.4	68.4	555.6	752.3
			Sample Depth (ft-bgs)	10	4	1	9	6	7	12	6	8	12
Volatile Organic Compounds													
1,2,4-TRIMETHYLBENZENE	3.6	-		0.0785 U	0.00125 U	0.0739 U	0.43	0.302	0.000975 U	0.00153 U	0.00128 U	0.12	**9.04**
1,3,5-TRIMETHYLBENZENE	8.4	-		0.157 U	0.000249 U	0.148 U	0.0867 J	0.0639	0.00195 U	0.00114 U	0.000963 U	0.105 U	4.75
BENZENE	0.06	-		0.00677	0.00238 J	0.000759 U	0.00559	0.0113	0.000653 U	0.00302 J	0.000860 U	0.00096 J	0.0076
ETHYLBENZENE	1	-		0.00932	0.000835 U	0.0503 U	0.211 J	0.00649	0.000653 U	0.00102 U	0.000860 U	0.000559 U	0.000652 U
TOLUENE	0.7	-		0.00623	0.00168 J	0.0584 J	0.362	0.00105 U	0.000721 U	0.0039	0.000950 U	0.012	0.00351
XYLENES, TOTAL	0.26	-		0.0471	0.0017 J	0.101 J	**1.56**	0.0315	0.00120 U	0.00188 U	0.00158 U	0.00103 U	0.128
Semi-Volatile Organic Compounds													
BENZO(B)FLUORANTHENE	1	-		0.402 J	0.140 U	**2.77** U	0.276 U	0.249 J	0.0334 U	**1.15**	0.140 U	0.057 J	0.0307 U
CHRYSENE	1	-		0.889	0.185 U	**3.66** U	**1.67**	0.659	0.0442 U	0.927	0.185 U	0.0451 J	0.0406 U
DIBENZ(A,H)ANTHRACENE	0.33	-		0.320 U	0.160 U	**3.17** U	0.316 U	0.187 U	0.0382 U	0.190 U	0.160 U	0.0355 U	0.0351 U
INDENO(1,2,3-C,D)PYRENE	0.5	-		**0.517** J	0.145 U	**2.87** U	0.405 J	0.238 J	0.0346 U	**0.634**	0.145 U	0.0322 U	0.0318 U
Metals													
ARSENIC	-	16		**19.5**	**27.5**	**33.3**	**23.3**	**16.5**	**18.6**	12.4	**22.1**	**16.8**	4.7
BARIUM	-	400		121	114	79.8	129	105	56.4	76.9	30.1	41.5	34.5
COPPER	-	270		101	67.1	65.4	64.7	116	14.9	57.4	31.2	13.3	9.45
LEAD	-	1000		226	166	927	847	65.2	14.6	44.3	256	13.2	10.9
MERCURY	-	2.8		0.13 J	0.0964 J	0.0759 J	0.0458 J	0.0445 J	0.0363 U	0.051 J	0.114	0.0344 U	0.0336 U

Notes:

- All results are reported in milligrams per kilogram (mg/kg)

- Analytical results of endpoint soil samples for volatile organic and semi volatile organic compounds are shown if they were in exceedance of the NYSDEC Final Commissioner's Policy CP-51/Soil Cleanup Guidance (issued October 21, 2010), Table 3 - Soil Cleanup Levels (SCLs) for Fuel Oil Contaminated Soil

- Analytical results of endpoint soil samples for metal compounds are shown if they were in exceedance of the NYSDEC 6 NYCRR Part 375 Environmental Remediation Program Soil Cleanup Levels (SCOs) for Commercial Use

ppm = parts per million

ft-bgs = feet below ground surface

Red Bold indicates concentration detected above either SCLs or SCOs

Green Bold indicates the laboratory methond detection limit exceeds the SCL

GREY/"U" = Analyzed for but not detected. Value represents the method detection limit

"J" = indicates value is estimated

Table 1: Soil Endpoint Analytical Results Summary Table
ExxonMobil Environmental Services Company
350/351 Franklin Street, Olean, NY

Chemical Name	CP-51 SCL	Part 375 Commercial Use SCO	Sample ID	END 446	END 447	END 448	END 451	END 460	END 473	END 474	END4 76	END 477	END 500	END 502
			Date	11/28/2016	11/28/2016	11/28/2016	11/28/2016	11/30/2016	12/5/2016	12/5/2016	12/5/2016	12/5/2016	11/30/2016	11/30/2016
			Soil Headspace (ppm)	839.2	701.6	888.1	171.4	629.9	12.5	123.4	55.4	17.5	0.4	0.9
			Sample Depth (ft-bgs)	12	10	10	8	8	6	5	5	3	7	4
Volatile Organic Compounds														
1,2,4-TRIMETHYLBENZENE	3.6	-		**7.27**	**18.7**	**42.5**	0.0505	**7.31**	0.725	0.126 J	0.878	0.245	0.000961 U	0.38
1,3,5-TRIMETHYLBENZENE	8.4	-		**13.1**	**12.2**	**12.2**	0.0109	3.59	0.364	0.0529 U	0.29	0.173 J	0.000721 U	0.287
BENZENE	0.06	-		0.000596 U	**0.242**	**0.21**	0.00906	0.0549	0.0155	0.0361	0.0297	0.0361	0.000644 U	0.00322
ETHYLBENZENE	1	-		0.000596 U	0.058	0.076 J	0.000585 U	0.0657 U	0.0548 J	0.0473 U	0.0695 U	0.0667 U	0.000644 U	0.000780 U
TOLUENE	0.7	-		0.000658 U	0.000653 U	0.0370 U	0.00516	0.359	0.0488 U	0.388	0.259	0.0828 J	0.000711 U	0.00386
XYLENES, TOTAL	0.26	-		0.192	**13.3**	**5.17**	0.0166	**4.1**	**0.715**	0.164 J	**1.86**	**0.62**	0.00118 U	0.0062 J
Semi-Volatile Organic Compounds														
BENZO(B)FLUORANTHENE	1	-		0.0311 U	0.0332 U	0.0310 U	0.0317 U	0.0335 U	0.168 U	0.0324 U	0.359 U	0.207 U	0.0340 U	0.167 U
CHRYSENE	1	-		0.0410 U	0.0439 U	0.0410 U	0.0419 U	0.221	0.222 U	0.0661 J	0.568 J	0.273 U	0.0450 U	0.221 U
DIBENZ(A,H)ANTHRACENE	0.33	-		0.0355 U	0.0380 U	0.0355 U	0.0362 U	0.0382 U	0.192 U	0.0370 U	0.410 U	0.236 U	0.0389 U	0.191 U
INDENO(1,2,3-C,D)PYRENE	0.5	-		0.0322 U	0.0344 U	0.0321 U	0.0328 U	0.0347 U	0.174 U	0.0336 U	0.372 U	0.214 U	0.0353 U	0.173 U
Metals														
ARSENIC	-	16		5.07	6.93	2.76	**30.4**	12.6	10.3	**19.6**	**19.4**	11.1	**20.1**	**30.4**
BARIUM	-	400		26.4	66.3	33.5	63.5	106	60.5	50.9	131	63.6	60.5	99.3
COPPER	-	270		15.9	42.9	38.5	92.4	88.2	26.5	30.2	41.3	41	28.1	129
LEAD	-	1000		13.2	13.9	11.2	18.8	23.5	28.3	33.2	121	125	581	198
MERCURY	-	2.8		0.0321 U	0.0360 U	0.0328 U	0.0327 U	0.0564 J	0.0352 U	0.0366 J	0.0515 J	0.13 J	0.0357 U	1.24

Notes:

- All results are reported in milligrams per kilogram (mg/kg)

- Analytical results of endpoint soil samples for volatile organic and semi volatile organic compounds are shown if they were in exceedance of the NYSDEC Final Commissioner's Policy CP-51/Soil Cleanup Guidance (issued October 21, 2010), Table 3 - Soil Cleanup Levels (SCLs) for Fuel Oil Contaminated Soil

- Analytical results of endpoint soil samples for metal compounds are shown if they were in exceedance of the NYSDEC 6 NYCRR Part 375 Environmental Remediation Program Soil Cleanup Levels (SCOs) for Commercial Use

ppm = parts per million

ft-bgs = feet below ground surface

Red Bold indicates concentration detected above either SCLs or SCOs

Green Bold indicates the laboratory methond detection limit exceeds the SCL

GREY/"U" = Analyzed for but not detected. Value represents the method detection limit

"J" = indicates value is estimated

Table 1: Soil Endpoint Analytical Results Summary Table
ExxonMobil Environmental Services Company
350/351 Franklin Street, Olean, NY

Chemical Name	CP-51 SCL	Part 375 Commercial Use SCO	Sample ID	END 503	END 504	END 505	END 506	END 507	END 508	END 509	TP 302	TP 311	TP 313
			Date	11/30/2016	11/30/2016	12/1/2016	12/1/2016	12/1/2016	12/1/2016	12/1/2016	11/15/2016	11/23/2016	11/28/2016
			Soil Headspace (ppm)	206.9	NA	0.9	1	57.9	81.1	372.4	0.4	11.8	NA
			Sample Depth (ft-bgs)	9	5	5	7	7	7	7	6-7	6-7	6-7
Volatile Organic Compounds													
1,2,4-TRIMETHYLBENZENE	3.6	-		0.142 J	0.643	0.305	0.0776 U	0.509	1.65	**28.3**	0.000855 U	0.00161 U	0.147 U
1,3,5-TRIMETHYLBENZENE	8.4	-		0.231	0.858	0.413	0.0993 J	0.453	0.998	8.08	0.00171 U	0.00321 U	0.112 U
BENZENE	0.06	-		0.0288	0.0141	**0.0876**	0.0105	**0.554**	**0.412**	**0.216**	0.00155 J	0.00374	0.0212
ETHYLBENZENE	1	-		0.0962 J	0.00209 J	0.00565	0.00341 J	0.267	0.392	**2.98**	0.000573 U	0.00108 U	0.00140 U
TOLUENE	0.7	-		0.279	0.0194	0.134	0.0143	0.509	0.575	**3.56**	0.000633 U	0.00119 U	0.00477
XYLENES, TOTAL	0.26	-		**0.449**	0.0234	0.0727	0.0278	**1.04**	**2.71**	**14.1**	0.00105 U	0.00197 U	0.012 J
Semi-Volatile Organic Compounds													
BENZO(B)FLUORANTHENE	1	-		0.186 U	0.163 U	0.173 U	0.181 U	0.188 U	0.252 J	0.33 J	0.0318 U	0.0822 J	0.271 U
CHRYSENE	1	-		0.245 U	0.215 U	0.228 U	0.240 U	0.83	0.241 U	0.775	0.0420 U	0.0869 J	0.358 U
DIBENZ(A,H)ANTHRACENE	0.33	-		0.212 U	0.186 U	**0.388** J	0.207 U	0.215 U	0.209 U	0.220 U	0.0363 U	0.0568 J	0.310 U
INDENO(1,2,3-C,D)PYRENE	0.5	-		0.192 U	0.169 U	0.298 J	0.188 U	0.195 U	0.207 J	0.23 J	0.0329 U	0.0573 J	0.281 U
Metals													
ARSENIC	-	16		13.4	**23.3**	**34.6**	**102**	**35.8**	**33.6**	**162**	**18.3**	**17.1**	**23.8**
BARIUM	-	400		69.6	98.1	128	123	83.4	138	**451**	43.9	79.5	107
COPPER	-	270		45.3	62.3	57.9	**632**	**325**	106	124	16.4	51	100
LEAD	-	1000		49.8	283	117	71.5	268	476	**1500**	16.7	124	271
MERCURY	-	2.8		0.0397 U	0.24	0.358	0.3576 U	0.128 J	**22.3**	0.152	0.0331 U	0.329	0.528

Notes:

- All results are reported in milligrams per kilogram (mg/kg)

- Analytical results of endpoint soil samples for volatile organic and semi volatile organic compounds are shown if they were in exceedance of the NYSDEC Final Commissioner's Policy CP-51/Soil Cleanup Guidance (issued October 21, 2010), Table 3 - Soil Cleanup Levels (SCLs) for Fuel Oil Contaminated Soil

- Analytical results of endpoint soil samples for metal compounds are shown if they were in exceedance of the NYSDEC 6 NYCRR Part 375 Environmental Remediation Program Soil Cleanup Levels (SCOs) for Commercial Use

ppm = parts per million

ft-bgs = feet below ground surface

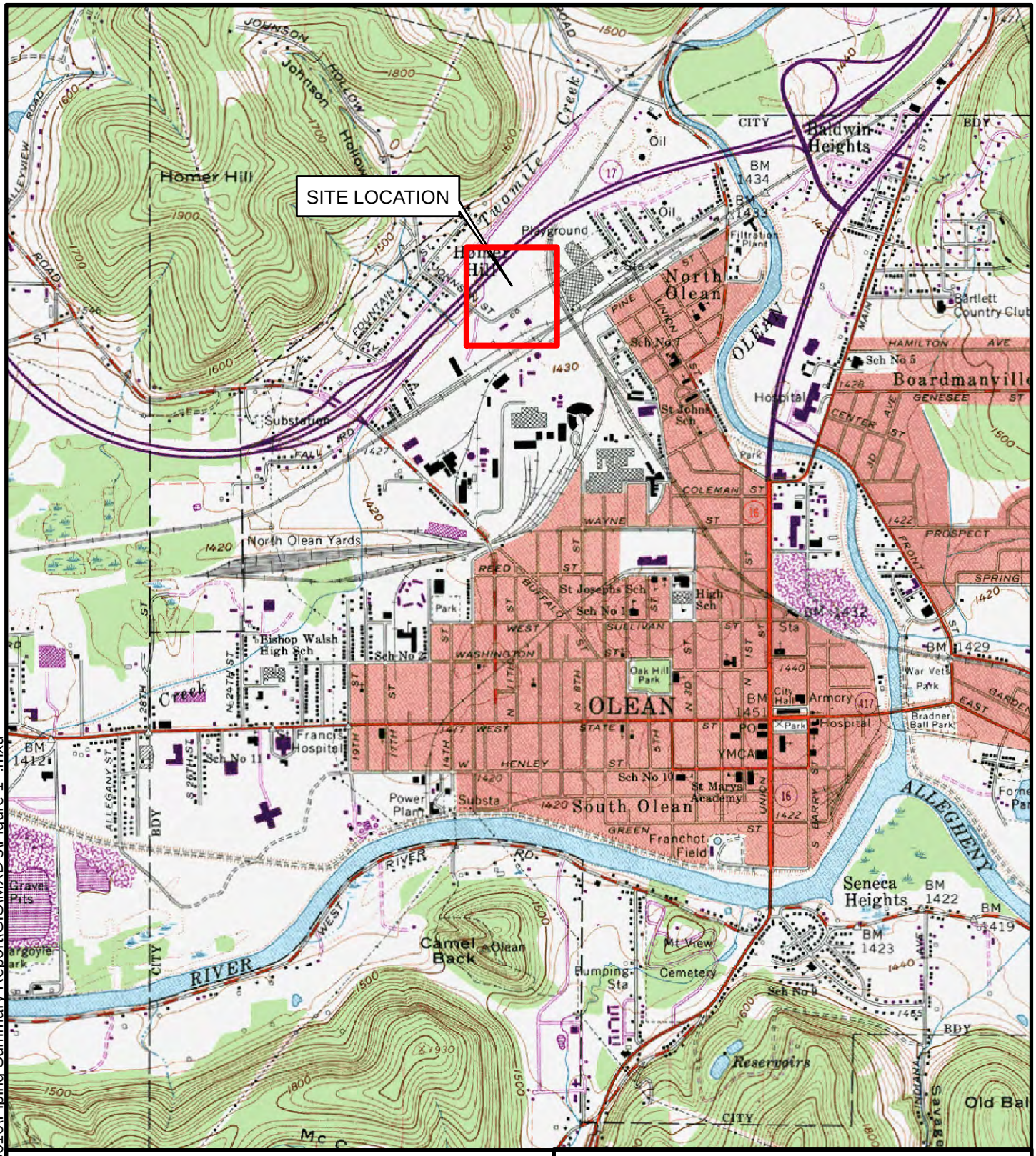
Red Bold indicates concentration detected above either SCLs or SCOs

Green Bold indicates the laboratory methond detection limit exceeds the SCL

GREY/"U" = Analyzed for but not detected. Value represents the method detection limit

"J" = indicates value is estimated

FIGURES



QUADRANGLE LOCATION

SOURCE:
USGS: 1980, Olean, New York
7.5 Minute Topographic Quadrangle
Contour Interval 3 Meters

Title:

SITE LOCATION MAP

350 & 351 Franklin Street, Olean, NY
NYSDEC Spill No. 1300859

Prepared For:

ExxonMobil Environmental Services

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled By: AM		Date: 5/4/2017		FIGURE
Prepared By: AM		Scale: 1 : 24,000		1
Project Mgr.: MC		Office: MA		
File No.: 102		Project: M010		

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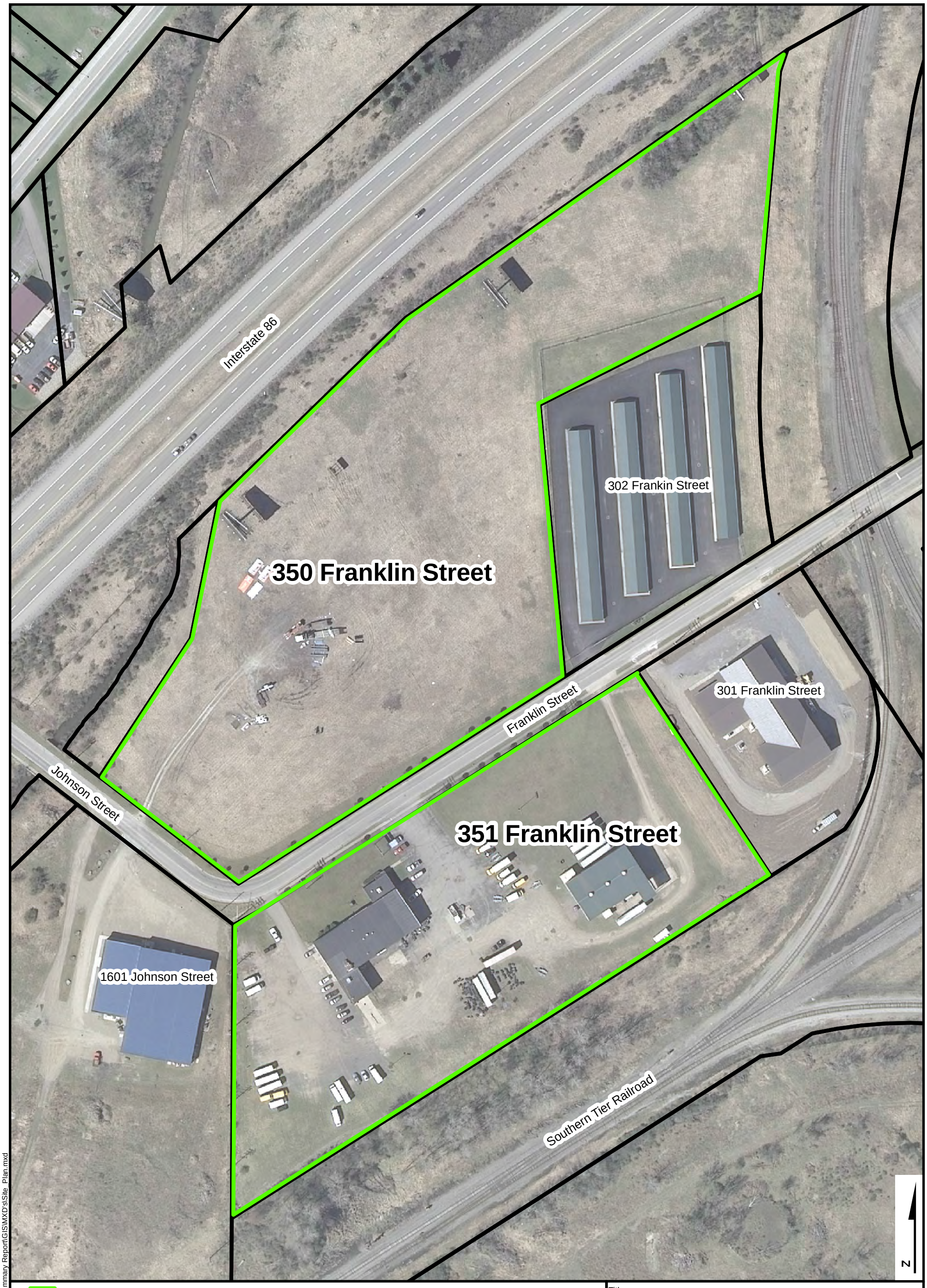

Site Boundary

Property Bounday

SOURCES:
- Aerial Photograph is a 2012 USGS high-resolution orthophoto obtained from the USGS Earth Resources Observation and Science Center website.
- Property Boundary/Site Boundary and Olean Parcel Boundaries are obtained from the Cattaragus County Office of Real Property website.

NOTES:
- All features shown are approximate
- Locations are derived from high precision GPS data

0 125 250 Feet

Title:

SITE PLAN
350 & 351 Franklin Street

350 & 351 Franklin Street, Olean, NY
NYSDEC Spill No. 1300859

Prepared For:
ExxonMobil Environmental Services Company

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: AM	Date: 5/5/2017	FIGURE 2
Prepared by: AM	Scale: AS SHOWN	
Project Mgr: MC	Office: MA	
File No: 102	Project: 0172.0210M0010	

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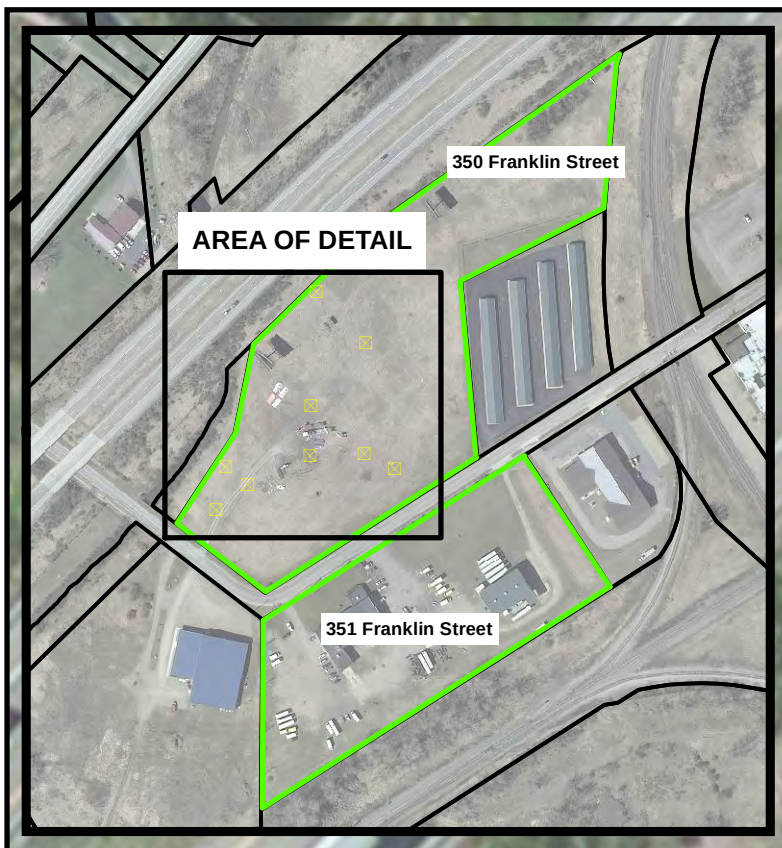

TP-187
(4-10)

TP-182

TP-185

TP-183

TP-180
(4-9.5)

TP-186
(3.5-7.5)

TP-181

TP-188
(10-12)

TP-184
(7-10)

N

Test Pit Locations
(GCM Interval)

Site Boundary

Property Boundary

SOURCES:
- Aerial Photograph is a 2012 USGS high-resolution orthophoto obtained from the USGS Earth Resources Observation and Science Center website.
- Property Boundary/Site Boundary and Olean Parcel Boundaries are obtained from the Cattaragus County Office of Real Property website.

NOTES:
- GCM = Grossly Contaminated Material
- All features shown are approximate
- Locations are derived from high precision GPS data
- GCM Interval indictaed in feet below ground surface

0 50 100
Feet

Title:

TEST PIT LOCATIONS
November 2016

350 & 351 Franklin Street, Olean, NY
NYSDEC Spill No. 1300859

Prepared For:
ExxonMobil Environmental Services Company

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: AM	Date: 5/8/2017	FIGURE 3
Prepared by: AM	Scale: AS SHOWN	
Project Mgr: MC	Office: MA	
File No: 102	Project: 0172.0210M0010	

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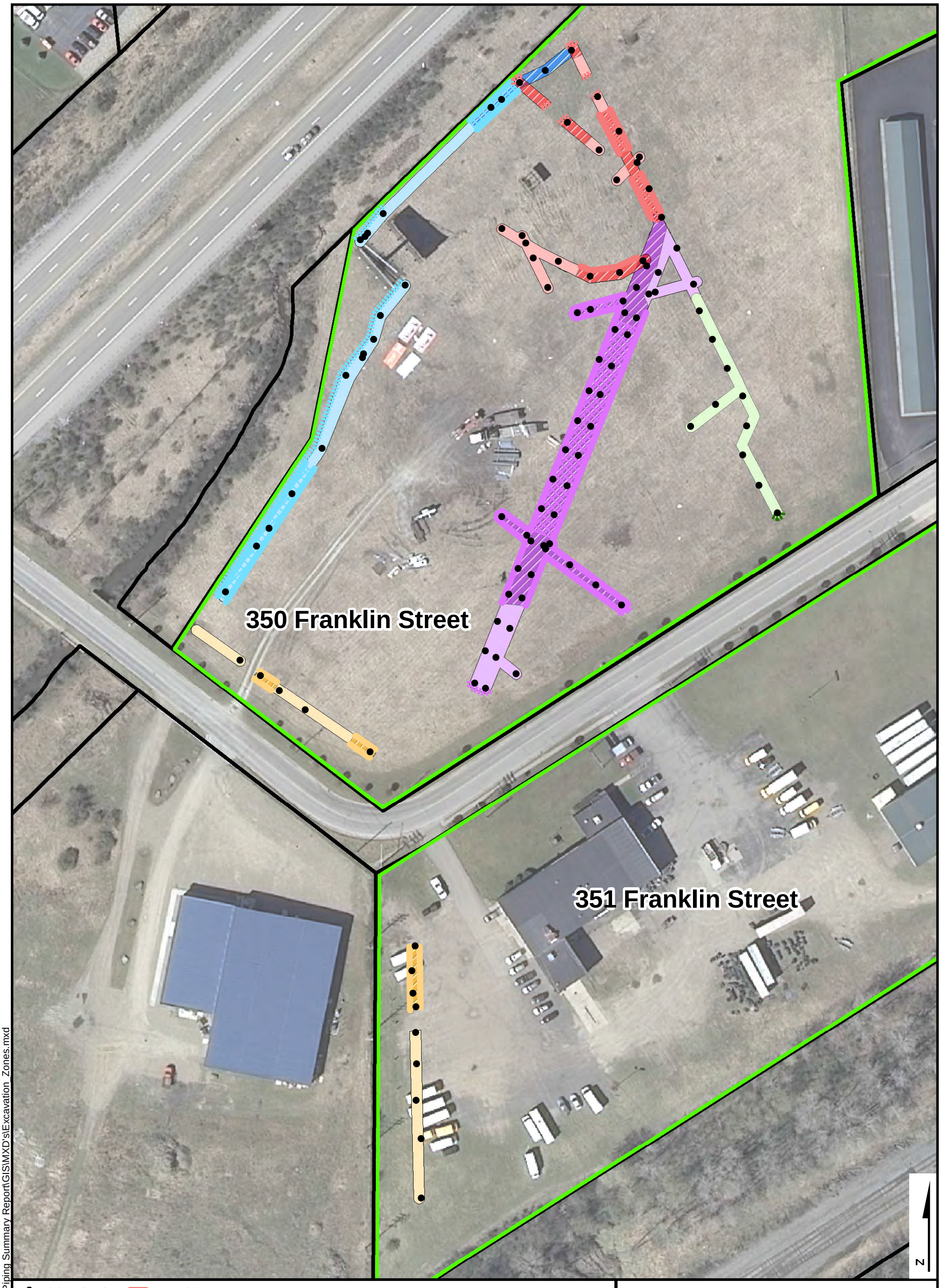

Endpoint Sample Locations
Excavation Zone 1
Excavation Zone 2
Excavation Zone 3
Excavation Zone 4
Excavation Zone 5
Zone 1 GCM Removal
Zone 3 GCM Removal
Zone 4 GCM Removal
Zone 5 GCM Removal
Zone 1 Capping or Abandoning
Zone 2 Capping
Zone 3 Capping
Zone 4 Capping or Abandoning
Zone 1 Lateral GCM *
Zone 3 Lateral GCM *
Zone 4 Lateral GCM *
Zone 5 Lateral GCM *
Zone 1 Vertical GCM **
Zone 3 Vertical GCM **
Zone 4 Vertical GCM **
Site Boundary
Property Boundary

SOURCES:
- Aerial Photograph is a 2012 USGS high-resolution orthophoto obtained from the USGS Earth Resources Observation and Science Center website.
- Property Boundaries are obtained from the Cattaragus County Office of Real Property website.

NOTES:
- GCM = Grossly Contaminated Material
- All features shown are approximate
- Locations are derived from high precision GPS data
* During field observations, GCM was noted to extend laterally from the excavation area.
** During field observations, GCM was noted to extend vertically beneath the extent of the excavation area.

0 80 160 Feet

Title:

EXCAVATION ZONES
November and December 2016

350 & 351 Franklin Street, Olean, NY
NYSDEC Spill No. 1300859

Prepared For:
ExxonMobil Environmental Services Company

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: AM	Date: 5/12/2017	FIGURE
Prepared by: AM	Scale: AS SHOWN	4
Project Mgr: MC	Office: MA	
File No: 102	Project: 0172.0210M0010	

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END 404

END-404	mg/kg	Depth	Max PID
Arsenic	23.3	9	1.6
Chrysene	1.67		
Xylenes	1.56		

END 402

END 407

END 405

END 421

END-406	mg/kg	Depth	Max PID
Arsenic	16.5	6	144.6

END 406

END 408

END 420

END 409

END 419

END-474	mg/kg	Depth	Max PID
Arsenic	19.6	5	12.5

END 474

END-477	mg/kg	Depth	Max PID
Xylenes	0.62	3	17.5

END 477

END 473

END-473	mg/kg	Depth	Max PID
Xylenes	0.715	6	12.5

END 476

END 469

END 472

END 471

END 470

END-476	mg/kg	Depth	Max PID
Arsenic	19.4	5	55.4
Xylenes	1.86		

END 475

N

- Endpoint Sample Location
- Endpoint Sample Location (within adjacent Excavation Zone)
- Extent of Excavation
- Extent of GCM Removal
- Lateral GCM Remaining *
- Vertical GCM Remaining **
- Pipe Capping or Abandonment
- Active Electrical Utility
- Site Boundary
- Property Boundary

SOURCES:
- Aerial Photograph is a 2012 USGS high-resolution orthophoto obtained from the USGS Earth Resources Observation and Science Center website.
- Property Boundaries are obtained from the Cattaragus County Office of Real Property website.

NOTES:
- GCM = Grossly Contaminated Material
- PID = Photoionization Detector
- mg/kg = milligram per kilogram
- NYSDEC = New York State Department of Environmental Conservation
- All features shown are approximate
- Locations are derived from high precision GPS data
* During field observations, GCM was noted to extend laterally from the excavation area.
** During field observations, GCM was noted to extend vertically beneath the extent of the excavation area. Depth of GCM remaining generally correlate to depths of endpoint sample locations indicated in the data boxes.
- Depth represented in feet below ground surface
- Soil headspace screening ("Max PID") concentrations are in parts per million as recorded using a PID
- Analytical results of endpoint soil samples for volatile organic and semi volatile organic compounds are shown if they were in exceedance of the NYSDEC Final Commissioner's Policy CP-51/Soil Cleanup Guidance (issued October 21, 2010), Table 3 - Soil Cleanup Levels (SCLs) for Fuel Oil Contaminated Soil
- Analytical results of endpoint soil samples for metal compounds are shown if they were in exceedance of the NYSDEC 6 NYCRR Part 375 Environmental Remediation Program Soil Cleanup Levels (SCOs) for Commercial Use
- A 10 foot exclusion zone from active utilites was implemented during excavation activities

0 10 20 Feet

Title:

EXCAVATION ZONE 1

350 & 351 Franklin Street Olean, NY
NYSDEC Spill No. 1300859

Prepared For:
ExxonMobil Environmental Services Company

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: AM	Date: 5/12/2017	FIGURE 5
Prepared by: AM	Scale: AS SHOWN	
Project Mgr: MC	Office: MA	
File No: 102	Project: 0172.0210M0010	

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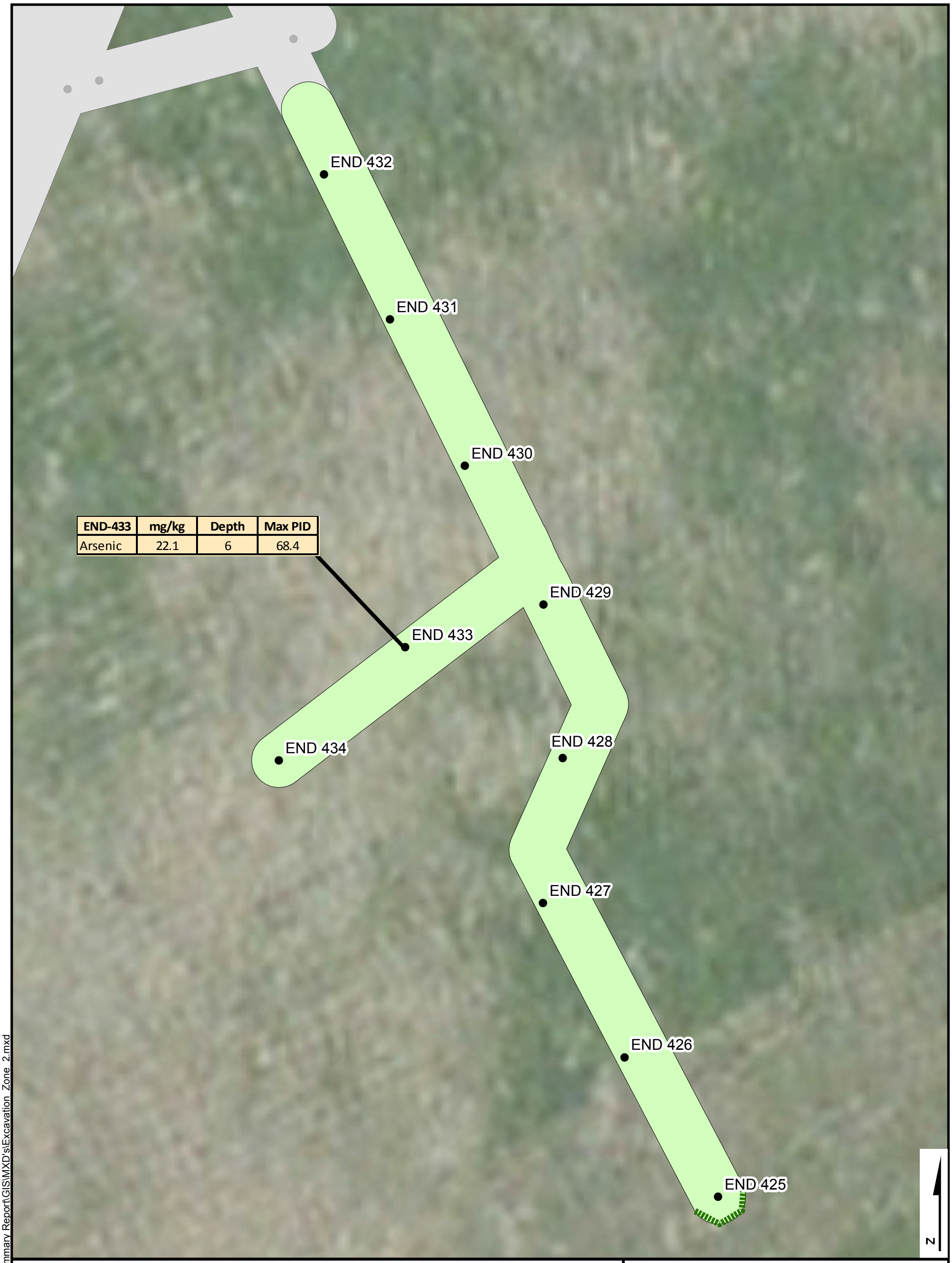

END-433	mg/kg	Depth	Max PID
Arsenic	22.1	6	68.4

- Endpoint Sample Locations
- Endpoint Sample Locations (within adjacent Excavation Zone)
- Extent of Excavation
- Pipe Capping

SOURCES:
- Aerial Photograph is a 2012 USGS high-resolution orthophoto obtained from the USGS Earth Resources Observation and Science Center website.
- Property Boundaries are obtained from the Cattaragus County Office of Real Property website.

NOTES:
- GCM = Grossly Contaminated Material
- PID = Photoionization Detector
- mg/kg = milligram per kilogram
- NYSDEC = New York State Department of Environmental Conservation
- All features shown are approximate
- Locations are derived from high precision GPS data
- Depth represented in feet below ground surface
- Soil headspace screening ("Max PID") concentrations are in parts per million as recorded using a PID
- Analytical results of endpoint soil samples for volatile organic and semi volatile organic compounds are shown if they were in exceedance of the NYSDEC Final Commissioner's Policy CP-51/Soil Cleanup Guidance (issued October 21, 2010), Table 3 - Soil Cleanup Levels (SCLs) for Fuel Oil Contaminated Soil
- Analytical results of endpoint soil samples for metal compounds are shown if they were in exceedance of the NYSDEC 6 NYCRR Part 375 Environmental Remediation Program Soil Cleanup Levels (SCOs) for Commercial Use
- A 10 foot exclusion zone from active utilites was implemented during excavation activities

0 10 20 Feet

Title:

EXCAVATION ZONE 2

350 & 351 Franklin Street Olean, NY
NYSDEC Spill No. 1300859

Prepared For:
ExxonMobil Environmental Services Company

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: AM	Date: 5/8/2017	FIGURE
Prepared by: AM	Scale: AS SHOWN	6
Project Mgr: MC	Office: MA	
File No: 102	Project: 0172.0210M0010	

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END-422	mg/kg	Depth	Max PID
Benzo(b)fluoranthene	1.15	12	0.4
Indeno(1,2,3-c,d)pyrene	0.517		

END-415	mg/kg	Depth	Max PID
Arsenic	18.6	7	17.6

END-438	mg/kg	Depth	Max PID
Arsenic	16.8	8	555.6

END-445	mg/kg	Depth	Max PID
1,2,4 Trimethylbenzene	9.04	12	752.3

END-447	mg/kg	Depth	Max PID
1,2,4 Trimethylbenzene	7.24	12	701.6
1,2,5 Trimethylbenzene	13.1		
Benzene	0.242		
Xylenes	13.3		

END-446	mg/kg	Depth	Max PID
1,2,4 Trimethylbenzene	7.24	12	839.2
1,2,5 Trimethylbenzene	13.1		

END-448	mg/kg	Depth	Max PID
1,2,4 Trimethylbenzene	42.5	10	888.1
1,2,5 Trimethylbenzene	12.2		
Benzene	0.21		
Xylenes	5.17		

END-451	mg/kg	Depth	Max PID
Arsenic	30.4	8	171.4

END-460	mg/kg	Depth	Max PID
1,2,4-Trimethylbenzene	7.31	8	629.9
Xylenes	4.1		

END 418
END 417
END 410
END 411
END 416
END 412
END 422
END 423
END 424
END 413
END 414
END 478
END 415
END 436
END 435
END 437
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END 459
END 458
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END 457
END 451
END 456
END 452
END 455
END 460
END 454
END 461
END 462
END 463
END 464
END 465
END 468
END 466
END 467

N

Endpoint Sample Locations
Endpoint Sample Locations (within adjacent Excavation Zone)
Extent of Excavation
Extent of GCM Removal
Lateral GCM Remaining *
Vertical GCM Remaining **
Pipe Capping
Site Boundary
Property Boundary

SOURCES:
- Aerial Photograph is a 2012 USGS high-resolution orthophoto obtained from the USGS Earth Resources Observation and Science Center website.
- Property Boundaries are obtained from the Cattaragus County Office of Real Property website.

NOTES:
- GCM = Grossly Contaminated Material
- PID = Photoionization Detector
- mg/kg = milligram per kilogram
- NYSDEC = New York State Department of Environmental Conservation
- All features shown are approximate
- Locations are derived from high precision GPS data
* During field observations, GCM was noted to extend laterally from the excavation area.
** During field observations, GCM was noted to extend vertically beneath the extent of the excavation area. Depth of GCM remaining generally correlate to depths of endpoint sample locations indicated in the data boxes.
- Depth represented in feet below ground surface
- Soil headspace screening ("Max PID") concentrations are in parts per million as recorded using a PID
- Analytical results of endpoint soil samples for volatile organic and semi volatile organic compounds are shown if they were in exceedance of the NYSDEC Final Commissioner's Policy CP-51/Soil Cleanup Guidance (issued October 21, 2010), Table 3 - Soil Cleanup Levels (SCLs) for Fuel Oil Contaminated Soil
- Analytical results of endpoint soil samples for metal compounds are shown if they were in exceedance of the NYSDEC 6 NYCRR Part 375 Environmental Remediation Program Soil Cleanup Levels (SCOs) for Commercial Use
- A 10 foot exclusion zone from active utilites was implemented during excavation activities

0 20 40 Feet

Title:

EXCAVATION ZONE 3

350 & 351 Franklin Street Olean, NY
NYSDEC Spill No. 1300859

Prepared For:
ExxonMobil Environmental Services Company

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: AM	Date: 5/12/2017	FIGURE 7
Prepared by: AM	Scale: AS SHOWN	
Project Mgr: MC	Office: MA	
File No: 102	Project: 0172.0210M0010	

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END-403	mg/kg	Depth	Max PID
Arsenic	33.3	1	0.2

END 403

END-400	mg/kg	Depth	Max PID
Arsenic	19.5	10	62.7
Indeno(1,2,3-c,d)pyrene	0.517		

END 400

END 401

END-500	mg/kg	Depth	Max PID
Arsenic	20.1	7	0.4

END-502	mg/kg	Depth	Max PID
Arsenic	30.4	4	0.9

END-401	mg/kg	Depth	Max PID
Arsenic	27.5	4	0.6

END-500

END-501

END-501a

END-502

END-513

END-504	mg/kg	Depth	Max PID
Arsenic	23.3	5	NA

END-503	mg/kg	Depth	Max PID
Xylenes	0.449	9	206.9

END-503

END-504

END-505

END-506	mg/kg	Depth	Max PID
Arsenic	102	7	1
Copper	632		

END-505	mg/kg	Depth	Max PID
Arsenic	34.6	5	0.9
Dibenz(a,h)anthracene	0.388		
Benzene	0.088		

END-506

END-507

END-507	mg/kg	Depth	Max PID
Arsenic	35.8	7	57.9
Benzene	0.554		
Copper	325		
Xylenes	1.04		

END-508

END-508	mg/kg	Depth	Max PID
Arsenic	33.6	7	81.1
Benzene	0.412		
Mercury	22.3		
Xylenes	2.71		

END-509

END-510

END-511

END-512

END-509	mg/kg	Depth	Max PID
Arsenic	162	7	372.4
Barium	451		
Benzene	0.216		
Ethylbenzene	2.98		
Lead	1500		
Toluene	3.56		
Xylenes	14.1		
1,2,4-Trimethylbenzene	28.3		

N

- Endpoint Sample Locations
- Endpoint Sample Locations (within adjacent Excavation Zone)
- Extent of Excavation
- Extent of GCM Removal
- Lateral GCM Remaining *
- Vertical GCM Remaining **
- Pipe Capping or Abandonment
- Active Electrical Utility
- Site Boundary
- Property Bounday

SOURCES:
- Aerial Photograph is a 2012 USGS high-resolution orthophoto obtained from the USGS Earth Resources Observation and Science Center website.
- Property Boundaries are obtained from the Cattaragus County Office of Real Property website.

NOTES:
- GCM = Grossly Contaminated Material
- PID = Photoionization Detector
- mg/kg = milligram per kilogram
- NYSDEC = New York State Department of Environmental Conservation
- All features shown are approximate
- Locations are derived from high precision GPS data
* During field observations, GCM was noted to extend laterally from the excavation area.
** During field observations, GCM was noted to extend vertically beneath the extent of the excavation area. Depth of GCM remaining generally correlate to depths of endpoint sample locations indicated in the data boxes.
- Depth represented in feet below ground surface
- Soil headspace screening ("Max PID") concentrations are in parts per million as recorded using a PID
- Analytical results of endpoint soil samples for volatile organic and semi volatile organic compounds are shown if they were in exceedance of the NYSDEC Final Commissioner's Policy CP-51/Soil Cleanup Guidance (issued October 21, 2010), Table 3 - Soil Cleanup Levels (SCLs) for Fuel Oil Contaminated Soil
- Analytical results of endpoint soil samples for metal compounds are shown if they were in exceedance of the NYSDEC 6 NYCRR Part 375 Environmental Remediation Program Soil Cleanup Levels (SCOs) for Commercial Use
- A 10 foot exclusion zone from active utilites was implemented during excavation activities

0 25 50 Feet

Title:

EXCAVATION ZONE 4

350 & 351 Franklin Street, Olean, NY
NYSDEC Spill No. 1300859

Prepared For:
ExxonMobil Environmental Services Company

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: AM	Date: 5/8/2017	FIGURE	
Prepared by: AM	Scale: AS SHOWN	8	
Project Mgr: MC	Office: MA		
File No: 102	Project: 0172.0210M0010		

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END-313	mg/kg	Depth	Max PID
Arsenic	23.8	7	NA

TP-311	mg/kg	Depth	Max PID
Arsenic	11.8	7	11.8

TP-302	mg/kg	Depth	Max PID
Arsenic	18.3	8	0.4

TP-313
TP-312
TP-311
TP-310
TP-309
TP-308
TP-307
TP-306
TP-305
TP-304
TP-303
TP-302
TP-300
TP-301

N

Endpoint Sample Locations
Endpoint Sample Locations (within adjacent Excavation Zone)
Extent of Excavation
Extent of GCM Removal
Lateral GCM Remaining *
Active Electric Utility
Active Gas Utility
Active Water Utility
Site Boundary
Property Boundary

SOURCES:
- Aerial Photograph is a 2012 USGS high-resolution orthophoto obtained from the USGS Earth Resources Observation and Science Center website.
- Property Boundaries are obtained from the Cattaragus County Office of Real Property website.

NOTES:
- GCM = Grossly Contaminated Material
- PID = Photoionization Detector
- mg/kg = milligram per kilogram
- NYSDEC = New York State Department of Environmental Conservation
- All features shown are approximate
- Locations are derived from high precision GPS data
* During field observations, GCM was noted to extend laterally from the excavation area.
** During field observations, GCM was noted to extend vertically beneath the extent of the excavation area. Depth of GCM remaining generally correlate to depths of endpoint sample locations indicated in the data boxes.
- Depth represented in feet below ground surface
- Soil headspace screening ("Max PID") concentrations are in parts per million as recorded using a PID
- Analytical results of endpoint soil samples for volatile organic and semi volatile organic compounds are shown if they were in exceedance of the NYSDEC Final Commissioner's Policy CP-51/Soil Cleanup Guidance (issued October 21, 2010), Table 3 - Soil Cleanup Levels (SCLs) for Fuel Oil Contaminated Soil
- Analytical results of endpoint soil samples for metal compounds are shown if they were in exceedance of the NYSDEC 6 NYCRR Part 375 Environmental Remediation Program Soil Cleanup Levels (SCOs) for Commercial Use
- A 10 foot exclusion zone from active utilites was implemented during excavation activities

0 20 40 Feet

Title:

EXCAVATION ZONE 5

301 & 351 Franklin Street, Olean, NY
NYSDEC Spill No. 1300859

Prepared For:
ExxonMobil Environmental Services Company

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: AM	Date: 5/8/2017	FIGURE
Prepared by: AM	Scale: AS SHOWN	9
Project Mgr: MC	Office: MA	
File No: 102	Project: 0172.0210M0010	

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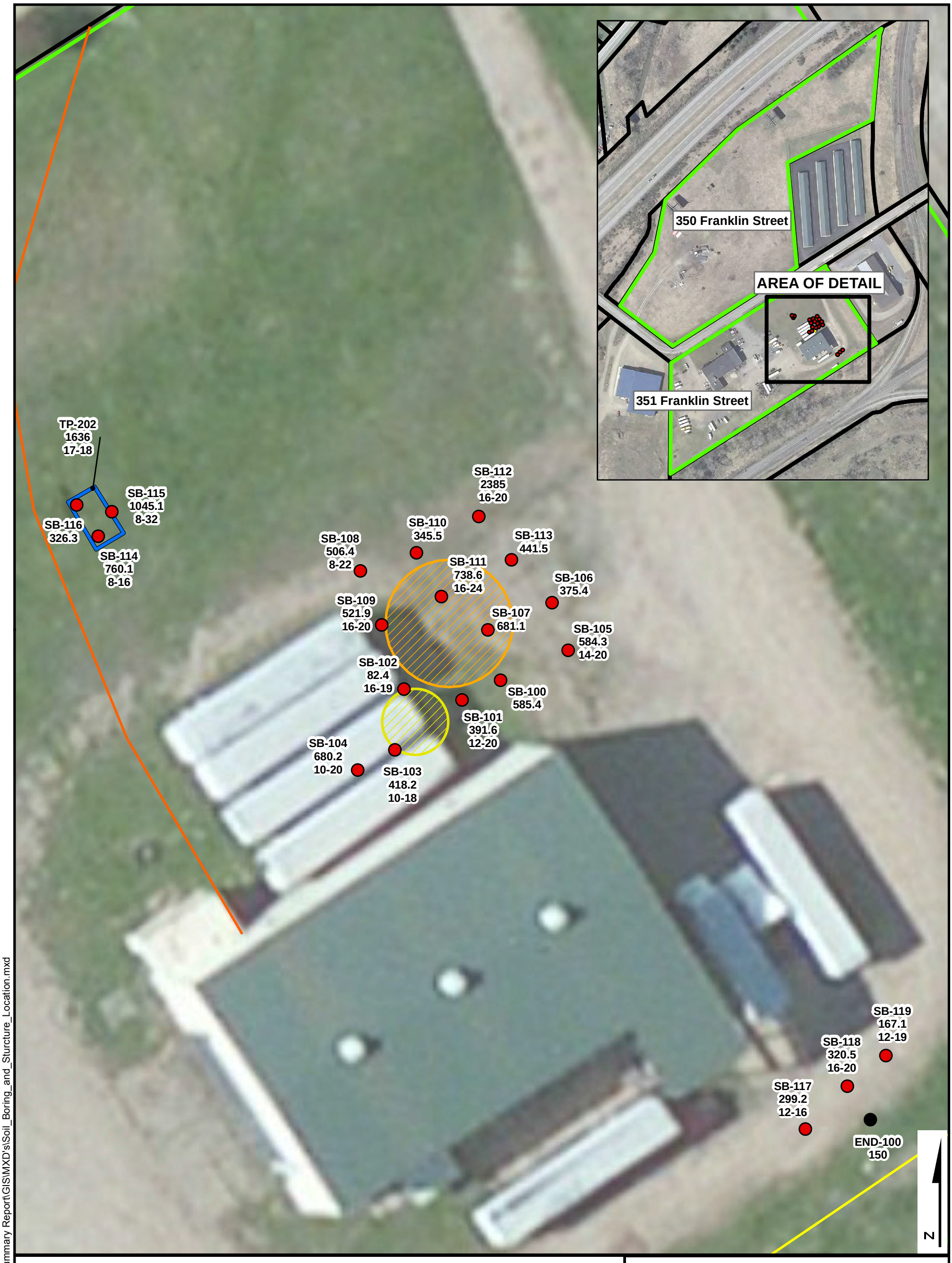

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- Soil Boring Location ID (Max PID) (GCM Interval)
- Prior Endpoint Location (Max PID)
- Prior Test Pit Location (Max PID) (GCM Interval)
- Subsurface Metal Structure #1
- Subsurface Metal Structure #2
- Active Telecommunication Utility
- Active Gas Utility
- Site Boundary
- Property Bounday

SOURCES:
- Aerial Photograph is a 2012 USGS high-resolution orthophoto obtained from the USGS Earth Resources Observation and Science Center website.
- Property Boundaries are obtained from the Cattaragus County Office of Real Property website.

NOTES:
- GCM = Grossly Contaminated Material
- PID = Photoionization Detector
- mg/kg = milligram per kilogram
- NYSDEC = New York State Department of Environmental Conservation
- All features shown are approximate
- Locations are derived from high precision GPS data
- GCM Interval depth represented in feet below ground surface
- Soil headspace screening (“Max PID”) concentrations are in parts per million as recorded using a PID
- A 10 foot exlcusion zone from active utilities was implemented during soil boring activities

0 10 20 Feet

Title:

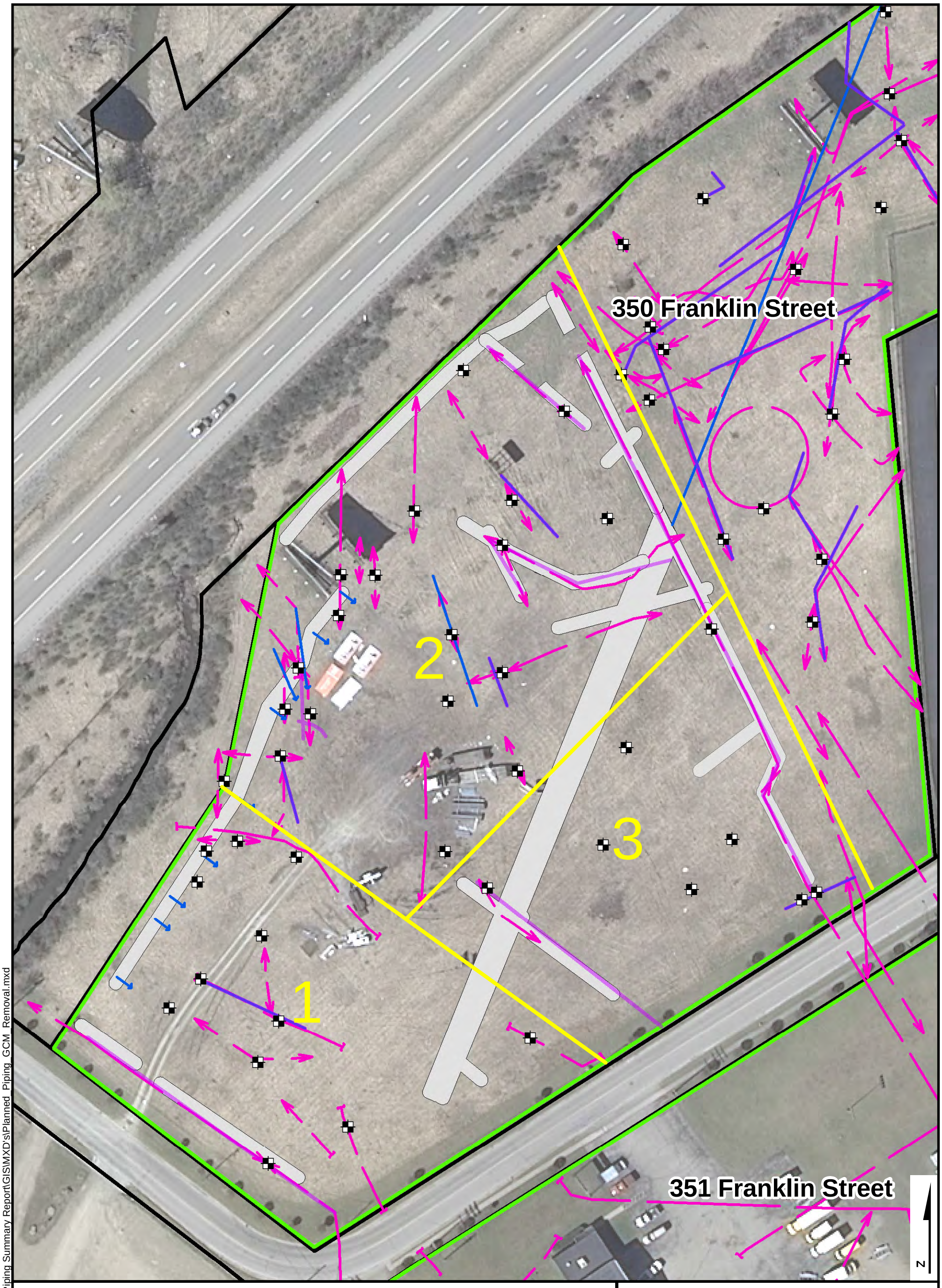
SOIL BORING AND SUBSURFACE STRUCTURE LOCATION MAP

350 & 351 Franklin Street Olean, NY
NYSDEC Spill No. 1300859

Prepared For:
ExxonMobil Environmental Services Company

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: AM	Date: 5/8/2017	FIGURE
Prepared by: AM	Scale: AS SHOWN	10
Project Mgr: MC	Office: MA	
File No: 102	Project: 0172.0210M0010	



Former Test Pit Location

Linear Anomaly Identified by GPR

Existing Piping Visually Confirmed

Extent of Previous Excavation and Piping Removal

Site Boundary

Property Boundary

SOURCES:
- Aerial Photograph is a 2012 USGS high-resolution orthophoto obtained from the USGS Earth Resources Observation and Science Center website.
- Property Boundaries are obtained from the Cattaragus County Office of Real Property website.
- Geophysical data, Interpretation and survey results provided by NAEVA Geophysics, 2012.

NOTES:
- GPR = Ground Penetrating Radar
- All features shown are approximate
- Locations are derived from high precision GPS data

0 60 120 Feet

Title:

2017 PLANNED PIPING EXCAVATION AREAS

350 & 351 Franklin Street, Olean, NY
NYSDEC Spill No. 1300859

Prepared For:
ExxonMobil Environmental Services Company

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: AM	Date: 5/19/2017	FIGURE 11
Prepared by: AM	Scale: AS SHOWN	
Project Mgr: MC	Office: MA	
File No: 102	Project: 0172.0210M0010	

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APPENDICES

APPENDIX A

Test Pit and Soil Boring Logs

LOG OF TEST PIT TP-180

Date Excavated: 11/18/2016 Logged by: A.Marsocci

Equipment: 200C LC Excavator Surface Elevation(ft): Not Measured

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE	PID READING	REMARKS
		Light brown fine to coarse SAND, some Silt and Gravel (Fill); dry.			
		Grey, coarse SILTY GRAVEL (Fill); dry.			
		Dark grey fine to coarse SAND, some Gravel and Cobble; moist.			
5		Grey to silver fine to coarse SAND and GRAVEL; wet; petroleum globules; petroleum odor.		364.2	End of test pit at 9.5 ft bgs.

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November Test Pitting
350 Franklin Street

0172.0210M010

Note - Mention of petroleum odor/globules/sheen is based on observations by person(s) logging the soil samples collected from the borehole. Where not noted, no petroleum odor/globules/sheen was observed.

LOG OF TEST PIT TP-181

Date Excavated: 11/18/2016 Logged by: A.Marsocci

Equipment: 200C LC Excavator Surface Elevation(ft): Not Measured

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE	PID READING	REMARKS
		Light brown fine to coarse SAND, some Silt, trace gravel (Fill); dry.			
		Grey, coarse SILTY GRAVEL (Fill); dry.			
		Dark grey to black SILTY GRAVEL (Fill); moist.			
		Brown to grey fine to coarse SAND and coarse GRAVEL (Fill); moist.		24.4	
5					
10					End of test pit at 15 ft bgs.

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November Test Pitting
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0172.0210M010

Note - Mention of petroleum odor/globules/sheen is based on observations by person(s) logging the soil samples collected from the borehole. Where not noted, no petroleum odor/globules/sheen was observed.

LOG OF TEST PIT TP-182

Date Excavated: 11/10/2016 Logged by: A. Marsocci

Equipment: 200C LC Excavator Surface Elevation(ft): Not Measured

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE	PID READING	REMARKS
		Brown fine to coarse SAND, some Silt and Gravel (Fill); dry.			
		Grey coarse SILTY GRAVEL (Fill); dry.		0.3	
5		Grey coarse SILTY GRAVEL (Fill); wet; petroleum sheen.		0.4	
				1.7	
				1.1	End of test pit at 6 ft bgs.

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350 Franklin Street

0172.0210M010

Note - Mention of petroleum odor/globules/sheen is based on observations by person(s) logging the soil samples collected from the borehole. Where not noted, no petroleum odor/globules/sheen was observed.

LOG OF TEST PIT TP-183

Date Excavated: 11/23/2016 Logged by: A.Marsocci

Equipment: 200C LC Excavator Surface Elevation(ft): Not Measured

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE	PID READING	REMARKS
		Light brown fine to coarse SAND, some Silt and Gravel (Fill); dry.			
		Brown and grey coarse SANDY GRAVEL (Fill); moist.			
		Black coarse SANDY GRAVEL; moist; petroleoum odor.			
5					
10				159.3	End of test pit at 12 ft bgs.

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November Test Pitting
350 Franklin Street

0172.0210M010

Note - Mention of petroleum odor/globules/sheen is based on observations by person(s) logging the soil samples collected from the borehole. Where not noted, no petroleum odor/globules/sheen was observed.

LOG OF TEST PIT TP-184

Date Excavated: 11/28/2016 Logged by: Grace van der Ven

Equipment: 200C LC Excavator Surface Elevation(ft): Not Measured

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE	PID READING	REMARKS
		Brown fine to coarse SAND, some Silt and Gravel (Fill); dry.			
		Light grey fine to medium GRAVEL, some coarse shaley limestone Cobbles, poorly graded fine to coarse Sand and Silt; moist.			
5		Dark brown well graded fine to medium SAND, some Gravel, red Brick fragments; moist; slight petroleum odor.			
		Tan to grey SILTY CLAY, some well graded fine to medium Sand; very moist; petroleum odor.		119.6	End of test pit at 10 ft bgs.

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November Test Pitting
350 Franklin Street

0172.0210M010

Note - Mention of petroleum odor/globules/sheen is based on observations by person(s) logging the soil samples collected from the borehole. Where not noted, no petroleum odor/globules/sheen was observed.

LOG OF TEST PIT TP-185

Date Excavated: 11/18/2016 Logged by: A.Marsocci

Equipment: 200C LC Excavator Surface Elevation(ft): Not Measured

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE	PID READING	REMARKS
		Brown fine to coarse SAND, some Silt and Gravel (Fill); dry.			
		Grey coarse GRAVEL (Fill); dry.			
		Dark grey to black fine to coarse SAND, some Gravel (Fill); dry.			
5		Black coarse SAND, some Gravel (Fill); wet.		68.7	End of test pit at 7.5 ft bgs.

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0172.0210M010

Note - Mention of petroleum odor/globules/sheen is based on observations by person(s) logging the soil samples collected from the borehole. Where not noted, no petroleum odor/globules/sheen was observed.

LOG OF TEST PIT TP-186

Date Excavated: 11/23/2016 Logged by: A.Marsocci

Equipment: 200C LC Excavator Surface Elevation(ft): Not Measured

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE	PID READING	REMARKS
		Light brown fine to coarse SAND, some Silt and Gravel (Fill); dry.			
		Brown coarse SAND, some shale Cobble (Fill); dry.			
		Black coarse SAND; brick and concrete debris; dry; petroleum globules; petroleum odor.			
5				1462	End of test pit at 7.5 ft bgs.

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350 Franklin Street

0172.0210M010

Note - Mention of petroleum odor/globules/sheen is based on observations by person(s) logging the soil samples collected from the borehole. Where not noted, no petroleum odor/globules/sheen was observed.

LOG OF TEST PIT TP-187

Date Excavated: 11/9/2016 Logged by: A.Marsocci

Equipment: 200C LC Excavator Surface Elevation(ft): Not Measured

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE	PID READING	REMARKS
		Brown fine to coarse SAND, some Silt and Gravel (Fill); dry; multiple pipe fragments.			
		Grey coarse GRAVEL (Fill); dry; metal debris.			
5		Grey coarse SILTY GRAVEL (Fill); damp; petroleum globules; petroleum odor.		400.2	End of test pit at 10 ft bgs.

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November Test Pitting
350 Franklin Street

0172.0210M010

Note - Mention of petroleum odor/globules/sheen is based on observations by person(s) logging the soil samples collected from the borehole. Where not noted, no petroleum odor/globules/sheen was observed.

LOG OF TEST PIT TP-188

Date Excavated: 11/28/2016 Logged by: Grace van der Ven

Equipment: 200C LC Excavator Surface Elevation(ft): Not Measured

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE	PID READING	REMARKS
		Brown to red fine to coarse SAND, some fine Gravel, little Silt; dry.			
		Grey fine GRAVEL, some shaley limestone Boulders, and poorly graded fine to medium Sand, little Silt; damp.			
5					
		Dark brown to grey poorly graded fine to medium SAND, some fine Gravel; wet at 10 ft bgs.			
10		Dark grey poorly graded fine to medium SAND, some Gravel; wet; petroleum odor; petroleum globules; running sands.			End of test pit at 12 ft bgs.

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November Test Pitting
350 Franklin Street

0172.0210M010

Note - Mention of petroleum odor/globules/sheen is based on observations by person(s) logging the soil samples collected from the borehole. Where not noted, no petroleum odor/globules/sheen was observed.

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
SB-100	**42.093631**	**-78.442862**		
PROJECT NO./NAME		LOCATION		
0172.0210M010 / 351 Franklin Street		**351 Franklin Street**		
APPROVED BY	LOGGED BY	**Olean, NY**		
A. Marsocci	**G. van der Ven**			
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
TREC Environmental / JA and EH				
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
1.5-in. / Drive Sampler	**2-inches**	**54 LT / Geoprobe**	**1.5" Large Bore**	**11/9/16-11/9/16**
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
Not Measured	**Not Measured**	**Native Backfill**		

Depth, feet	Graphic Log	Visual Description	Blow-Count Values (per 6" Interval)	Sampler Type	PID Values (ppm)	REMARKS
		Dark brown GRAVEL, some fine to coarse Sand, little Silt; moist.			0.4	1 ft recovery.
		Dark brown GRAVEL, some fine to coarse Sand, little Silt; moist.			0.4	1 ft recovery.
5						5
		Dark brown GRAVEL, some Silt; moist.			1.1	2 ft recovery.
		Light grey CONCRETE; dry.			0.9	
10						10
		Brown GRAVEL, some fine to coarse Sand, little Silt; moist.			1.2	2 ft recovery.
		Grey fine to coarse SAND and GRAVEL, some Silt and Clay; moist; petroleum sheen.				
15						15
		Dark grey GRAVEL, some Silt; moist; petroleum sheen.			323.5	2 ft recovery. Sample SB-100-16-20 collected for VOCs, SVOCs, and Metals.
20						20
		Grey to brown CLAY, some Silt; wet.			585.4	1.5 ft recovery.
					94.2	Refusal. End of boring at 22 ft bgs.

Note - Mention of petroleum odor and/or sheen is based on observations by person(s) logging the soil samples collected from the borehole. Where not noted, no petroleum odor and/or sheen was observed.

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
SB-101	**42.093619**	**-78.442893**		
PROJECT NO./NAME		LOCATION		
0172.0210M010 / 351 Franklin Street		**351 Franklin Street**		
APPROVED BY	LOGGED BY			
A. Marsocci	**G. van der Ven**	**Olean, NY**		
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
TREC Environmental / JA and EH				
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
1.5-in. / Drive Sampler	**2-inches**	**54 LT / Geoprobe**	**1.5" Large Bore**	**11/9/16-11/9/16**
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
Not Measured	**Not Measured**	**Native Backfill**		

Depth, feet	Graphic Log	Visual Description	Blow-Count Values (per 6" Interval)	Sampler Type	PID Values (ppm)	REMARKS
		Brown fine to coarse SAND, some Gravel, little Silt; wet.			0.3	0.5 ft recovery.
		Grey GRAVEL, some Sand (Fill); moist; red Brick fragments.			7.4	0.5 ft recovery.
5						5
		Light Grey CONCRETE (Fill); dry.			23.7	
		Grey to Tan GRAVEL, some fine to medium Sand, little Silt; dry.			3.8	0.25 ft recovery.
10						10
		Dark Grey fine to medium SAND, some Silt and Gravel, little Clay; wet; petroleum odor.			391.6	1 ft recovery. Sample SB-101-12-15 collected for VOCs, SVOCs, and Metals.
15						15
		Tan GRAVEL, some fine to coarse Sand, little Silt; moist.			17.1	
		Dark Grey GRAVEL, some fine to coarse Sand and Silt, little Clay; wet; petroleum sheen; petroleum odor.			350.6	2.5 ft recovery.
20						20
		Grey CLAY, some Gravel and Silt; wet.			143.7	3.5 ft recovery.
		Tan CLAY; moist.				End of boring at 24 ft bgs.

Note - Mention of petroleum odor and/or sheen is based on observations by person(s) logging the soil samples collected from the borehole. Where not noted, no petroleum odor and/or sheen was observed.

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
SB-102	**42.093626**	**-78.442943**		
PROJECT NO./NAME		LOCATION		
0172.0210M010 / 351 Franklin Street		**351 Franklin Street**		
APPROVED BY	LOGGED BY			
A. Marsocci	**G. van der Ven**	**Olean, NY**		
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
TREC Environmental / JA and EH				
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
1.5-in. / Drive Sampler	**2-inches**	**54 LT / Geoprobe**	**1.5" Large Bore**	**11/9/16-11/9/16**
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
Not Measured	**Not Measured**	**Native Backfill**		

Depth, feet	Graphic Log	Visual Description	Blow-Count Values (per 6" Interval)	Sampler Type	PID Values (ppm)	REMARKS
		Dark Grey GRAVEL, some medium Sand, little Silt (Fill); moist; red Brick fragments.			0.4	1.5 ft recovery.
		Dark Brown medium SAND, some Gravel, little Silt; moist.			0.5	0.5 ft recovery.
5						5
		Dark Brown GRAVEL, some fine to coarse Sand (Fill); moist; red Brick fragments.			0.6	1 ft recovery.
10						10
		Dark Brown GRAVEL, some fine to coarse Sand (Fill), little Silt; moist; some red Brick fragments.			0.4	
15		Brown GRAVEL, some fine to course Sand (Fill); moist; wood fragments.				15
		Dark Grey GRAVEL, fine to coarse Sand, some Silt; wet; petroleum odor; petroleum sheen.			73.6	Sample SB-102-16-19 collected for VOCs, SVOCs, and Metals.
		Tan CONCRETE; dry.			82.4	
20						20
		Grey GRAVEL, some Silt, little fine to medium Sand; wet.			34.7	2 ft recovery.
		Tan CLAY; moist.			0.7	
						End of boring at 24 ft bgs.

Note - Mention of petroleum odor and/or sheen is based on observations by person(s) logging the soil samples collected from the borehole. Where not noted, no petroleum odor and/or sheen was observed.

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
SB-103	**42.093587**	**-78.442952**		
PROJECT NO./NAME		LOCATION		
0172.0210M010 / 351 Franklin Street		**351 Franklin Street**		
APPROVED BY	LOGGED BY			
A. Marsocci	**G. van der Ven**	**Olean, NY**		
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
TREC Environmental / JA and EH				
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
1.5-in. / Drive Sampler	**2-inches**	**54 LT / Geoprobe**	**1.5" Large Bore**	**11/9/16-11/9/16**
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
Not Measured	**Not Measured**	**Native Backfill**		

Depth, feet	Graphic Log	Visual Description	Blow-Count Values (per 6" Interval)	Sampler Type	PID Values (ppm)	REMARKS
		Brown GRAVEL, some fine to coarse Sand; moist; red Brick fragments.			0.2	2 ft recovery.
		Brown GRAVEL, some fine to course Sand (Fill); dry; red Brick fragments.				
		Tan GRAVEL, some fine to coarse Sand, little Silt; moist.			0.6	2 ft recovery.
5		Grey GRAVEL, some fine to coarse Sand; moist.			24.1	
		Dark Grey fine to medium SAND; moist; petroleum odor.			100.2	2.5 ft recovery.
10		Dark Grey GRAVEL, some fine to medium Sand; moist; petroleum odor.			345.6	2 ft recovery.
		Dark Grey GRAVEL, little fine to coarse Sand; moist; petroleum odor.			240.2	Sample SB-103-12-14 collected for VOCs, SVOCs, and Metals.
15		Dark Grey GRAVEL, some fine to medium Sand; moist; petroleum odor.			418.2	2 ft recovery.
		Light Grey CLAY, fine to medium Sand, some Silt, little Gravel; moist.			192.6	
20		Light Grey GRAVEL, some fine to coarse Sand, little Silt; wet.			95.2	
		Tan CLAY; moist.			3.9	
						End of boring at 24 ft bgs.

Note - Mention of petroleum odor and/or sheen is based on observations by person(s) logging the soil samples collected from the borehole. Where not noted, no petroleum odor and/or sheen was observed.

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
SB-104	**42.093575**	**-78.442983**		
PROJECT NO./NAME		LOCATION		
0172.0210M010 / 351 Franklin Street		**351 Franklin Street**		
APPROVED BY	LOGGED BY			
A. Marsocci	**G. van der Ven**	**Olean, NY**		
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
TREC Environmental / JA and EH				
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
1.5-in. / Drive Sampler	**2-inches**	**54 LT / Geoprobe**	**1.5" Large Bore**	**11/9/16-11/9/16**
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
Not Measured	**Not Measured**	**Native Backfill**		

Depth, feet	Graphic Log	Visual Description	Blow-Count Values (per 6" Interval)	Sampler Type	PID Values (ppm)	REMARKS
		Grey GRAVEL, some fine to coarse Sand (Fill); moist; Brick and Concrete fragments.			1.9	2 ft recovery.
		Brown fine to medium SAND, some Gravel; moist; red Brick fragments.			1.6	2 ft recovery.
5		Dark Grey GRAVEL, some Silt, little Clay; wet.			101.2	
						2 ft recovery.
10		Dark Grey fine to medium SAND; moist.			351.5	
					460.4	2.5 ft recovery.
		Grey GRAVEL, some fine to medium Sand, little Silt; moist.				
15						
					680.2	2.5 ft recovery. Sample SB-104-16-20 collected for VOCs, SVOCs, and Metals.
20		Grey GRAVEL, some fine to medium Sand, little Silt; wet; petroleum sheen.			36.7	3 ft recovery.
		Brown CLAY, some Silt; moist.			22.4	
		Light Grey CLAY; dry.				End of boring at 24 ft bgs.

Note - Mention of petroleum odor and/or sheen is based on observations by person(s) logging the soil samples collected from the borehole. Where not noted, no petroleum odor and/or sheen was observed.

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
SB-105	**42.09365**	**-78.442805**		
PROJECT NO./NAME		LOCATION		
0172.0210M010 / 351 Franklin Street		**351 Franklin Street**		
APPROVED BY	LOGGED BY	**Olean, NY**		
A. Marsocci	**G. van der Ven**			
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
TREC Environmental / JA and EH				
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
1.5-in. / Drive Sampler	**2-inches**	**54 LT / Geoprobe**	**1.5" Large Bore**	**11/10/16-11/10/16**
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
Not Measured	**Not Measured**	**Native Backfill**		

Depth, feet	Graphic Log	Visual Description	Blow-Count Values (per 6" Interval)	Sampler Type	PID Values (ppm)	REMARKS
		Brown GRAVEL, some Sand and organic material, little Silt; moist; red Brick fragments.			0.4	1.5 ft recovery.
		Brown GRAVEL, some Sand (Fill); dry; red Brick fragments.			1.2	1 ft recovery.
5		Brown CLAY, some fine to coarse Gravel, little Cobbles; moist; petroleum odor.				
		Brown fine to coarse SAND, some Gravel and sandstone Cobbles; moist.			1.0	1 ft recovery.
10		Brown fine to coarse SAND, some Gravel, little Silt; moist.			0.9	2.5 ft recovery.
		Grey fine to coarse SAND, some Gravel, little Silt; wet; petroleum sheen; petroleum odor.			398.4	
15		Grey to silver fine to coarse SAND, some Gravel, little Silt; moist; petroleum odor.			584.3	2.5 ft recovery.
20		Grey fine to coarse SAND, some Silt; wet.			194.8	
		Tan CLAY; moist.				
						End of boring at 24 ft bgs. No samples collected.

Note - Mention of petroleum odor and/or sheen is based on observations by person(s) logging the soil samples collected from the borehole. Where not noted, no petroleum odor and/or sheen was observed.

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
SB-106	**42.09368**	**-78.442818**		
PROJECT NO./NAME		LOCATION		
0172.0210M010 / 351 Franklin Street		**351 Franklin Street**		
APPROVED BY	LOGGED BY			
A. Marsocci	**G. van der Ven**	**Olean, NY**		
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
TREC Environmental / JA and EH				
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
1.5-in. / Drive Sampler	**2-inches**	**54 LT / Geoprobe**	**1.5" Large Bore**	**11/10/16-11/10/16**
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
Not Measured	**Not Measured**	**Native Backfill**		

Depth, feet	Graphic Log	Visual Description	Blow-Count Values (per 6" Interval)	Sampler Type	PID Values (ppm)	REMARKS
		Brown GRAVEL, some fine to coarse Sand (Fill); moist; red Brick fragments.			1.1	3 ft recovery.
		Brown CLAY, little Sand; wet; wood fragments.			26.8	2.5 ft recovery.
5		Light Brown fine to coarse SAND, some Gravel; dry.				
		Dark Brown GRAVEL, some fine to coarse Sand, little Silt; moist; wood fragments.			8.2	
		Brown fine to coarse SAND, some Gravel; moist.			1.8	1 ft recovery.
10						
					1.1	2 ft recovery.
15						
		Grey to silver fine to coarse SAND, some Gravel; moist; petroleum odor.			173.6	2 ft recovery.
20		Grey fine to coarse SAND, some Gravel; moist; petroleum odor.			375.4	0.5 ft recovery.
						Refusal. End of boring at 23 ft bgs. No samples collected.

Note - Mention of petroleum odor and/or sheen is based on observations by person(s) logging the soil samples collected from the borehole. Where not noted, no petroleum odor and/or sheen was observed.

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
SB-107	**42.093663**	**-78.442872**		
PROJECT NO./NAME		LOCATION		
0172.0210M010 / 351 Franklin Street		**351 Franklin Street**		
APPROVED BY	LOGGED BY			
A. Marsocci	**G. van der Ven**	**Olean, NY**		
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
TREC Environmental / JA and EH				
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
1.5-in. / Drive Sampler	**2-inches**	**54 LT / Geoprobe**	**1.5" Large Bore**	**11/10/16-11/10/16**
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
Not Measured	**Not Measured**	**Native Backfill**		

Depth, feet	Graphic Log	Visual Description	Blow-Count Values (per 6" Interval)	Sampler Type	PID Values (ppm)	REMARKS
		Dark Brown GRAVEL, little fine to coarse Sand (Fill); moist; red Brick fragments.			1.6	2 ft recovery.
5		Black medium SAND; moist.			1.1	2.5 ft recovery.
10					2.9	1 ft recovery.
15		No Recovery.				No recovery.
20		SLOUGH (Black medium SAND; moist.)				Very little recovery (slough).
		No Recovery.				No recovery.
25		SLOUGH (Black medium SAND; wet; petroleum odor.)			681.1	Very little recovery (slough).
						End of boring at 28 ft bgs. No samples collected.

Note - Mention of petroleum odor and/or sheen is based on observations by person(s) logging the soil samples collected from the borehole. Where not noted, no petroleum odor and/or sheen was observed.

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
SB-108	**42.0937**	**-78.44298**		
PROJECT NO./NAME		LOCATION		
0172.0210M010 / 351 Franklin Street		**351 Franklin Street**		
APPROVED BY	LOGGED BY			
A. Marsocci	**G. van der Ven**	**Olean, NY**		
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
TREC Environmental / JA and EH				
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
1.5-in. / Drive Sampler	**2-inches**	**54 LT / Geoprobe**	**1.5" Large Bore**	**11/10/16-11/10/16**
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
Not Measured	**Not Measured**	**Native Backfill**		

Depth, feet	Graphic Log	Visual Description	Blow-Count Values (per 6" Interval)	Sampler Type	PID Values (ppm)	REMARKS
		Brown GRAVEL, some Silt, little fine to coarse Sand (Fill); moist; red Brick fragments.			4.7	1.5 ft recovery.
5		Brown GRAVEL, some fine to medium Sand, little Silt; dry.			54.5	0.25 ft recovery.
10		Grey to silver GRAVEL and fine to coarse SAND; moist; petroleum sheen; petroleum odor.			349.1	1.5 ft recovery.
					451.2	
15		Grey CONCRETE; dry.				
		Grey to silver GRAVEL and fine to coarse SAND; moist; petroleum sheen; petroleum odor.			506.4	2.5 ft recovery.
20		Grey to silver GRAVEL and fine to coarse SAND, some Cobbles; moist; petroleum odor.			412.1	2.5 ft recovery.
		Grey CLAY; moist.				End of boring at 24 ft bgs. No samples collected.

Note - Mention of petroleum odor and/or sheen is based on observations by person(s) logging the soil samples collected from the borehole. Where not noted, no petroleum odor and/or sheen was observed.

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
SB-109	**42.093667**	**-78.442962**		
PROJECT NO./NAME		LOCATION		
0172.0210M010 / 351 Franklin Street		**351 Franklin Street**		
APPROVED BY	LOGGED BY			
A. Marsocci	**G. van der Ven**	**Olean, NY**		
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
TREC Environmental / JA and EH				
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
1.5-in. / Drive Sampler	**2-inches**	**54 LT / Geoprobe**	**1.5" Large Bore**	**11/10/16-11/10/16**
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
Not Measured	**Not Measured**	**Native Backfill**		

Depth, feet	Graphic Log	Visual Description	Blow-Count Values (per 6" Interval)	Sampler Type	PID Values (ppm)	REMARKS
		Brown fine to coarse SAND and GRAVEL; moist; red Brick fragments.			1.7	2 ft recovery.
5		Dark Brown fine to coarse SAND, some Gravel, little Silt; moist; wood fragments.			2.2	2 ft recovery.
10		Grey coarse SAND; moist.			55.8	2 ft recovery.
15		Grey to silver coarse SAND, some Gravel; moist.			378.1	2.5 ft recovery.
		Light Grey CONCRETE; dry.				
		Grey coarse SAND and GRAVEL; moist; petroleum sheen.			521.9	2 ft recovery.
20		Light Grey CONCRETE; dry.			389.1	2.5 ft recovery.
		Grey well fine to coarse SAND, some Silt and Clay; moist.				
		Tan CLAY; moist.				End of boring at 24 ft bgs. No samples collected.

Note - Mention of petroleum odor and/or sheen is based on observations by person(s) logging the soil samples collected from the borehole. Where not noted, no petroleum odor and/or sheen was observed.

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
SB-110	**42.093712**	**-78.442933**		
PROJECT NO./NAME		LOCATION		
0172.0210M010 / 351 Franklin Street		**351 Franklin Street**		
APPROVED BY	LOGGED BY			
A. Marsocci	**G. van der Ven**	**Olean, NY**		
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
TREC Environmental / JA and EH				
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
1.5-in. / Drive Sampler	**2-inches**	**54 LT / Geoprobe**	**1.5" Large Bore**	**11/10/16-11/10/16**
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
Not Measured	**Not Measured**	**Native Backfill**		

Depth, feet	Graphic Log	Visual Description	Blow-Count Values (per 6" Interval)	Sampler Type	PID Values (ppm)	REMARKS
		Brown fine to coarse SAND, some Gravel, little fine Gravel; moist.			1.7	0.5 ft recovery.
5		Dark Brown fine to coarse SAND, some Gravel; moist; septic odor.			16.7	0.5 ft recovery.
10		Dark Brown fine to coarse SAND, some Gravel; moist.			14.6	0.5 ft recovery.
15		Brown fine to medium SAND, some grey Clay; moist; petroleum odor.			43.9	1 ft recovery.
20		Brown GRAVEL, some fine to coarse Sand; moist; red Brick fragments.			27.7	0.5 ft recovery
		Grey fine to medium SAND, some Clay; moist; petroleum odor.			345.5	
		Tan CLAY; moist.				End of boring at 24 ft bgs. No samples collected.

Note - Mention of petroleum odor and/or sheen is based on observations by person(s) logging the soil samples collected from the borehole. Where not noted, no petroleum odor and/or sheen was observed.

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
SB-111	**42.093685**	**-78.442913**		
PROJECT NO./NAME		LOCATION		
0172.0210M010 / 351 Franklin Street		**351 Franklin Street**		
APPROVED BY	LOGGED BY			
A. Marsocci	**G. van der Ven**	**Olean, NY**		
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
TREC Environmental / JA and EH				
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
1.5-in. / Drive Sampler	**2-inches**	**54 LT / Geoprobe**	**1.5" Large Bore**	**11/10/16-11/10/16**
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
Not Measured	**Not Measured**	**Native Backfill**		

Depth, feet	Graphic Log	Visual Description	Blow-Count Values (per 6" Interval)	Sampler Type	PID Values (ppm)	REMARKS
		Dark Brown GRAVEL, some coarse Sand, little Clay (Fill); moist.			1.8	2 ft recovery.
		Light Grey CONCRETE; dry.				
5		Dark Brown to Black medium SAND, little fine Gravel; moist; petroleum odor.			15.5	2 ft recovery.
					22.9	1 ft recovery.
10						
		Dark Brown medium SAND (Fill); dry; red Brick fragments.				0.25 ft recovery.
15						
		Dark Brown to Grey fine to medium SAND, little Silt and Gravel; moist; red Brick fragments; petroleum odor.			592.2	1 ft recovery.
20						
		Dark Brown GRAVEL and fine to coarse SAND; wet; red Brick fragments; petroleum odor.			666.8	1.5 ft recovery.
		SLOUGH (Dark Brown medium SAND; moist.)			738.6	1 ft recovery (slough).
25						
						0.5 ft recovery (slough).
30						
		SLOUGH (Dark Brown coarse SAND; wet; petroleum odor.)			499.3	0.25 ft recovery (slough).
35						End of boring at 36 ft bgs. No samples collected.

Note - Mention of petroleum odor and/or sheen is based on observations by person(s) logging the soil samples collected from the borehole. Where not noted, no petroleum odor and/or sheen was observed.

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
SB-112	**42.093734**	**-78.44288**		
PROJECT NO./NAME		LOCATION		
0172.0210M010 / 351 Franklin Street		**351 Franklin Street**		
APPROVED BY	LOGGED BY			
A. Marsocci	**G. van der Ven**	**Olean, NY**		
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
TREC Environmental / JA and EH				
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
1.5-in. / Drive Sampler	**2-inches**	**54 LT / Geoprobe**	**1.5" Large Bore**	**11/11/16-11/11/16**
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
Not Measured	**Not Measured**	**Native Backfill**		

Depth, feet	Graphic Log	Visual Description	Blow-Count Values (per 6" Interval)	Sampler Type	PID Values (ppm)	REMARKS
		Dark Brown GRAVEL, some Sand, Silt and organic material (Fill); moist; red Brick fragments.			2.9	2 ft recovery.
		Brown GRAVEL; moist; red Brick fragments.				0.5 ft recovery.
5						
		Brown medium SAND, some Gravel; moist.			0.3	1.5 ft recovery.
10						
		Grey medium SAND and Gravel, some Silt; moist.			48.4	3 ft recovery.
15						
		Grey SILT and SAND, some Gravel; very moist; petroleum odor.			2385	1.5 ft recovery.
20					204.2	
		Tan CLAY; moist.				End of boring at 24 ft bgs. No samples collected.

Note - Mention of petroleum odor and/or sheen is based on observations by person(s) logging the soil samples collected from the borehole. Where not noted, no petroleum odor and/or sheen was observed.

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
SB-113	**42.093707**	**-78.442853**		
PROJECT NO./NAME		LOCATION		
0172.0210M010 / 351 Franklin Street		**351 Franklin Street**		
APPROVED BY	LOGGED BY	**Olean, NY**		
A. Marsocci	**G. van der Ven**			
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
TREC Environmental / JA and EH				
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
1.5-in. / Drive Sampler	**2-inches**	**54 LT / Geoprobe**	**1.5" Large Bore**	**11/11/16-11/11/16**
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
Not Measured	**Not Measured**	**Native Backfill**		

Depth, feet	Graphic Log	Visual Description	Blow-Count Values (per 6" Interval)	Sampler Type	PID Values (ppm)	REMARKS
		Brown GRAVEL, some medium sand (Fill); moist; red Brick fragments.			0.9	2.5 ft recovery.
5		Light Brown to Tan SILT and fine to coarse SAND, some Gravel; moist.			0.6	2 ft recovery.
10		Brown medium SAND; moist.			0.9	2.5 ft recovery.
15		Brown medium SAND, some Gravel, little Silt; moist; light grey Concrete fragments.			0.6	2.5 ft recovery.
20		Grey GRAVEL and fine to coarse SAND, some silt; moist; petroleum odor.			441.5	3 ft recovery.
						End of boring at 24 ft bgs. No samples collected.

Note - Mention of petroleum odor and/or sheen is based on observations by person(s) logging the soil samples collected from the borehole. Where not noted, no petroleum odor and/or sheen was observed.

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
SB-114	**42.093758**	**-78.443198**		
PROJECT NO./NAME		LOCATION		
0172.0210M010 / 351 Franklin Street		**351 Franklin Street**		
APPROVED BY	LOGGED BY	**Olean, NY**		
A. Marsocci	**G. van der Ven**			
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
TREC Environmental / JA and EH				
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
1.5-in. / Drive Sampler	**2-inches**	**54 LT / Geoprobe**	**1.5" Large Bore**	**11/11/16-11/11/16**
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
Not Measured	**Not Measured**	**Native Backfill**		

Depth, feet	Graphic Log	Visual Description	Blow-Count Values (per 6" Interval)	Sampler Type	PID Values (ppm)	REMARKS
		Dark Brown GRAVEL and SAND (Fill); moist; red Brick fragments.			1.1	2 ft recovery.
		Tan CLAY; moist.				
5		Light Brown fine to coarse SAND, some Gravel and red Sand, little Silt; moist.			1.2	2 ft recovery.
		Grey to silver fine to coarse SAND and SILT, some Gravel; wet; petroleum odor.			760.1	2 ft recovery.
10						
					281.4	2 ft recovery.
15						
		Grey fine to coarse SAND, some Gravel and Silt; moist; light grey Concrete at 20'; petroleum odor.			608.3	3 ft recovery.
20						
		Light Grey SILT, some Clay, little fine to medium Sand and Gravel; moist; petroleum sheen.			249.1	2 ft recovery.
		Grey SILT and GRAVEL, some fine to medium Sand; moist.			240.7	1 ft recovery.
25						
						End of boring at 28 ft bgs. No samples collected.

Note - Mention of petroleum odor and/or sheen is based on observations by person(s) logging the soil samples collected from the borehole. Where not noted, no petroleum odor and/or sheen was observed.

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
SB-115	**42.093774**	**-78.443186**		
PROJECT NO./NAME		LOCATION		
0172.0210M010 / 351 Franklin Street		**351 Franklin Street**		
APPROVED BY	LOGGED BY	**Olean, NY**		
A. Marsocci	**G. van der Ven**			
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
TREC Environmental / JA and EH				
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
1.5-in. / Drive Sampler	**2-inches**	**54 LT / Geoprobe**	**1.5" Large Bore**	**11/11/16-11/11/16**
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
Not Measured	**Not Measured**	**Native Backfill**		

Depth, feet	Graphic Log	Visual Description	Blow-Count Values (per 6" Interval)	Sampler Type	PID Values (ppm)	REMARKS
		Brown GRAVEL, some medium Sand (Fill); moist; red Brick fragments.			2.6	2 ft recovery.
5		No Recovery.				No recovery.
		Grey fine to coarse SAND, some Gravel, little Silt; moist; petroleum odor.			499.5	2 ft recovery.
10						
					584.9	2.5 ft recovery.
15						
					303.7	2.5 ft recovery.
20						
		Grey GRAVEL and fine to coarse SAND, some Silt; moist; light grey Concrete; petroleum odor.			330.1	3 ft recovery.
25					1045.1	2.5 ft recovery.
		SLOUGH (Dark Grey fine to coarse SAND and GRAVEL, some Silt; moist; petroleum odor; petroleum sheen.)			640.7	Slough.
30						
		SLOUGH (Grey fine to coarse SAND, some Gravel, little Silt; wet; petroleum odor.)			100.2	Slough.
35						End of boring at 36 ft bgs. No samples collected.

Note - Mention of petroleum odor and/or sheen is based on observations by person(s) logging the soil samples collected from the borehole. Where not noted, no petroleum odor and/or sheen was observed.

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
SB-116	**42.093778**	**-78.443217**		
PROJECT NO./NAME		LOCATION		
0172.0210M010 / 351 Franklin Street		**351 Franklin Street**		
APPROVED BY	LOGGED BY			
A. Marsocci	**G. van der Ven**	**Olean, NY**		
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
TREC Environmental / JA and EH				
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
1.5-in. / Drive Sampler	**2-inches**	**54 LT / Geoprobe**	**1.5" Large Bore**	**11/11/16-11/11/16**
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
Not Measured	**Not Measured**	**Native Backfill**		

Depth, feet	Graphic Log	Visual Description	Blow-Count Values (per 6" Interval)	Sampler Type	PID Values (ppm)	REMARKS
		Dark Brown GRAVEL, some medium Sand, little tan Silt (Fill); moist.			1.2	3 ft recovery.
		Light Brown fine to coarse SAND and GRAVEL, some Silt; moist.			0.6	3 ft recovery.
5						5
		Grey fine to coarse SAND and SILT; moist.			0.7	2 ft recovery.
10						10
		Grey GRAVEL and fine to coarse SAND, some Silt; moist; Concrete at 14 ft bgs.			326.3	3 ft recovery.
15						15
		Grey CLAY; moist.				
		Grey SILT, some fine to medium Sand, little Gravel; moist.			19.7	3 ft recovery.
		Light Grey CONCRETE; dry.				
20						20
		Grey SILT, some fine to medium Sand, little fine Gravel; moist; petroleum odor.			40.6	3.5 ft recovery.
						End of boring at 24 ft bgs. No samples collected.

Note - Mention of petroleum odor and/or sheen is based on observations by person(s) logging the soil samples collected from the borehole. Where not noted, no petroleum odor and/or sheen was observed.

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
SB-117	**42.093348**	**-78.442605**		
PROJECT NO./NAME		LOCATION		
0172.0210M010 / 351 Franklin Street		**351 Franklin Street**		
APPROVED BY	LOGGED BY			
A. Marsocci	**G. van der Ven**	**Olean, NY**		
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
TREC Environmental / JA and EH				
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
1.5-in. / Drive Sampler	**2-inches**	**54 LT / Geoprobe**	**1.5" Large Bore**	**11/18/16-11/18/16**
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
Not Measured	**Not Measured**	**Native Backfill**		

Depth, feet	Graphic Log	Visual Description	Blow-Count Values (per 6" Interval)	Sampler Type	PID Values (ppm)	REMARKS
		Brown fine to medium SAND, some fine Gravel, little black Sand and Silt; moist; red Brick fragments.			0.0	3 ft recovery.
5		Brown fine to medium SAND, some fine Gravel, little Silt; wet.			0.3	2.5 ft recovery.
		Brown to Grey fine to medium SAND, some Silt, little fine Gravel; moist.			0.7	2.5 ft recovery.
10		Brown to Grey fine to medium SAND, some Silt, little fine Gravel; dry.				
		Grey fine to medium SAND, some fine Gravel, little Silt; moist; petroleum odor.			299.2	2 ft recovery.
15		Grey fine to medium SAND, some fine Gravel, little silt; wet; petroleum odor.			65.0	2 ft recovery.
20		Grey CLAY, some Silt, little fine Sand, trace fine gravel; wet.				1 ft recovery. End of boring at 21 ft bgs. No samples collected.

Note - Mention of petroleum odor and/or sheen is based on observations by person(s) logging the soil samples collected from the borehole. Where not noted, no petroleum odor and/or sheen was observed.

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
SB-118	**42.093375**	**-78.442568**		
PROJECT NO./NAME		LOCATION		
0172.0210M010 / 351 Franklin Street		**351 Franklin Street**		
APPROVED BY	LOGGED BY	**Olean, NY**		
A. Marsocci	**G. van der Ven**			
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
TREC Environmental / JA and EH				
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
1.5-in. / Drive Sampler	**2-inches**	**54 LT / Geoprobe**	**1.5" Large Bore**	**11/18/16-11/18/16**
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
Not Measured	**Not Measured**	**Native Backfill**		

Depth, feet	Graphic Log	Visual Description	Blow-Count Values (per 6" Interval)	Sampler Type	PID Values (ppm)	REMARKS
		Dark Brown fine to coarse SAND, some fine Gravel and organic materials; moist.			1.3	2 ft recovery.
		Dark Brown fine to medium SAND, some fine Gravel, little black medium Sand; moist; red Brick fragments.				
5		Brown to Grey fine to coarse SAND, some Silt, little Clay, few Cobbles; moist.			1.1	2 ft recovery.
		Brown to light grey fine to coarse SAND, some fine Gravel; moist; Concrete fragments.			1.6	3 ft recovery.
10						
		Grey fine to coarse SAND, some fine Gravel; dry; petroleum odor.			106.9	3 ft recovery.
15						
		Grey coarse SAND, some Silt, little Clay and fine Gravel; wet; petroleum odor.			320.5	3 ft recovery.
20						
		Tan CLAY; moist.			225.3	3 ft recovery.
		Grey fine GRAVEL, some fine to coarse Sand; wet.				End of boring at 24 ft bgs. No samples collected.

Note - Mention of petroleum odor and/or sheen is based on observations by person(s) logging the soil samples collected from the borehole. Where not noted, no petroleum odor and/or sheen was observed.

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

12 Gill Street
Suite 4700
Woburn, MA 01801
Telephone: (781) 569-4000
Fax: (781) 569-4001

SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
SB-119	**42.093394**	**-78.442537**		
PROJECT NO./NAME		LOCATION		
0172.0210M010 / 351 Franklin Street		**351 Franklin Street**		
APPROVED BY	LOGGED BY			
A. Marsocci	**G. van der Ven**	**Olean, NY**		
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
TREC Environmental / JA and EH				
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
1.5-in. / Drive Sampler	**2-inches**	**54 LT / Geoprobe**	**1.5" Large Bore**	**11/18/16-11/18/16**
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
Not Measured	**Not Measured**	**Native Backfill**		

Depth, feet	Graphic Log	Visual Description	Blow-Count Values (per 6" Interval)	Sampler Type	PID Values (ppm)	REMARKS
		Grey to tan fine to coarse SAND, some fine Gravel; moist.			1.7	3 ft recovery.
		Black medium SAND, some Gravel (Fill); moist; red brick fragments.				
5		Tan CLAY, some Silt, little fine to medium Sand, few fine Gravel; moist.			2.9	2.5 ft recovery.
		Tan to brown fine to medium SAND, some fine Gravel; dry.				
10		Tan to reddish brown fine to medium SAND, some fine Gravel; moist.			2.8	2.5 ft recovery.
15		Grey fine GRAVEL, some fine to medium Sand; wet; petroleum odor.			167.1	3 ft recovery.
		Grey fine GRAVEL, some coarse Sand; wet; petroleum odor.			149.6	3 ft recovery.
20		Grey CLAY, some Silt and few fine Gravel; moist.				End of boring at 20 ft bgs. No samples collected.

Note - Mention of petroleum odor and/or sheen is based on observations by person(s) logging the soil samples collected from the borehole. Where not noted, no petroleum odor and/or sheen was observed.

APPENDIX B

Nov/Dec 2016 Photo Log

Appendix B
November/December 2016 Photo Log
350/351 Franklin Street, Olean NY

Photo 1: TP 187 - Suspected GCM encountered from 4-10 ft bgs; Confining clay layer encountered at 10 ft bgs.

Photo 2: Excavation Zone 1 – suspected GCM encountered from 6-12 ft bgs.

Photo 3: Excavation Zone 5 - 20” pipe encountered approximately 6 ft bgs (looking South).

Photo 4: Excavation during investigation of Structure 2; bottom of structure and clay confining layer encountered at approximately 22 ft bgs.

Photo 5: Excavation Zone 3 – 6 pipe cluster at eastern extent of excavation zone (looking North).

Photo 6: Excavation Zone 3 – 6 pipe cluster encountered at approximately 5 ft bgs (looking North).

Photo 7: Excavated piping from 350 Franklin Street ready for off-Site disposal.

Photo 8: Excavation Zone 1 – Suspected GCM on sidewall encountered at approximately 5 ft bgs.

Photo 9: Excavation Zone 1 – Suspected GCM encountered approximately 5 ft bgs near….

Photo 10: Excavation Zone 3 – Pipe capping activities.

APPENDIX C

Laboratory Analytical Report

ANALYTICAL REPORT

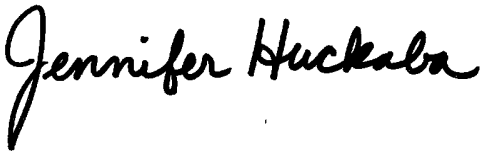
Job Number: 490-116078-1

Job Description: 350/351 Franklin Avenue, Olean, NY

Contract Number: A2288121

For:
Roux Associates, Inc.
12 Gill St., Suite 4700
Woburn, MA 01801

Attention: Matthew Casey



Approved for release.
Jennifer Huckaba
Project Manager II
11/29/2016 6:18 PM

Jennifer Huckaba, Project Manager II
2960 Foster Creighton Drive, Nashville, TN, 37204
(615)301-5042
jennifer.huckaba@testamericainc.com
11/29/2016

The laboratory is only responsible for the certified testing and is not responsible for the sample integrity prior to laboratory receipt.

Table of Contents

CASE NARRATIVE

Client: Roux Associates, Inc.

Project: 350/351 Franklin Avenue, Olean, NY

Report Number: 490-116078-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Nashville attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 11/12/2016 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7º C.

VOLATILE ORGANIC COMPOUNDS (GC MS)

Samples END-402 (490-116078-1), END-403 (490-116078-2), SB-104-16-20 (490-116078-4), SB-100-16-20 (490-116078-5), SB-101-12-15 (490-116078-6), SB-102-16-19 (490-116078-7), END-401 (490-116078-8), SB-103-12-14 (490-116078-9), END-400 (490-116078-10), END-405 (490-116078-11) and END-404 (490-116078-12) were analyzed for volatile organic compounds (GC MS) in accordance with EPA SW846 Method 8260C. The samples were prepared on 11/09/2016, 11/10/2016 and 11/11/2016 and analyzed on 11/21/2016, 11/22/2016 and 11/23/2016.

Surrogates:
4-Bromofluorobenzene (Surr) failed the surrogate recovery criteria high for END-402 (490-116078-1).
4-Bromofluorobenzene (Surr) failed the surrogate recovery criteria high for END-403 (490-116078-2).
4-Bromofluorobenzene (Surr) and Toluene-d8 (Surr) failed the surrogate recovery criteria high for SB-104-16-20 (490-116078-4).
4-Bromofluorobenzene (Surr) and Toluene-d8 (Surr) failed the surrogate recovery criteria high for SB-101-12-15 (490-116078-6).
4-Bromofluorobenzene (Surr) and Toluene-d8 (Surr) failed the surrogate recovery criteria high for SB-102-16-19 (490-116078-7).
4-Bromofluorobenzene (Surr) and Toluene-d8 (Surr) failed the surrogate recovery criteria high for SB-103-12-14 (490-116078-9).
4-Bromofluorobenzene (Surr) and Toluene-d8 (Surr) failed the surrogate recovery criteria high for END-400 (490-116078-10).
4-Bromofluorobenzene (Surr) and Toluene-d8 (Surr) failed the surrogate recovery criteria high for END-405 (490-116078-11).
4-Bromofluorobenzene (Surr) and Toluene-d8 (Surr) failed the surrogate recovery criteria high for END-404 (490-116078-12).
Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Toluene-d8 (Surr) failed the surrogate recovery criteria high for SB-100-16-20MSD (490-116078-5MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Internal standard responses were outside of acceptance limits for the following samples: END-402 (490-116078-1), END-403 (490-116078-2), SB-101-12-15 (490-116078-6), SB-102-16-19 (490-116078-7), SB-103-12-14 (490-116078-9), END-400 (490-116078-10), END-405 (490-116078-11) and END-404 (490-116078-12) and (490-116078-D-8-B MSD). The samples show evidence of matrix interference.

The following samples were diluted due to the nature of the sample matrix: END-402 (490-116078-1), END-403 (490-116078-2), SB-101-12-15 (490-116078-6), SB-102-16-19 (490-116078-7), SB-103-12-14 (490-116078-9), END-400 (490-116078-10), END-405

(490-116078-11) and END-404 (490-116078-12). Elevated reporting limits (RLs) are provided.

The following sample was diluted due to insufficient sodium bisulfate vials remaining: SB-104-16-20 (490-116078-4) and SB-100-16-20 (490-116078-5). Elevated reporting limits (RLs) are provided.

QC:
The method blank for analytical batch 490-388454 contained Methylene Chloride above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-analysis of samples was not performed.

The method blank for analytical batch 490-388744 contained 1,2,3-Trichlorobenzene above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-analysis of samples was not performed.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 490-388748 recovered outside control limits for the following analytes: Vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample duplicate (LCSD) for analytical batch 490-388748 recovered outside control limits for the following analytes: Tetrachloroethene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Acetone failed the recovery criteria low for the MS of sample END-401MS (490-116078-8) in batch 490-388748. Methylene Chloride and Vinyl acetate failed the recovery criteria high.

Acetone failed the recovery criteria low for the MSD of sample END-401MSD (490-116078-8) in batch 490-388748. Methylene Chloride failed the recovery criteria high.

The method blank for analytical batch 490-389170 contained 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene and Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 490-389170 recovered outside control limits for the following analytes: tert-Butylbenzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

1,1,2,2-Tetrachloroethane and 1,1,2-Trichloroethane failed the recovery criteria high for the MS of sample SB-100-16-20MS (490-116078-5) in batch 490-389170.

1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane and 1,2,3-Trichloropropane failed the recovery criteria high for the MSD of sample SB-100-16-20MSD (490-116078-5) in batch 490-389170.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOLATILE ORGANIC COMPOUNDS (GC MS)
Sample TRIP BLANK (490-116078-3) was analyzed for volatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 11/21/2016.

The laboratory control sample duplicate (LCSD) for analytical batch 490-388425 recovered outside control limits for the following analytes: o-Chlorotoluene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (GC MS)
Samples END-402 (490-116078-1), END-403 (490-116078-2), SB-104-16-20 (490-116078-4), SB-100-16-20 (490-116078-5), SB-101-12-15 (490-116078-6), SB-102-16-19 (490-116078-7), END-401 (490-116078-8), SB-103-12-14 (490-116078-9), END-400 (490-116078-10), END-405 (490-116078-11) and END-404 (490-116078-12) were analyzed for Semivolatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 11/18/2016 and analyzed on 11/19/2016.

Samples END-403 (490-116078-2)[20X], END-401 (490-116078-8)[5X], END-400 (490-116078-10)[10X] and END-404 (490-116078-12) [10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 490-387989 and analytical batch 490-388250.

The continuing calibration verification (CCV) associated with batch 490-388250 recovered above the upper control limit for Benzidine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCVIS 490-388250/3).

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

METALS (ICP)
Samples END-402 (490-116078-1), END-403 (490-116078-2), SB-104-16-20 (490-116078-4), SB-100-16-20 (490-116078-5), SB-101-12-15 (490-116078-6), SB-102-16-19 (490-116078-7), END-401 (490-116078-8), SB-103-12-14 (490-116078-9), END-400 (490-116078-10), END-405 (490-116078-11) and END-404 (490-116078-12) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared and analyzed on 11/21/2016.

Several analytes failed the recovery criteria low for the MS of sample 460-124066-1 in batch 490-388752. Lead failed the recovery criteria high. For the MSD of sample 460-124066-1 in batch 490-388752, several analytes failed the recovery criteria low. Barium, Calcium, Lead and Zinc failed the recovery criteria high. Also, several analytes exceeded the RPD limit. The presence of the '4' qualifier indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

The low level check standard recovery associated with batch 490-388752 is outside the acceptance criteria for the following analyte: Cadmium.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

MERCURY
Samples END-402 (490-116078-1), END-403 (490-116078-2), SB-104-16-20 (490-116078-4), SB-100-16-20 (490-116078-5), SB-101-12-15 (490-116078-6), SB-102-16-19 (490-116078-7), END-401 (490-116078-8), SB-103-12-14 (490-116078-9), END-400 (490-116078-10), END-405 (490-116078-11) and END-404 (490-116078-12) were analyzed for mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 11/25/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS
Samples END-402 (490-116078-1), END-403 (490-116078-2), SB-104-16-20 (490-116078-4), SB-100-16-20 (490-116078-5), SB-101-12-15 (490-116078-6), SB-102-16-19 (490-116078-7), END-401 (490-116078-8), SB-103-12-14 (490-116078-9), END-400 (490-116078-10), END-405 (490-116078-11) and END-404 (490-116078-12) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 11/15/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

The laboratory is only responsible for the certified testing and is not responsible for the sample integrity prior to laboratory receipt.

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116078-1	**END-402**					
Acetone		0.0778		0.0621	mg/Kg	8260C
Benzene		0.00130	J	0.00248	mg/Kg	8260C
2-Butanone (MEK)		0.00750	J	0.0621	mg/Kg	8260C
Carbon disulfide		0.00962		0.00621	mg/Kg	8260C
Ethylbenzene		0.00104	J	0.00248	mg/Kg	8260C
m,p-Xylene		0.00171	J	0.00497	mg/Kg	8260C
Xylenes (total)		0.00171	J	0.00745	mg/Kg	8260C
Benzoic acid		0.152	J	0.331	mg/Kg	8270D
Aluminum		10300		29.6	mg/Kg	6010C
Arsenic		5.27		2.96	mg/Kg	6010C
Barium		225		2.96	mg/Kg	6010C
Cadmium		0.148	J	1.48	mg/Kg	6010C
Calcium		2480		296	mg/Kg	6010C
Chromium		15.1		1.48	mg/Kg	6010C
Cobalt		3.52		2.96	mg/Kg	6010C
Copper		22.5		2.96	mg/Kg	6010C
Iron		16000		59.2	mg/Kg	6010C
Lead		17.6		1.48	mg/Kg	6010C
Magnesium		1480		296	mg/Kg	6010C
Manganese		137		4.44	mg/Kg	6010C
Nickel		7.67		2.96	mg/Kg	6010C
Potassium		1100		296	mg/Kg	6010C
Selenium		1.95	J	2.96	mg/Kg	6010C
Sodium		506		296	mg/Kg	6010C
Vanadium		22.0		14.8	mg/Kg	6010C
Zinc		43.8		14.8	mg/Kg	6010C
Percent Solids		66.6		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116078-2	**END-403**					
Acetone		0.187		0.0566	mg/Kg	8260C
2-Butanone (MEK)		0.0222	J	0.0566	mg/Kg	8260C
m,p-Xylene		0.101	J	0.222	mg/Kg	8260C
Toluene		0.0584	J	0.148	mg/Kg	8260C
Xylenes (total)		0.101	J	0.222	mg/Kg	8260C
Aluminum		5210		23.3	mg/Kg	6010C
Antimony		9.26	J	11.7	mg/Kg	6010C
Arsenic		33.3		2.33	mg/Kg	6010C
Barium		79.8		2.33	mg/Kg	6010C
Beryllium		0.560	J	1.17	mg/Kg	6010C
Calcium		2030		233	mg/Kg	6010C
Chromium		12.3		1.17	mg/Kg	6010C
Cobalt		4.24		2.33	mg/Kg	6010C
Copper		65.4		2.33	mg/Kg	6010C
Iron		27800		46.6	mg/Kg	6010C
Lead		927		1.17	mg/Kg	6010C
Magnesium		668		233	mg/Kg	6010C
Manganese		108		3.50	mg/Kg	6010C
Nickel		26.9		2.33	mg/Kg	6010C
Potassium		309		233	mg/Kg	6010C
Selenium		4.52		2.33	mg/Kg	6010C
Sodium		219	J	233	mg/Kg	6010C
Vanadium		32.8		11.7	mg/Kg	6010C
Zinc		83.6		11.7	mg/Kg	6010C
Mercury		0.0759	J	0.112	mg/Kg	7471B
Percent Solids		85.8		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116078-4	**SB-104-16-20**					
Acetone		0.148		0.0709	mg/Kg	8260C
Benzene		0.0135		0.00284	mg/Kg	8260C
2-Butanone (MEK)		0.0328	J	0.0709	mg/Kg	8260C
Carbon disulfide		0.0229		0.00709	mg/Kg	8260C
Ethylbenzene		0.00850		0.00284	mg/Kg	8260C
m,p-Xylene		0.0561		0.00568	mg/Kg	8260C
o-Xylene		0.0200		0.00284	mg/Kg	8260C
sec-Butylbenzene		0.0301		0.00284	mg/Kg	8260C
tert-Butylbenzene		0.0793	J	0.134	mg/Kg	8260C
Toluene		0.0414		0.00284	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.0234		0.00284	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.00951		0.00284	mg/Kg	8260C
Xylenes (total)		0.0761		0.00851	mg/Kg	8260C
Anthracene		0.0844		0.0654	mg/Kg	8270D
Chrysene		0.0382	J	0.0654	mg/Kg	8270D
Phenanthrene		0.307		0.0654	mg/Kg	8270D
Aluminum		4650		20.4	mg/Kg	6010C
Arsenic		4.49		2.04	mg/Kg	6010C
Barium		24.7		2.04	mg/Kg	6010C
Beryllium		0.204	J	1.02	mg/Kg	6010C
Cadmium		0.122	J	1.02	mg/Kg	6010C
Calcium		43000		204	mg/Kg	6010C
Chromium		5.51		1.02	mg/Kg	6010C
Cobalt		3.43		2.04	mg/Kg	6010C
Copper		12.7		2.04	mg/Kg	6010C
Iron		8020		40.8	mg/Kg	6010C
Lead		7.97		1.02	mg/Kg	6010C
Magnesium		3330		204	mg/Kg	6010C
Manganese		446		3.06	mg/Kg	6010C
Nickel		8.32		2.04	mg/Kg	6010C
Potassium		545		204	mg/Kg	6010C
Vanadium		7.77	J	10.2	mg/Kg	6010C
Zinc		50.7		10.2	mg/Kg	6010C
Percent Solids		95.2		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116078-5	**SB-100-16-20**					
n-Butylbenzene		0.0759	J	0.105	mg/Kg	8260C
sec-Butylbenzene		0.0580	J	0.105	mg/Kg	8260C
tert-Butylbenzene		0.143		0.105	mg/Kg	8260C
Phenanthrene		0.285		0.0669	mg/Kg	8270D
Aluminum		5520		23.5	mg/Kg	6010C
Arsenic		11.1		2.35	mg/Kg	6010C
Barium		41.9		2.35	mg/Kg	6010C
Beryllium		0.258	J	1.17	mg/Kg	6010C
Cadmium		0.117	J	1.17	mg/Kg	6010C
Calcium		42400		235	mg/Kg	6010C
Chromium		6.76		1.17	mg/Kg	6010C
Cobalt		4.95		2.35	mg/Kg	6010C
Copper		17.0		2.35	mg/Kg	6010C
Iron		12400		47.0	mg/Kg	6010C
Lead		16.0		1.17	mg/Kg	6010C
Magnesium		10400		235	mg/Kg	6010C
Manganese		540		3.52	mg/Kg	6010C
Nickel		11.3		2.35	mg/Kg	6010C
Potassium		688		235	mg/Kg	6010C
Vanadium		9.27	J	11.7	mg/Kg	6010C
Zinc		80.4		11.7	mg/Kg	6010C
Percent Solids		84.7		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116078-6	**SB-101-12-15**					
Acetone		0.182		0.0425	mg/Kg	8260C
Benzene		0.0145		0.00170	mg/Kg	8260C
2-Butanone (MEK)		0.0346	J	0.0425	mg/Kg	8260C
Carbon disulfide		0.0331		0.00425	mg/Kg	8260C
Ethylbenzene		0.0155		0.00170	mg/Kg	8260C
m,p-Xylene		0.0947		0.00340	mg/Kg	8260C
o-Xylene		0.0360		0.00170	mg/Kg	8260C
tert-Butylbenzene		0.152		0.102	mg/Kg	8260C
Toluene		0.0499		0.00170	mg/Kg	8260C
Xylenes (total)		0.131		0.00510	mg/Kg	8260C
Chrysene		0.0379	J	0.0652	mg/Kg	8270D
Fluorene		0.125		0.0652	mg/Kg	8270D
Aluminum		3930		21.4	mg/Kg	6010C
Arsenic		7.22		2.14	mg/Kg	6010C
Barium		19.6		2.14	mg/Kg	6010C
Cadmium		0.171	J	1.07	mg/Kg	6010C
Calcium		69400		214	mg/Kg	6010C
Chromium		6.83		1.07	mg/Kg	6010C
Cobalt		4.16		2.14	mg/Kg	6010C
Copper		15.0		2.14	mg/Kg	6010C
Iron		9360		42.8	mg/Kg	6010C
Lead		9.66		1.07	mg/Kg	6010C
Magnesium		15300		214	mg/Kg	6010C
Manganese		749		3.21	mg/Kg	6010C
Nickel		9.23		2.14	mg/Kg	6010C
Potassium		393		214	mg/Kg	6010C
Vanadium		7.39	J	10.7	mg/Kg	6010C
Zinc		65.9		10.7	mg/Kg	6010C
Percent Solids		91.4		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116078-7	**SB-102-16-19**					
Acetone		0.198		0.0739	mg/Kg	8260C
Benzene		0.00823		0.00296	mg/Kg	8260C
2-Butanone (MEK)		0.0429	J	0.0739	mg/Kg	8260C
Carbon disulfide		0.0601		0.00739	mg/Kg	8260C
Isopropylbenzene		0.0194		0.00296	mg/Kg	8260C
n-Butylbenzene		0.206	J	0.257	mg/Kg	8260C
N-Propylbenzene		0.116	J	0.257	mg/Kg	8260C
sec-Butylbenzene		0.455		0.257	mg/Kg	8260C
tert-Butylbenzene		0.189	J	0.257	mg/Kg	8260C
Toluene		0.0189		0.00296	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.321		0.257	mg/Kg	8260C
Benzo(a)anthracene		0.0951		0.0669	mg/Kg	8270D
Benzo(a)pyrene		0.108		0.0669	mg/Kg	8270D
Benzo(b)fluoranthene		0.101		0.0669	mg/Kg	8270D
Benzo(g,h,i)perylene		0.134		0.0669	mg/Kg	8270D
Benzo(k)fluoranthene		0.0292	J	0.0669	mg/Kg	8270D
Bis(2-chloroethyl)ether		1.39		0.332	mg/Kg	8270D
Chrysene		0.148		0.0669	mg/Kg	8270D
Dibenzo(a,h)anthracene		0.0610	J	0.0669	mg/Kg	8270D
Fluoranthene		0.0978		0.0669	mg/Kg	8270D
Ideno(1,2,3-cd)pyrene		0.0589	J	0.0669	mg/Kg	8270D
Pyrene		0.216		0.0669	mg/Kg	8270D
Aluminum		3840		22.1	mg/Kg	6010C
Arsenic		10.9		2.21	mg/Kg	6010C
Barium		33.3		2.21	mg/Kg	6010C
Calcium		51500		221	mg/Kg	6010C
Chromium		5.05		1.10	mg/Kg	6010C
Cobalt		3.57		2.21	mg/Kg	6010C
Copper		41.0		2.21	mg/Kg	6010C
Iron		14600		44.1	mg/Kg	6010C
Lead		87.2		1.10	mg/Kg	6010C
Magnesium		12400		221	mg/Kg	6010C
Manganese		406		3.31	mg/Kg	6010C
Nickel		9.53		2.21	mg/Kg	6010C
Potassium		256		221	mg/Kg	6010C
Selenium		1.52	J	2.21	mg/Kg	6010C
Vanadium		7.61	J	11.0	mg/Kg	6010C
Zinc		48.8		11.0	mg/Kg	6010C
Mercury		0.0381	J	0.107	mg/Kg	7471B
Percent Solids		89.9		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116078-8	**END-401**					
Acetone		0.450		0.0623	mg/Kg	8260C
Benzene		0.00238	J	0.00249	mg/Kg	8260C
2-Butanone (MEK)		0.0332	J	0.0623	mg/Kg	8260C
m,p-Xylene		0.00170	J	0.00499	mg/Kg	8260C
Toluene		0.00168	J	0.00249	mg/Kg	8260C
Xylenes (total)		0.00170	J	0.00748	mg/Kg	8260C
Aluminum		8960		22.9	mg/Kg	6010C
Arsenic		27.5		2.29	mg/Kg	6010C
Barium		114		2.29	mg/Kg	6010C
Beryllium		0.915	J	1.14	mg/Kg	6010C
Calcium		3240		229	mg/Kg	6010C
Chromium		18.6		1.14	mg/Kg	6010C
Cobalt		12.1		2.29	mg/Kg	6010C
Copper		67.1		2.29	mg/Kg	6010C
Iron		36100		45.8	mg/Kg	6010C
Lead		166		1.14	mg/Kg	6010C
Magnesium		3810		229	mg/Kg	6010C
Manganese		646		3.43	mg/Kg	6010C
Nickel		28.2		2.29	mg/Kg	6010C
Potassium		685		229	mg/Kg	6010C
Selenium		4.67		2.29	mg/Kg	6010C
Vanadium		24.5		11.4	mg/Kg	6010C
Zinc		73.3		11.4	mg/Kg	6010C
Mercury		0.0964	J	0.112	mg/Kg	7471B
Percent Solids		86.6		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116078-9	**SB-103-12-14**					
Acetone		0.202		0.0459	mg/Kg	8260C
Benzene		0.00185		0.00184	mg/Kg	8260C
2-Butanone (MEK)		0.0512		0.0459	mg/Kg	8260C
Carbon disulfide		0.0261		0.00459	mg/Kg	8260C
tert-Butylbenzene		0.188		0.118	mg/Kg	8260C
Chrysene		0.0865		0.0663	mg/Kg	8270D
Phenanthrene		0.294		0.0663	mg/Kg	8270D
Aluminum		3440		22.3	mg/Kg	6010C
Arsenic		8.85		2.23	mg/Kg	6010C
Barium		14.4		2.23	mg/Kg	6010C
Cadmium		0.201	J	1.11	mg/Kg	6010C
Calcium		7800		223	mg/Kg	6010C
Chromium		5.17		1.11	mg/Kg	6010C
Cobalt		4.26		2.23	mg/Kg	6010C
Copper		17.1		2.23	mg/Kg	6010C
Iron		11700		44.6	mg/Kg	6010C
Lead		7.42		1.11	mg/Kg	6010C
Magnesium		3540		223	mg/Kg	6010C
Manganese		1100		3.34	mg/Kg	6010C
Nickel		10.8		2.23	mg/Kg	6010C
Potassium		316		223	mg/Kg	6010C
Selenium		1.85	J	2.23	mg/Kg	6010C
Thallium		0.914	J	2.23	mg/Kg	6010C
Vanadium		6.89	J	11.1	mg/Kg	6010C
Zinc		54.2		11.1	mg/Kg	6010C
Percent Solids		90.4		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116078-10	**END-400**					
Acetone		0.112		0.0520	mg/Kg	8260C
Benzene		0.00677		0.00208	mg/Kg	8260C
2-Butanone (MEK)		0.0191	J	0.0520	mg/Kg	8260C
Carbon disulfide		0.00949		0.00520	mg/Kg	8260C
Ethylbenzene		0.00932		0.00208	mg/Kg	8260C
Isopropylbenzene		0.00451		0.00208	mg/Kg	8260C
m,p-Xylene		0.0356		0.00416	mg/Kg	8260C
Naphthalene		0.333	J	0.393	mg/Kg	8260C
n-Butylbenzene		0.394		0.157	mg/Kg	8260C
o-Xylene		0.0115		0.00208	mg/Kg	8260C
sec-Butylbenzene		0.260		0.157	mg/Kg	8260C
Toluene		0.00623		0.00208	mg/Kg	8260C
Xylenes (total)		0.0471		0.00624	mg/Kg	8260C
Benzo(a)pyrene		0.628	J	0.670	mg/Kg	8270D
Benzo(b)fluoranthene		0.402	J	0.670	mg/Kg	8270D
Benzo(g,h,i)perylene		2.45		0.670	mg/Kg	8270D
Chrysene		0.889		0.670	mg/Kg	8270D
Ideno(1,2,3-cd)pyrene		0.517	J	0.670	mg/Kg	8270D
Pyrene		0.801		0.670	mg/Kg	8270D
Aluminum		11500		25.9	mg/Kg	6010C
Arsenic		19.5		2.59	mg/Kg	6010C
Barium		121		2.59	mg/Kg	6010C
Beryllium		0.698	J	1.29	mg/Kg	6010C
Cadmium		0.207	J	1.29	mg/Kg	6010C
Calcium		4460		259	mg/Kg	6010C
Chromium		21.2		1.29	mg/Kg	6010C
Cobalt		10.5		2.59	mg/Kg	6010C
Copper		101		2.59	mg/Kg	6010C
Iron		26300		51.7	mg/Kg	6010C
Lead		226		1.29	mg/Kg	6010C
Magnesium		4770		259	mg/Kg	6010C
Manganese		611		3.88	mg/Kg	6010C
Nickel		24.3		2.59	mg/Kg	6010C
Potassium		1170		259	mg/Kg	6010C
Selenium		3.36		2.59	mg/Kg	6010C
Vanadium		23.1		12.9	mg/Kg	6010C
Zinc		99.9		12.9	mg/Kg	6010C
Mercury		0.130	J	0.131	mg/Kg	7471B
Percent Solids		76.1		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116078-11	**END-405**					
Acetone		0.120		0.0334	mg/Kg	8260C
Benzene		0.00192		0.00134	mg/Kg	8260C
2-Butanone (MEK)		0.0177	J	0.0334	mg/Kg	8260C
Carbon disulfide		0.0354		0.00334	mg/Kg	8260C
Isopropylbenzene		0.0791		0.00134	mg/Kg	8260C
m,p-Xylene		0.0241		0.00268	mg/Kg	8260C
n-Butylbenzene		0.368		0.136	mg/Kg	8260C
N-Propylbenzene		0.347		0.136	mg/Kg	8260C
o-Xylene		0.0119		0.00134	mg/Kg	8260C
p-Isopropyltoluene		0.119	J	0.136	mg/Kg	8260C
sec-Butylbenzene		0.453		0.136	mg/Kg	8260C
tert-Butylbenzene		0.0686	J	0.136	mg/Kg	8260C
Toluene		0.00323		0.00134	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.0835	J	0.136	mg/Kg	8260C
Xylenes (total)		0.0360		0.00401	mg/Kg	8260C
Anthracene		0.0364	J	0.0662	mg/Kg	8270D
Benzo(a)anthracene		0.0325	J	0.0662	mg/Kg	8270D
Benzo(a)pyrene		0.0283	J	0.0662	mg/Kg	8270D
Benzo(g,h,i)perylene		0.0435	J	0.0662	mg/Kg	8270D
Chrysene		0.0433	J	0.0662	mg/Kg	8270D
Fluorene		0.0549	J	0.0662	mg/Kg	8270D
1-Methylnaphthalene		0.0581	J	0.0662	mg/Kg	8270D
Phenanthrene		0.305		0.0662	mg/Kg	8270D
Pyrene		0.185		0.0662	mg/Kg	8270D
Aluminum		10600		22.8	mg/Kg	6010C
Arsenic		8.85		2.28	mg/Kg	6010C
Barium		44.3		2.28	mg/Kg	6010C
Beryllium		0.479	J	1.14	mg/Kg	6010C
Calcium		487		228	mg/Kg	6010C
Chromium		11.7		1.14	mg/Kg	6010C
Cobalt		9.42		2.28	mg/Kg	6010C
Copper		40.6		2.28	mg/Kg	6010C
Iron		21900		45.6	mg/Kg	6010C
Lead		15.8		1.14	mg/Kg	6010C
Magnesium		2340		228	mg/Kg	6010C
Manganese		313		3.42	mg/Kg	6010C
Nickel		21.2		2.28	mg/Kg	6010C
Potassium		467		228	mg/Kg	6010C
Selenium		2.65		2.28	mg/Kg	6010C
Vanadium		14.5		11.4	mg/Kg	6010C
Zinc		58.0		11.4	mg/Kg	6010C
Percent Solids		84.0		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116078-12	**END-404**					
Acetone		0.276		0.0509	mg/Kg	8260C
Benzene		0.00559		0.00203	mg/Kg	8260C
2-Butanone (MEK)		0.0404	J	0.0509	mg/Kg	8260C
Carbon disulfide		0.0206		0.00509	mg/Kg	8260C
Ethylbenzene		0.211	J	0.225	mg/Kg	8260C
Isopropylbenzene		0.0935	J	0.225	mg/Kg	8260C
m,p-Xylene		1.39		0.338	mg/Kg	8260C
Naphthalene		0.214	J	0.563	mg/Kg	8260C
n-Butylbenzene		0.204	J	0.225	mg/Kg	8260C
N-Propylbenzene		0.181	J	0.225	mg/Kg	8260C
o-Xylene		0.170	J	0.225	mg/Kg	8260C
sec-Butylbenzene		0.350		0.225	mg/Kg	8260C
tert-Butylbenzene		0.430		0.225	mg/Kg	8260C
Toluene		0.362		0.225	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.430		0.225	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.0867	J	0.225	mg/Kg	8260C
Xylenes (total)		1.56		0.338	mg/Kg	8260C
Benzo(a)anthracene		0.808		0.662	mg/Kg	8270D
Benzo(a)pyrene		0.892		0.662	mg/Kg	8270D
Benzo(g,h,i)perylene		0.698		0.662	mg/Kg	8270D
Chrysene		1.67		0.662	mg/Kg	8270D
Fluoranthene		1.45		0.662	mg/Kg	8270D
Fluorene		0.355	J	0.662	mg/Kg	8270D
Ideno(1,2,3-cd)pyrene		0.405	J	0.662	mg/Kg	8270D
1-Methylnaphthalene		0.360	J	0.662	mg/Kg	8270D
Phenanthrene		1.72		0.662	mg/Kg	8270D
Pyrene		2.97		0.662	mg/Kg	8270D
Aluminum		8200		25.9	mg/Kg	6010C
Arsenic		23.3		2.59	mg/Kg	6010C
Barium		129		2.59	mg/Kg	6010C
Beryllium		0.751	J	1.30	mg/Kg	6010C
Cadmium		0.155	J	1.30	mg/Kg	6010C
Calcium		4370		259	mg/Kg	6010C
Chromium		12.0		1.30	mg/Kg	6010C
Cobalt		7.46		2.59	mg/Kg	6010C
Copper		64.7		2.59	mg/Kg	6010C
Iron		21000		51.8	mg/Kg	6010C
Lead		847		1.30	mg/Kg	6010C
Magnesium		1440		259	mg/Kg	6010C
Manganese		271		3.89	mg/Kg	6010C
Nickel		16.9		2.59	mg/Kg	6010C
Potassium		656		259	mg/Kg	6010C
Selenium		3.08		2.59	mg/Kg	6010C
Sodium		228	J	259	mg/Kg	6010C
Vanadium		20.0		13.0	mg/Kg	6010C
Zinc		57.7		13.0	mg/Kg	6010C

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
Mercury		0.0458	J	0.128	mg/Kg	7471B
Percent Solids		75.1		0.1	%	Moisture

METHOD SUMMARY

Client: Roux Associates, Inc. Job Number: 490-116078-1

Description	Lab Location	Method	Preparation Method
Matrix: Soil			
Volatile Organic Compounds by GC/MS	TAL NSH	SW846 8260C	
Closed System Purge & Trap/Field Methanol	TAL NSH		SW846 5035A
Volatile Organic Compounds by GC/MS	TAL NSH	SW846 8260C	
Closed System Purge and Trap	TAL NSH		SW846 5035A
Semivolatile Organic Compounds (GC/MS)	TAL NSH	SW846 8270D	
Ultrasonic Extraction	TAL NSH		SW846 3550C
Metals (ICP)	TAL NSH	SW846 6010C	
Preparation, Metals, Microwave Assisted	TAL NSH		SW846 3051A
Mercury (CVAA)	TAL NSH	SW846 7471B	
Preparation, Mercury	TAL NSH		SW846 7471B
Percent Moisture	TAL NSH	EPA Moisture	
Matrix: Water			
Volatile Organic Compounds by GC/MS	TAL NSH	SW846 8260C	
Purge and Trap	TAL NSH		SW846 5030C

Lab References:

TAL NSH = TestAmerica Nashville

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Method	Analyst	Analyst ID
SW846 8260C	Larsen, Eric	EML
SW846 8260C	Phakdee, Ruthaiwan	RP
SW846 8270D	Chaiyasit, Thitima 1	T1C
SW846 6010C	Fly, Robyn D	RDF
SW846 7471B	Smith, Lauren C	LCS
EPA Moisture	Ali, Blnd A	BAA

SAMPLE SUMMARY

Client: Roux Associates, Inc. Job Number: 490-116078-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
490-116078-1	END-402	Soil	11/10/2016 1310	11/12/2016 0950
490-116078-2	END-403	Soil	11/10/2016 1420	11/12/2016 0950
490-116078-3TB	TRIP BLANK	Water	11/09/2016 0101	11/12/2016 0950
490-116078-4	SB-104-16-20	Soil	11/09/2016 1315	11/12/2016 0950
490-116078-5	SB-100-16-20	Soil	11/09/2016 1010	11/12/2016 0950
490-116078-6	SB-101-12-15	Soil	11/09/2016 1115	11/12/2016 0950
490-116078-7	SB-102-16-19	Soil	11/09/2016 1145	11/12/2016 0950
490-116078-8	END-401	Soil	11/10/2016 1300	11/12/2016 0950
490-116078-9	SB-103-12-14	Soil	11/09/2016 1200	11/12/2016 0950
490-116078-10	END-400	Soil	11/10/2016 1045	11/12/2016 0950
490-116078-11	END-405	Soil	11/11/2016 1315	11/12/2016 0950
490-116078-12	END-404	Soil	11/11/2016 1115	11/12/2016 0950

SAMPLE RESULTS

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-402

Lab Sample ID: 490-116078-1
Client Matrix: Soil
% Moisture: 33.4

Date Sampled: 11/10/2016 1310
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388454	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-386576	Lab File ID:	112116-15.D
Dilution:	1.0			Initial Weight/Volume:	6.046 g
Analysis Date:	11/21/2016 1647			Final Weight/Volume:	5.0 mL
Prep Date:	11/10/2016 1310				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0778		0.0104	0.0621
Benzene		0.00130	J	0.000832	0.00248
Bromochloromethane		0.000683	U	0.000683	0.00248
Bromodichloromethane		0.000683	U	0.000683	0.00248
Bromoform		0.000683	U	0.000683	0.00248
Bromomethane		0.00149	U	0.00149	0.00248
2-Butanone (MEK)		0.00750	J	0.00633	0.0621
Carbon disulfide		0.00962		0.00447	0.00621
Carbon tetrachloride		0.000832	U	0.000832	0.00248
Chlorobenzene		0.000832	U	0.000832	0.00248
Chloroethane		0.00236	U	0.00236	0.00621
Chloroform		0.000832	U	0.000832	0.00248
Chloromethane		0.000832	U	0.000832	0.00248
cis-1,2-Dichloroethene		0.000832	U	0.000832	0.00248
cis-1,3-Dichloropropene		0.000832	U	0.000832	0.00248
Dibromochloromethane		0.000422	U	0.000422	0.00248
1,2-Dibromoethane		0.00124	U	0.00124	0.00248
Dichlorodifluoromethane		0.00124	U	0.00124	0.00248
1,1-Dichloroethane		0.000832	U	0.000832	0.00248
1,2-Dichloroethane		0.000832	U	0.000832	0.00248
1,1-Dichloroethene		0.000708	U	0.000708	0.00248
1,2-Dichloropropane		0.00117	U	0.00117	0.00248
1,3-Dichloropropane		0.00117	U	0.00117	0.00248
2,2-Dichloropropane		0.000832	U	0.000832	0.00248
1,1-Dichloropropene		0.000633	U	0.000633	0.00248
Ethylbenzene		0.00104	J	0.000832	0.00248
2-Hexanone		0.0207	U	0.0207	0.0621
Iodomethane		0.00832	U	0.00832	0.0248
Isopropylbenzene		0.000509	U	0.000509	0.00248
Methylene bromide		0.000695	U	0.000695	0.00248
Methylene Chloride		0.00107	U	0.00107	0.0124
4-Methyl-2-pentanone (MIBK)		0.00236	U	0.00236	0.0621
Methyl tert butyl ether		0.00119	U	0.00119	0.00248
m,p-Xylene		0.00171	J	0.000695	0.00497
o-Xylene		0.000832	U	0.000832	0.00248
Styrene		0.00137	U	0.00137	0.00248
1,1,1,2-Tetrachloroethane		0.000832	U	0.000832	0.00248
Tetrachloroethene		0.000906	U	0.000906	0.00248
Toluene		0.000919	U	0.000919	0.00248
trans-1,2-Dichloroethene		0.000832	U	0.000832	0.00248
trans-1,3-Dichloropropene		0.000832	U	0.000832	0.00248
1,1,1-Trichloroethane		0.00114	U	0.00114	0.00248
1,1,2-Trichloroethane		0.00174	U	0.00174	0.00621
Trichloroethene		0.00119	U	0.00119	0.00248
Trichlorofluoromethane		0.00124	U	0.00124	0.00248
Vinyl acetate		0.00546	U	0.00546	0.0248

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-402

Lab Sample ID: 490-116078-1
Client Matrix: Soil
% Moisture: 33.4

Date Sampled: 11/10/2016 1310
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388454	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-386576	Lab File ID:	112116-15.D
Dilution:	1.0			Initial Weight/Volume:	6.046 g
Analysis Date:	11/21/2016 1647			Final Weight/Volume:	5.0 mL
Prep Date:	11/10/2016 1310				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl chloride		0.00137	U	0.00137	0.00248
Xylenes (total)		0.00171	J	0.00153	0.00745

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	142	*	70 - 130
Dibromofluoromethane (Surr)	105		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	124		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-402

Lab Sample ID: 490-116078-1
Client Matrix: Soil % Moisture: 33.4

Date Sampled: 11/10/2016 1310
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388454	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-386576	Lab File ID:	112116-15.D
Dilution:	1.0			Initial Weight/Volume:	6.046 g
Analysis Date:	11/21/2016 1647			Final Weight/Volume:	5.0 mL
Prep Date:	11/10/2016 1310				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
	Unknown	1.57	0.0177	J
	Unknown	8.00	0.0152	J
	Unknown	8.87	0.0187	J
	Unknown	9.70	0.0172	J
	Unknown	10.07	0.0170	J
28054-91-3	Bicyclo[3.3.2]decan-9-one	10.31	0.0216	J N
700-56-1	2-Methyladamantane	10.96	0.0174	J N
	Unknown	11.57	0.0248	J
	Unknown	11.88	0.0232	J
	Unknown	12.01	0.0177	J

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-402

Lab Sample ID: 490-116078-1
Client Matrix: Soil

% Moisture: 33.4

Date Sampled: 11/10/2016 1310
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388744	Instrument ID:	HP68
Prep Method:	5035A	Prep Batch:	490-386574	Lab File ID:	11221611.D
Dilution:	1.0			Initial Weight/Volume:	5.582 g
Analysis Date:	11/22/2016 1453			Final Weight/Volume:	5.0 mL
Prep Date:	11/10/2016 1310				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0665	U	0.0665	0.185
1,2-Dibromo-3-chloropropane		0.0646	U	0.0646	0.462
1,2-Dichlorobenzene		0.0314	U	0.0314	0.185
1,3-Dichlorobenzene		0.0628	U	0.0628	0.185
1,4-Dichlorobenzene		0.0868	U	0.0868	0.185
Hexachlorobutadiene		0.102	U	0.102	0.462
Naphthalene		0.157	U	0.157	0.462
n-Butylbenzene		0.0923	U	0.0923	0.185
N-Propylbenzene		0.0628	U	0.0628	0.185
o-Chlorotoluene		0.0849	U	0.0849	0.185
p-Chlorotoluene		0.0775	U	0.0775	0.185
p-Isopropyltoluene		0.0628	U	0.0628	0.185
sec-Butylbenzene		0.0628	U	0.0628	0.185
tert-Butylbenzene		0.0923	U	0.0923	0.185
1,1,2,2-Tetrachloroethane		0.0923	U	0.0923	0.185
1,2,3-Trichlorobenzene		0.0351	U	0.0351	0.185
1,2,4-Trichlorobenzene		0.0628	U	0.0628	0.185
1,2,3-Trichloropropane		0.0517	U	0.0517	0.185
1,2,4-Trimethylbenzene		0.0923	U	0.0923	0.185
1,3,5-Trimethylbenzene		0.0702	U	0.0702	0.185

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-403

Lab Sample ID: 490-116078-2
Client Matrix: Soil
% Moisture: 14.2

Date Sampled: 11/10/2016 1420
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388454	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-386576	Lab File ID:	112116-16.D
Dilution:	1.0			Initial Weight/Volume:	5.148 g
Analysis Date:	11/21/2016 1717			Final Weight/Volume:	5.0 mL
Prep Date:	11/10/2016 1420				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.187		0.00951	0.0566
Benzene		0.000759	U	0.000759	0.00227
Bromochloromethane		0.000623	U	0.000623	0.00227
Bromodichloromethane		0.000623	U	0.000623	0.00227
Bromomethane		0.00136	U	0.00136	0.00227
2-Butanone (MEK)		0.0222	J	0.00578	0.0566
Carbon disulfide		0.00408	U	0.00408	0.00566
Carbon tetrachloride		0.000759	U	0.000759	0.00227
Chloroethane		0.00215	U	0.00215	0.00566
Chloroform		0.000759	U	0.000759	0.00227
Chloromethane		0.000759	U	0.000759	0.00227
cis-1,2-Dichloroethene		0.000759	U	0.000759	0.00227
Dichlorodifluoromethane		0.00113	U	0.00113	0.00227
1,1-Dichloroethane		0.000759	U	0.000759	0.00227
1,2-Dichloroethane		0.000759	U	0.000759	0.00227
1,1-Dichloroethene		0.000646	U	0.000646	0.00227
1,2-Dichloropropane		0.00106	U	0.00106	0.00227
2,2-Dichloropropane		0.000759	U	0.000759	0.00227
1,1-Dichloropropene		0.000578	U	0.000578	0.00227
Iodomethane		0.00759	U	0.00759	0.0227
Methylene bromide		0.000634	U	0.000634	0.00227
Methylene Chloride		0.000974	U	0.000974	0.0113
Methyl tert butyl ether		0.00109	U	0.00109	0.00227
trans-1,2-Dichloroethene		0.000759	U	0.000759	0.00227
1,1,1-Trichloroethane		0.00104	U	0.00104	0.00227
Trichloroethene		0.00109	U	0.00109	0.00227
Trichlorofluoromethane		0.00113	U	0.00113	0.00227
Vinyl acetate		0.00498	U	0.00498	0.0227
Vinyl chloride		0.00125	U	0.00125	0.00227

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	210	*	70 - 130
Dibromofluoromethane (Surr)	120		70 - 130
1,2-Dichloroethane-d4 (Surr)	124		70 - 130
Toluene-d8 (Surr)	126	*	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-403

Lab Sample ID: 490-116078-2
Client Matrix: Soil % Moisture: 14.2

Date Sampled: 11/10/2016 1420
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388454	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-386576	Lab File ID:	112116-16.D
Dilution:	1.0			Initial Weight/Volume:	5.148 g
Analysis Date:	11/21/2016 1717			Final Weight/Volume:	5.0 mL
Prep Date:	11/10/2016 1420				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
	Unknown	1.46	0.0176	J
	Unknown	1.73	0.0124	J
	Unknown	1.82	0.0118	J
67-63-0	Isopropyl alcohol	2.72	0.0182	J
79-20-9	Methyl acetate	2.84	0.0121	*
75-65-0	2-Methyl-2-propanol	2.97	0.0174	J
110-54-3	Hexane	3.25	0.00134	J B
	Unknown	5.02	0.00586	J
	Unknown	9.26	0.00847	J
	Unknown	11.94	0.00637	J

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-403

Lab Sample ID: 490-116078-2
Client Matrix: Soil

% Moisture: 14.2

Date Sampled: 11/10/2016 1420
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388744	Instrument ID:	HP68
Prep Method:	5035A	Prep Batch:	490-386574	Lab File ID:	11221612.D
Dilution:	1.0			Initial Weight/Volume:	4.444 g
Analysis Date:	11/22/2016 1521			Final Weight/Volume:	5.0 mL
Prep Date:	11/10/2016 1420				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0532	U	0.0532	0.148
Bromoform		0.0414	U	0.0414	0.148
Chlorobenzene		0.0503	U	0.0503	0.148
cis-1,3-Dichloropropene		0.0503	U	0.0503	0.148
Dibromochloromethane		0.0251	U	0.0251	0.148
1,2-Dibromo-3-chloropropane		0.0517	U	0.0517	0.370
1,2-Dibromoethane		0.0739	U	0.0739	0.148
1,2-Dichlorobenzene		0.0251	U	0.0251	0.148
1,3-Dichlorobenzene		0.0503	U	0.0503	0.148
1,4-Dichlorobenzene		0.0695	U	0.0695	0.148
1,3-Dichloropropane		0.0695	U	0.0695	0.148
Ethylbenzene		0.0503	U	0.0503	0.148
Hexachlorobutadiene		0.0813	U	0.0813	0.370
2-Hexanone		1.24	U	1.24	3.70
Isopropylbenzene		0.0310	U	0.0310	0.148
4-Methyl-2-pentanone (MIBK)		1.26	U	1.26	3.70
m,p-Xylene		0.101	J	0.0414	0.222
Naphthalene		0.126	U	0.126	0.370
n-Butylbenzene		0.0739	U	0.0739	0.148
N-Propylbenzene		0.0503	U	0.0503	0.148
o-Chlorotoluene		0.0680	U	0.0680	0.148
o-Xylene		0.0503	U	0.0503	0.148
p-Chlorotoluene		0.0621	U	0.0621	0.148
p-Isopropyltoluene		0.0503	U	0.0503	0.148
sec-Butylbenzene		0.0503	U	0.0503	0.148
Styrene		0.0813	U	0.0813	0.148
tert-Butylbenzene		0.0739	U	0.0739	0.148
1,1,1,2-Tetrachloroethane		0.0503	U	0.0503	0.148
1,1,2,2-Tetrachloroethane		0.0739	U	0.0739	0.148
Tetrachloroethene		0.0503	U	0.0503	0.148
Toluene		0.0584	J	0.0547	0.148
trans-1,3-Dichloropropene		0.0503	U	0.0503	0.148
1,2,3-Trichlorobenzene		0.0281	U	0.0281	0.148
1,2,4-Trichlorobenzene		0.0503	U	0.0503	0.148
1,1,2-Trichloroethane		0.103	U	0.103	0.370
1,2,3-Trichloropropane		0.0414	U	0.0414	0.148
1,2,4-Trimethylbenzene		0.0739	U	0.0739	0.148
1,3,5-Trimethylbenzene		0.0562	U	0.0562	0.148
Xylenes (total)		0.101	J	0.0916	0.222

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 490-116078-3TB
Client Matrix: Water

Date Sampled: 11/09/2016 0101
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388425	Instrument ID:	HP39
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	11211608.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	11/21/2016 1303			Final Weight/Volume:	10 mL
Prep Date:	11/21/2016 1303				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	2.66	U	2.66	25.0
Benzene	0.200	U	0.200	1.00
Bromobenzene	0.210	U	0.210	1.00
Bromochloromethane	0.150	U	0.150	1.00
Bromodichloromethane	0.170	U	0.170	1.00
Bromoform	0.290	U	0.290	1.00
Bromomethane	0.350	U	0.350	1.00
2-Butanone (MEK)	2.64	U	2.64	50.0
Carbon disulfide	0.220	U	0.220	1.00
Carbon tetrachloride	0.180	U	0.180	1.00
Chlorobenzene	0.180	U	0.180	1.00
Chloroethane	0.360	U	0.360	1.00
Chloroform	0.230	U	0.230	1.00
Chloromethane	0.360	U	0.360	1.00
cis-1,2-Dichloroethene	0.210	U	0.210	1.00
cis-1,3-Dichloropropene	0.170	U	0.170	1.00
Dibromochloromethane	0.250	U	0.250	1.00
1,2-Dibromo-3-chloropropane	0.940	U	0.940	10.0
1,2-Dibromoethane	0.210	U	0.210	1.00
1,2-Dichlorobenzene	0.190	U	0.190	1.00
1,3-Dichlorobenzene	0.180	U	0.180	1.00
1,4-Dichlorobenzene	0.170	U	0.170	1.00
Dichlorodifluoromethane	0.170	U	0.170	1.00
1,1-Dichloroethane	0.240	U	0.240	1.00
1,2-Dichloroethane	0.200	U	0.200	1.00
1,1-Dichloroethene	0.250	U	0.250	1.00
1,2-Dichloropropane	0.250	U	0.250	1.00
1,3-Dichloropropane	0.190	U	0.190	1.00
2,2-Dichloropropane	0.160	U	0.160	1.00
1,1-Dichloropropene	0.200	U	0.200	1.00
Ethylbenzene	0.190	U	0.190	1.00
Hexachlorobutadiene	0.380	U	0.380	2.00
2-Hexanone	1.28	U	1.28	10.0
Iodomethane	1.50	U	1.50	10.0
Isopropylbenzene	0.330	U	0.330	1.00
Methylene bromide	0.450	U	0.450	1.00
Methylene Chloride	1.00	U	1.00	5.00
4-Methyl-2-pentanone (MIBK)	0.810	U	0.810	10.0
Methyl tert butyl ether	0.170	U	0.170	1.00
m,p-Xylene	0.380	U	0.380	2.00
Naphthalene	0.210	U	0.210	5.00
n-Butylbenzene	0.240	U	0.240	1.00
N-Propylbenzene	0.170	U	0.170	1.00
o-Chlorotoluene	0.180	U *	0.180	1.00
o-Xylene	0.200	U	0.200	1.00
p-Chlorotoluene	0.170	U	0.170	1.00

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 490-116078-3TB
Client Matrix: Water

Date Sampled: 11/09/2016 0101
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388425	Instrument ID:	HP39
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	11211608.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	11/21/2016 1303			Final Weight/Volume:	10 mL
Prep Date:	11/21/2016 1303				

Analyte	Result (ug/L)	Qualifier	MDL	RL
p-Isopropyltoluene	0.170	U	0.170	1.00
sec-Butylbenzene	0.170	U	0.170	1.00
Styrene	0.280	U	0.280	1.00
tert-Butylbenzene	0.170	U	0.170	1.00
1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
1,1,2,2-Tetrachloroethane	0.190	U	0.190	1.00
Tetrachloroethene	0.140	U	0.140	1.00
Toluene	0.170	U	0.170	1.00
trans-1,2-Dichloroethene	0.230	U	0.230	1.00
trans-1,3-Dichloropropene	0.170	U	0.170	1.00
1,2,3-Trichlorobenzene	0.230	U	0.230	1.00
1,2,4-Trichlorobenzene	0.200	U	0.200	1.00
1,1,1-Trichloroethane	0.190	U	0.190	1.00
1,1,2-Trichloroethane	0.190	U	0.190	1.00
Trichloroethene	0.200	U	0.200	1.00
Trichlorofluoromethane	0.210	U	0.210	1.00
1,2,3-Trichloropropane	0.230	U	0.230	1.00
1,2,4-Trimethylbenzene	0.170	U	0.170	1.00
1,3,5-Trimethylbenzene	0.170	U	0.170	1.00
Vinyl acetate	1.71	U	1.71	10.0
Vinyl chloride	0.180	U	0.180	1.00
Xylenes (total)	0.580	U	0.580	3.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
Toluene-d8 (Surr)	106		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-104-16-20

Lab Sample ID: 490-116078-4
Client Matrix: Soil

% Moisture: 4.8

Date Sampled: 11/09/2016 1315
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388748	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-386576	Lab File ID:	112216-17.D
Dilution:	1.0			Initial Weight/Volume:	3.7 g
Analysis Date:	11/22/2016 1811			Final Weight/Volume:	5.0 mL
Prep Date:	11/09/2016 1315				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.148		0.0119	0.0709
Benzene		0.0135		0.000951	0.00284
Bromobenzene		0.00102	U	0.00102	0.00284
Bromochloromethane		0.000780	U	0.000780	0.00284
Bromodichloromethane		0.000780	U	0.000780	0.00284
Bromoform		0.000780	U	0.000780	0.00284
Bromomethane		0.00170	U	0.00170	0.00284
2-Butanone (MEK)		0.0328	J	0.00724	0.0709
Carbon disulfide		0.0229		0.00511	0.00709
Carbon tetrachloride		0.000951	U	0.000951	0.00284
Chlorobenzene		0.000951	U	0.000951	0.00284
Chloroethane		0.00270	U	0.00270	0.00709
Chloroform		0.000951	U	0.000951	0.00284
Chloromethane		0.000951	U	0.000951	0.00284
cis-1,2-Dichloroethene		0.000951	U	0.000951	0.00284
cis-1,3-Dichloropropene		0.000951	U	0.000951	0.00284
Dibromochloromethane		0.000482	U	0.000482	0.00284
1,2-Dibromo-3-chloropropane		0.000993	U	0.000993	0.00709
1,2-Dibromoethane		0.00142	U	0.00142	0.00284
1,2-Dichlorobenzene		0.000482	U	0.000482	0.00284
1,3-Dichlorobenzene		0.000951	U	0.000951	0.00284
1,4-Dichlorobenzene		0.000951	U	0.000951	0.00284
Dichlorodifluoromethane		0.00142	U	0.00142	0.00284
1,1-Dichloroethane		0.000951	U	0.000951	0.00284
1,2-Dichloroethane		0.000951	U	0.000951	0.00284
1,1-Dichloroethene		0.000809	U	0.000809	0.00284
1,2-Dichloropropane		0.00133	U	0.00133	0.00284
1,3-Dichloropropane		0.00133	U	0.00133	0.00284
2,2-Dichloropropane		0.000951	U	0.000951	0.00284
1,1-Dichloropropene		0.000724	U	0.000724	0.00284
Ethylbenzene		0.00850		0.000951	0.00284
Hexachlorobutadiene		0.00162	U	0.00162	0.00709
2-Hexanone		0.0237	U	0.0237	0.0709
Iodomethane		0.00951	U	0.00951	0.0284
Isopropylbenzene		0.000582	U	0.000582	0.00284
Methylene bromide		0.000795	U	0.000795	0.00284
Methylene Chloride		0.00122	U	0.00122	0.0142
4-Methyl-2-pentanone (MIBK)		0.00270	U	0.00270	0.0709
Methyl tert butyl ether		0.00136	U	0.00136	0.00284
m,p-Xylene		0.0561		0.000795	0.00568
Naphthalene		0.00241	U	0.00241	0.00709
n-Butylbenzene		0.00139	U	0.00139	0.00284
N-Propylbenzene		0.000951	U	0.000951	0.00284
o-Chlorotoluene		0.00126	U	0.00126	0.00284
o-Xylene		0.0200		0.000951	0.00284
p-Chlorotoluene		0.00119	U	0.00119	0.00284

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-104-16-20

Lab Sample ID: 490-116078-4
Client Matrix: Soil

% Moisture: 4.8

Date Sampled: 11/09/2016 1315
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388748	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-386576	Lab File ID:	112216-17.D
Dilution:	1.0			Initial Weight/Volume:	3.7 g
Analysis Date:	11/22/2016 1811			Final Weight/Volume:	5.0 mL
Prep Date:	11/09/2016 1315				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000951	U	0.000951	0.00284
sec-Butylbenzene		0.0301		0.000951	0.00284
Styrene		0.00156	U	0.00156	0.00284
1,1,1,2-Tetrachloroethane		0.000951	U	0.000951	0.00284
1,1,2,2-Tetrachloroethane		0.00142	U	0.00142	0.00284
Tetrachloroethene		0.00104	U *	0.00104	0.00284
Toluene		0.0414		0.00105	0.00284
trans-1,2-Dichloroethene		0.000951	U	0.000951	0.00284
trans-1,3-Dichloropropene		0.000951	U	0.000951	0.00284
1,2,3-Trichlorobenzene		0.000539	U	0.000539	0.00284
1,2,4-Trichlorobenzene		0.000951	U	0.000951	0.00284
1,1,1-Trichloroethane		0.00131	U	0.00131	0.00284
1,1,2-Trichloroethane		0.00199	U	0.00199	0.00709
Trichloroethene		0.00136	U	0.00136	0.00284
Trichlorofluoromethane		0.00142	U	0.00142	0.00284
1,2,3-Trichloropropane		0.000780	U	0.000780	0.00284
1,2,4-Trimethylbenzene		0.0234		0.00142	0.00284
1,3,5-Trimethylbenzene		0.00951		0.00106	0.00284
Vinyl acetate		0.00624	U *	0.00624	0.0284
Vinyl chloride		0.00156	U	0.00156	0.00284
Xylenes (total)		0.0761		0.00175	0.00851

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	148	*	70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
Toluene-d8 (Surr)	431	*	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-104-16-20

Lab Sample ID: 490-116078-4
Client Matrix: Soil

% Moisture: 4.8

Date Sampled: 11/09/2016 1315
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388748	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-386576	Lab File ID:	112216-17.D
Dilution:	1.0			Initial Weight/Volume:	3.7 g
Analysis Date:	11/22/2016 1811			Final Weight/Volume:	5.0 mL
Prep Date:	11/09/2016 1315				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
108-87-2	Methylcyclohexane	4.95	5.20	E
1678-91-7	Cyclohexane, ethyl-	6.45	0.265	J N
	Unknown	7.71	0.237	J
	Unknown	7.86	0.122	J
	Unknown	9.71	0.129	J
1000152-47-3	trans-Decalin, 2-methyl-	10.09	0.115	J N
95-93-2	Benzene, 1,2,4,5-tetramethyl-	10.80	0.151	J N
	Unknown	10.98	0.137	J
	Unknown	11.59	0.205	J
13065-07-1	Naphthalene, 1,2,3,4-tetrahydro-2,7-dimethyl-	12.58	0.171	J N

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-104-16-20

Lab Sample ID: 490-116078-4
Client Matrix: Soil

% Moisture: 4.8

Date Sampled: 11/09/2016 1315
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388744	Instrument ID:	HP68
Prep Method:	5035A	Prep Batch:	490-386574	Lab File ID:	11221613.D
Dilution:	1.0			Initial Weight/Volume:	4.066 g
Analysis Date:	11/22/2016 1548			Final Weight/Volume:	5.0 mL
Prep Date:	11/09/2016 1315				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
tert-Butylbenzene		0.0793	J	0.0671	0.134

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-100-16-20

Lab Sample ID: 490-116078-5
Client Matrix: Soil

% Moisture: 15.3

Date Sampled: 11/09/2016 1010
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388744	Instrument ID:	HP68
Prep Method:	5035A	Prep Batch:	490-386574	Lab File ID:	11221614.D
Dilution:	1.0			Initial Weight/Volume:	6.804 g
Analysis Date:	11/22/2016 1616			Final Weight/Volume:	5.0 mL
Prep Date:	11/09/2016 1010				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		2.10	U	2.10	2.62
Benzene		0.0356	U	0.0356	0.105
Bromobenzene		0.0377	U	0.0377	0.105
Bromochloromethane		0.0294	U	0.0294	0.105
Bromodichloromethane		0.0294	U	0.0294	0.105
Bromoform		0.0294	U	0.0294	0.105
Bromomethane		0.0629	U	0.0629	0.105
2-Butanone (MEK)		0.273	U	0.273	2.62
Carbon disulfide		0.189	U	0.189	0.262
Carbon tetrachloride		0.0356	U	0.0356	0.105
Chlorobenzene		0.0356	U	0.0356	0.105
Chloroethane		0.0996	U	0.0996	0.262
Chloroform		0.0356	U	0.0356	0.105
Chloromethane		0.0356	U	0.0356	0.105
cis-1,2-Dichloroethene		0.0356	U	0.0356	0.105
cis-1,3-Dichloropropene		0.0356	U	0.0356	0.105
Dibromochloromethane		0.0178	U	0.0178	0.105
1,2-Dibromo-3-chloropropane		0.0367	U	0.0367	0.262
1,2-Dibromoethane		0.0524	U	0.0524	0.105
1,2-Dichlorobenzene		0.0178	U	0.0178	0.105
1,3-Dichlorobenzene		0.0356	U	0.0356	0.105
1,4-Dichlorobenzene		0.0493	U	0.0493	0.105
Dichlorodifluoromethane		0.0524	U	0.0524	0.105
1,1-Dichloroethane		0.0356	U	0.0356	0.105
1,2-Dichloroethane		0.0356	U	0.0356	0.105
1,1-Dichloroethene		0.0304	U	0.0304	0.105
1,2-Dichloropropane		0.0493	U	0.0493	0.105
1,3-Dichloropropane		0.0493	U	0.0493	0.105
2,2-Dichloropropane		0.0356	U	0.0356	0.105
1,1-Dichloropropene		0.0273	U	0.0273	0.105
Ethylbenzene		0.0356	U	0.0356	0.105
Hexachlorobutadiene		0.0577	U	0.0577	0.262
2-Hexanone		0.881	U	0.881	2.62
Isopropylbenzene		0.0220	U	0.0220	0.105
Methylene bromide		0.0294	U	0.0294	0.105
Methylene Chloride		0.0524	U	0.0524	0.524
4-Methyl-2-pentanone (MIBK)		0.891	U	0.891	2.62
Methyl tert butyl ether		0.0524	U	0.0524	0.105
m,p-Xylene		0.0294	U	0.0294	0.157
Naphthalene		0.0891	U	0.0891	0.262
n-Butylbenzene		0.0759	J	0.0524	0.105
N-Propylbenzene		0.0356	U	0.0356	0.105
o-Chlorotoluene		0.0482	U	0.0482	0.105
o-Xylene		0.0356	U	0.0356	0.105
p-Chlorotoluene		0.0440	U	0.0440	0.105
p-Isopropyltoluene		0.0356	U	0.0356	0.105

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-100-16-20

Lab Sample ID: 490-116078-5
Client Matrix: Soil

% Moisture: 15.3

Date Sampled: 11/09/2016 1010
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388744	Instrument ID:	HP68
Prep Method:	5035A	Prep Batch:	490-386574	Lab File ID:	11221614.D
Dilution:	1.0			Initial Weight/Volume:	6.804 g
Analysis Date:	11/22/2016 1616			Final Weight/Volume:	5.0 mL
Prep Date:	11/09/2016 1010				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
sec-Butylbenzene		0.0580	J	0.0356	0.105
Styrene		0.0577	U	0.0577	0.105
tert-Butylbenzene		0.143		0.0524	0.105
1,1,1,2-Tetrachloroethane		0.0356	U	0.0356	0.105
1,1,2,2-Tetrachloroethane		0.0524	U	0.0524	0.105
Tetrachloroethene		0.0356	U	0.0356	0.105
Toluene		0.0388	U	0.0388	0.105
trans-1,2-Dichloroethene		0.0356	U	0.0356	0.105
trans-1,3-Dichloropropene		0.0356	U	0.0356	0.105
1,2,3-Trichlorobenzene		0.0199	U	0.0199	0.105
1,2,4-Trichlorobenzene		0.0356	U	0.0356	0.105
1,1,1-Trichloroethane		0.0482	U	0.0482	0.105
1,1,2-Trichloroethane		0.0734	U	0.0734	0.262
Trichloroethene		0.0524	U	0.0524	0.105
Trichlorofluoromethane		0.0524	U	0.0524	0.105
1,2,3-Trichloropropane		0.0294	U	0.0294	0.105
1,2,4-Trimethylbenzene		0.0524	U	0.0524	0.105
1,3,5-Trimethylbenzene		0.0398	U	0.0398	0.105
Vinyl acetate		0.231	U	0.231	1.05
Vinyl chloride		0.0577	U	0.0577	0.105
Xylenes (total)		0.0650	U	0.0650	0.157

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
Toluene-d8 (Surr)	110		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-100-16-20

Lab Sample ID: 490-116078-5
Client Matrix: Soil

% Moisture: 15.3

Date Sampled: 11/09/2016 1010
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388744	Instrument ID:	HP68
Prep Method:	5035A	Prep Batch:	490-386574	Lab File ID:	11221614.D
Dilution:	1.0			Initial Weight/Volume:	6.804 g
Analysis Date:	11/22/2016 1616			Final Weight/Volume:	5.0 mL
Prep Date:	11/09/2016 1010				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
	Unknown	1.37	19.6	J
79-29-8	Butane, 2,3-dimethyl-	3.18	42.2	J N
590-35-2	Pentane, 2,2-dimethyl-	3.92	39.2	J N
108-08-7	Pentane, 2,4-dimethyl-	3.99	63.4	J N
464-06-2	Butane, 2,2,3-trimethyl-	4.12	16.4	J N
15890-40-1	Cyclopentane, 1,2,3-trimethyl-, (1.alpha.,2.alpha.,3.beta.)-	5.75	29.3	J N
79-46-9	2-Nitropropane	5.87	16.6	
	Unknown	6.02	43.1	J
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	6.53	98.3	J N
1678-91-7	Cyclohexane, ethyl-	7.03	16.0	J N

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-100-16-20

Lab Sample ID: 490-116078-5
Client Matrix: Soil

% Moisture: 15.3

Date Sampled: 11/09/2016 1010
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389170	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-386574	Lab File ID:	112316-09.D
Dilution:	1.0			Initial Weight/Volume:	6.804 g
Analysis Date:	11/23/2016 1539			Final Weight/Volume:	5.0 mL
Prep Date:	11/09/2016 1010				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Iodomethane		0.356	U	0.356	1.05

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
Dibromofluoromethane (Surr)	94		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	118		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-101-12-15

Lab Sample ID: 490-116078-6
Client Matrix: Soil

% Moisture: 8.6

Date Sampled: 11/09/2016 1115
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388454	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-386576	Lab File ID:	112116-17.D
Dilution:	1.0			Initial Weight/Volume:	6.444 g
Analysis Date:	11/21/2016 1748			Final Weight/Volume:	5.0 mL
Prep Date:	11/09/2016 1115				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.182		0.00713	0.0425
Benzene		0.0145		0.000569	0.00170
Bromochloromethane		0.000467	U	0.000467	0.00170
Bromodichloromethane		0.000467	U	0.000467	0.00170
Bromoform		0.000467	U	0.000467	0.00170
Bromomethane		0.00102	U	0.00102	0.00170
2-Butanone (MEK)		0.0346	J	0.00433	0.0425
Carbon disulfide		0.0331		0.00306	0.00425
Carbon tetrachloride		0.000569	U	0.000569	0.00170
Chlorobenzene		0.000569	U	0.000569	0.00170
Chloroethane		0.00161	U	0.00161	0.00425
Chloroform		0.000569	U	0.000569	0.00170
Chloromethane		0.000569	U	0.000569	0.00170
cis-1,2-Dichloroethene		0.000569	U	0.000569	0.00170
cis-1,3-Dichloropropene		0.000569	U	0.000569	0.00170
Dibromochloromethane		0.000289	U	0.000289	0.00170
1,2-Dibromoethane		0.000849	U	0.000849	0.00170
Dichlorodifluoromethane		0.000849	U	0.000849	0.00170
1,1-Dichloroethane		0.000569	U	0.000569	0.00170
1,2-Dichloroethane		0.000569	U	0.000569	0.00170
1,1-Dichloroethene		0.000484	U	0.000484	0.00170
1,2-Dichloropropane		0.000798	U	0.000798	0.00170
1,3-Dichloropropane		0.000798	U	0.000798	0.00170
2,2-Dichloropropane		0.000569	U	0.000569	0.00170
1,1-Dichloropropene		0.000433	U	0.000433	0.00170
Ethylbenzene		0.0155		0.000569	0.00170
2-Hexanone		0.0142	U	0.0142	0.0425
Iodomethane		0.00569	U	0.00569	0.0170
Isopropylbenzene		0.000348	U	0.000348	0.00170
Methylene bromide		0.000476	U	0.000476	0.00170
Methylene Chloride		0.000730	U	0.000730	0.00849
4-Methyl-2-pentanone (MIBK)		0.00161	U	0.00161	0.0425
Methyl tert butyl ether		0.000815	U	0.000815	0.00170
m,p-Xylene		0.0947		0.000476	0.00340
o-Xylene		0.0360		0.000569	0.00170
Styrene		0.000934	U	0.000934	0.00170
1,1,1,2-Tetrachloroethane		0.000569	U	0.000569	0.00170
Tetrachloroethene		0.000620	U	0.000620	0.00170
Toluene		0.0499		0.000628	0.00170
trans-1,2-Dichloroethene		0.000569	U	0.000569	0.00170
trans-1,3-Dichloropropene		0.000569	U	0.000569	0.00170
1,1,1-Trichloroethane		0.000781	U	0.000781	0.00170
1,1,2-Trichloroethane		0.00119	U	0.00119	0.00425
Trichloroethene		0.000815	U	0.000815	0.00170
Trichlorofluoromethane		0.000849	U	0.000849	0.00170
Vinyl acetate		0.00374	U	0.00374	0.0170

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-101-12-15

Lab Sample ID: 490-116078-6
Client Matrix: Soil

% Moisture: 8.6

Date Sampled: 11/09/2016 1115
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388454	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-386576	Lab File ID:	112116-17.D
Dilution:	1.0			Initial Weight/Volume:	6.444 g
Analysis Date:	11/21/2016 1748			Final Weight/Volume:	5.0 mL
Prep Date:	11/09/2016 1115				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl chloride		0.000934	U	0.000934	0.00170
Xylenes (total)		0.131		0.00104	0.00510

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	1155	*	70 - 130
Dibromofluoromethane (Surr)	114		70 - 130
1,2-Dichloroethane-d4 (Surr)	110		70 - 130
Toluene-d8 (Surr)	250	*	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-101-12-15

Lab Sample ID: 490-116078-6
Client Matrix: Soil

% Moisture: 8.6

Date Sampled: 11/09/2016 1115
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388454	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-386576	Lab File ID:	112116-17.D
Dilution:	1.0			Initial Weight/Volume:	6.444 g
Analysis Date:	11/21/2016 1748			Final Weight/Volume:	5.0 mL
Prep Date:	11/09/2016 1115				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.98	3.10	J N
3073-66-3	Cyclohexane, 1,1,3-trimethyl-	6.52	3.83	J N
	Unknown	6.69	7.08	J
	Unknown	7.73	13.2	J
	Unknown	7.88	5.41	J
	Unknown	8.15	4.21	J
	Unknown	8.60	6.20	J
	Unknown	8.87	4.58	J
	Unknown	8.97	7.47	J
	Unknown	9.71	3.13	J

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-101-12-15

Lab Sample ID: 490-116078-6
Client Matrix: Soil

% Moisture: 8.6

Date Sampled: 11/09/2016 1115
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388744	Instrument ID:	HP68
Prep Method:	5035A	Prep Batch:	490-386574	Lab File ID:	11221616.D
Dilution:	1.0			Initial Weight/Volume:	5.932 g
Analysis Date:	11/22/2016 1711			Final Weight/Volume:	5.0 mL
Prep Date:	11/09/2016 1115				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0366	U	0.0366	0.102
1,2-Dibromo-3-chloropropane		0.0356	U	0.0356	0.254
1,2-Dichlorobenzene		0.0173	U	0.0173	0.102
1,3-Dichlorobenzene		0.0346	U	0.0346	0.102
1,4-Dichlorobenzene		0.0478	U	0.0478	0.102
Hexachlorobutadiene		0.0559	U	0.0559	0.254
Naphthalene		0.0865	U	0.0865	0.254
n-Butylbenzene		0.0509	U	0.0509	0.102
N-Propylbenzene		0.0346	U	0.0346	0.102
o-Chlorotoluene		0.0468	U	0.0468	0.102
p-Chlorotoluene		0.0427	U	0.0427	0.102
p-Isopropyltoluene		0.0346	U	0.0346	0.102
sec-Butylbenzene		0.0346	U	0.0346	0.102
tert-Butylbenzene		0.152		0.0509	0.102
1,1,2,2-Tetrachloroethane		0.0509	U	0.0509	0.102
1,2,3-Trichlorobenzene		0.0193	U	0.0193	0.102
1,2,4-Trichlorobenzene		0.0346	U	0.0346	0.102
1,2,3-Trichloropropane		0.0285	U	0.0285	0.102
1,2,4-Trimethylbenzene		0.0509	U	0.0509	0.102
1,3,5-Trimethylbenzene		0.0387	U	0.0387	0.102

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-102-16-19

Lab Sample ID: 490-116078-7
Client Matrix: Soil

% Moisture: 10.1

Date Sampled: 11/09/2016 1145
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388454	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-386576	Lab File ID:	112116-18.D
Dilution:	1.0			Initial Weight/Volume:	3.76 g
Analysis Date:	11/21/2016 1819			Final Weight/Volume:	5.0 mL
Prep Date:	11/09/2016 1145				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.198		0.0124	0.0739
Benzene		0.00823		0.000991	0.00296
Bromochloromethane		0.000813	U	0.000813	0.00296
Bromodichloromethane		0.000813	U	0.000813	0.00296
Bromoform		0.000813	U	0.000813	0.00296
Bromomethane		0.00177	U	0.00177	0.00296
2-Butanone (MEK)		0.0429	J	0.00754	0.0739
Carbon disulfide		0.0601		0.00532	0.00739
Carbon tetrachloride		0.000991	U	0.000991	0.00296
Chlorobenzene		0.000991	U	0.000991	0.00296
Chloroethane		0.00281	U	0.00281	0.00739
Chloroform		0.000991	U	0.000991	0.00296
Chloromethane		0.000991	U	0.000991	0.00296
cis-1,2-Dichloroethene		0.000991	U	0.000991	0.00296
cis-1,3-Dichloropropene		0.000991	U	0.000991	0.00296
Dibromochloromethane		0.000503	U	0.000503	0.00296
1,2-Dibromoethane		0.00148	U	0.00148	0.00296
Dichlorodifluoromethane		0.00148	U	0.00148	0.00296
1,1-Dichloroethane		0.000991	U	0.000991	0.00296
1,2-Dichloroethane		0.000991	U	0.000991	0.00296
1,1-Dichloroethene		0.000843	U	0.000843	0.00296
1,2-Dichloropropane		0.00139	U	0.00139	0.00296
1,3-Dichloropropane		0.00139	U	0.00139	0.00296
2,2-Dichloropropane		0.000991	U	0.000991	0.00296
1,1-Dichloropropene		0.000754	U	0.000754	0.00296
Ethylbenzene		0.000991	U	0.000991	0.00296
2-Hexanone		0.0247	U	0.0247	0.0739
Iodomethane		0.00991	U	0.00991	0.0296
Isopropylbenzene		0.0194		0.000606	0.00296
Methylene bromide		0.000828	U	0.000828	0.00296
Methylene Chloride		0.00127	U	0.00127	0.0148
4-Methyl-2-pentanone (MIBK)		0.00281	U	0.00281	0.0739
Methyl tert butyl ether		0.00142	U	0.00142	0.00296
m,p-Xylene		0.000828	U	0.000828	0.00591
o-Xylene		0.000991	U	0.000991	0.00296
Styrene		0.00163	U	0.00163	0.00296
1,1,1,2-Tetrachloroethane		0.000991	U	0.000991	0.00296
Tetrachloroethene		0.00108	U	0.00108	0.00296
Toluene		0.0189		0.00109	0.00296
trans-1,2-Dichloroethene		0.000991	U	0.000991	0.00296
trans-1,3-Dichloropropene		0.000991	U	0.000991	0.00296
1,1,1-Trichloroethane		0.00136	U	0.00136	0.00296
1,1,2-Trichloroethane		0.00207	U	0.00207	0.00739
Trichloroethene		0.00142	U	0.00142	0.00296
Trichlorofluoromethane		0.00148	U	0.00148	0.00296
Vinyl acetate		0.00651	U	0.00651	0.0296

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-102-16-19

Lab Sample ID: 490-116078-7
Client Matrix: Soil

% Moisture: 10.1

Date Sampled: 11/09/2016 1145
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388454	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-386576	Lab File ID:	112116-18.D
Dilution:	1.0			Initial Weight/Volume:	3.76 g
Analysis Date:	11/21/2016 1819			Final Weight/Volume:	5.0 mL
Prep Date:	11/09/2016 1145				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl chloride		0.00163	U	0.00163	0.00296
Xylenes (total)		0.00182	U	0.00182	0.00887

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	1018	*	70 - 130
Dibromofluoromethane (Surr)	107		70 - 130
1,2-Dichloroethane-d4 (Surr)	128		70 - 130
Toluene-d8 (Surr)	314	*	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-102-16-19

Lab Sample ID: 490-116078-7
Client Matrix: Soil

% Moisture: 10.1

Date Sampled: 11/09/2016 1145
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388454	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-386576	Lab File ID:	112116-18.D
Dilution:	1.0			Initial Weight/Volume:	3.76 g
Analysis Date:	11/21/2016 1819			Final Weight/Volume:	5.0 mL
Prep Date:	11/09/2016 1145				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
	Unknown	4.91	8.02	J
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.98	6.67	J N
	Unknown	6.51	7.64	J
2234-75-5	Cyclohexane, 1,2,4-trimethyl-	6.70	9.30	J N
	Unknown	7.17	11.4	J
	Unknown	7.46	14.7	J
	Unknown	7.66	6.66	J
	Unknown	7.73	8.92	J
	Unknown	8.35	9.93	J
1678-93-9	Cyclohexane, butyl-	8.95	7.50	J N

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-102-16-19

Lab Sample ID: 490-116078-7
Client Matrix: Soil
% Moisture: 10.1

Date Sampled: 11/09/2016 1145
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388744	Instrument ID:	HP68
Prep Method:	5035A	Prep Batch:	490-386574	Lab File ID:	11221617.D
Dilution:	1.0			Initial Weight/Volume:	2.265 g
Analysis Date:	11/22/2016 1738			Final Weight/Volume:	5.0 mL
Prep Date:	11/09/2016 1145				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0924	U	0.0924	0.257
1,2-Dibromo-3-chloropropane		0.0898	U	0.0898	0.642
1,2-Dichlorobenzene		0.0436	U	0.0436	0.257
1,3-Dichlorobenzene		0.0872	U	0.0872	0.257
1,4-Dichlorobenzene		0.121	U	0.121	0.257
Hexachlorobutadiene		0.141	U	0.141	0.642
Naphthalene		0.218	U	0.218	0.642
n-Butylbenzene		0.206	J	0.128	0.257
N-Propylbenzene		0.116	J	0.0872	0.257
o-Chlorotoluene		0.118	U	0.118	0.257
p-Chlorotoluene		0.108	U	0.108	0.257
p-Isopropyltoluene		0.0872	U	0.0872	0.257
sec-Butylbenzene		0.455		0.0872	0.257
tert-Butylbenzene		0.189	J	0.128	0.257
1,1,2,2-Tetrachloroethane		0.128	U	0.128	0.257
1,2,3-Trichlorobenzene		0.0488	U	0.0488	0.257
1,2,4-Trichlorobenzene		0.0872	U	0.0872	0.257
1,2,3-Trichloropropane		0.0718	U	0.0718	0.257
1,2,4-Trimethylbenzene		0.321		0.128	0.257
1,3,5-Trimethylbenzene		0.0975	U	0.0975	0.257

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-401

Lab Sample ID: 490-116078-8
Client Matrix: Soil

% Moisture: 13.4

Date Sampled: 11/10/2016 1300
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388454	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-386576	Lab File ID:	112116-19.D
Dilution:	1.0			Initial Weight/Volume:	4.634 g
Analysis Date:	11/21/2016 1850			Final Weight/Volume:	5.0 mL
Prep Date:	11/10/2016 1300				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.450		0.0105	0.0623
Benzene		0.00238	J	0.000835	0.00249
Bromobenzene		0.000897	U	0.000897	0.00249
Bromochloromethane		0.000686	U	0.000686	0.00249
Bromodichloromethane		0.000686	U	0.000686	0.00249
Bromoform		0.000686	U	0.000686	0.00249
Bromomethane		0.00150	U	0.00150	0.00249
2-Butanone (MEK)		0.0332	J	0.00636	0.0623
Carbon disulfide		0.00449	U	0.00449	0.00623
Carbon tetrachloride		0.000835	U	0.000835	0.00249
Chlorobenzene		0.000835	U	0.000835	0.00249
Chloroethane		0.00237	U	0.00237	0.00623
Chloroform		0.000835	U	0.000835	0.00249
Chloromethane		0.000835	U	0.000835	0.00249
cis-1,2-Dichloroethene		0.000835	U	0.000835	0.00249
cis-1,3-Dichloropropene		0.000835	U	0.000835	0.00249
Dibromochloromethane		0.000424	U	0.000424	0.00249
1,2-Dibromo-3-chloropropane		0.000873	U	0.000873	0.00623
1,2-Dibromoethane		0.00125	U	0.00125	0.00249
1,2-Dichlorobenzene		0.000424	U	0.000424	0.00249
1,3-Dichlorobenzene		0.000835	U	0.000835	0.00249
1,4-Dichlorobenzene		0.000835	U	0.000835	0.00249
Dichlorodifluoromethane		0.00125	U	0.00125	0.00249
1,1-Dichloroethane		0.000835	U	0.000835	0.00249
1,2-Dichloroethane		0.000835	U	0.000835	0.00249
1,1-Dichloroethene		0.000710	U	0.000710	0.00249
1,2-Dichloropropane		0.00117	U	0.00117	0.00249
1,3-Dichloropropane		0.00117	U	0.00117	0.00249
2,2-Dichloropropane		0.000835	U	0.000835	0.00249
1,1-Dichloropropene		0.000636	U	0.000636	0.00249
Ethylbenzene		0.000835	U	0.000835	0.00249
Hexachlorobutadiene		0.00142	U	0.00142	0.00623
2-Hexanone		0.0208	U	0.0208	0.0623
Iodomethane		0.00835	U	0.00835	0.0249
Isopropylbenzene		0.000511	U	0.000511	0.00249
Methylene bromide		0.000698	U	0.000698	0.00249
Methylene Chloride		0.00107	U	0.00107	0.0125
4-Methyl-2-pentanone (MIBK)		0.00237	U	0.00237	0.0623
Methyl tert butyl ether		0.00120	U	0.00120	0.00249
m,p-Xylene		0.00170	J	0.000698	0.00499
Naphthalene		0.00212	U	0.00212	0.00623
n-Butylbenzene		0.00122	U	0.00122	0.00249
N-Propylbenzene		0.000835	U	0.000835	0.00249
o-Chlorotoluene		0.00111	U	0.00111	0.00249
o-Xylene		0.000835	U	0.000835	0.00249
p-Chlorotoluene		0.00105	U	0.00105	0.00249

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-401

Lab Sample ID: 490-116078-8
Client Matrix: Soil

% Moisture: 13.4

Date Sampled: 11/10/2016 1300
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388454	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-386576	Lab File ID:	112116-19.D
Dilution:	1.0			Initial Weight/Volume:	4.634 g
Analysis Date:	11/21/2016 1850			Final Weight/Volume:	5.0 mL
Prep Date:	11/10/2016 1300				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000835	U	0.000835	0.00249
sec-Butylbenzene		0.000835	U	0.000835	0.00249
Styrene		0.00137	U	0.00137	0.00249
tert-Butylbenzene		0.00112	U	0.00112	0.00249
1,1,1,2-Tetrachloroethane		0.000835	U	0.000835	0.00249
1,1,2,2-Tetrachloroethane		0.00125	U	0.00125	0.00249
Tetrachloroethene		0.000910	U	0.000910	0.00249
Toluene		0.00168	J	0.000922	0.00249
trans-1,2-Dichloroethene		0.000835	U	0.000835	0.00249
trans-1,3-Dichloropropene		0.000835	U	0.000835	0.00249
1,2,3-Trichlorobenzene		0.000474	U	0.000474	0.00249
1,2,4-Trichlorobenzene		0.000835	U	0.000835	0.00249
1,1,1-Trichloroethane		0.00115	U	0.00115	0.00249
1,1,2-Trichloroethane		0.00175	U	0.00175	0.00623
Trichloroethene		0.00120	U	0.00120	0.00249
Trichlorofluoromethane		0.00125	U	0.00125	0.00249
1,2,3-Trichloropropane		0.000686	U	0.000686	0.00249
1,2,4-Trimethylbenzene		0.00125	U	0.00125	0.00249
1,3,5-Trimethylbenzene		0.000935	U	0.000935	0.00249
Vinyl acetate		0.00548	U	0.00548	0.0249
Vinyl chloride		0.00137	U	0.00137	0.00249
Xylenes (total)		0.00170	J	0.00153	0.00748

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
Toluene-d8 (Surr)	113		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-401

Lab Sample ID: 490-116078-8
Client Matrix: Soil

% Moisture: 13.4

Date Sampled: 11/10/2016 1300
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388454	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-386576	Lab File ID:	112116-19.D
Dilution:	1.0			Initial Weight/Volume:	4.634 g
Analysis Date:	11/21/2016 1850			Final Weight/Volume:	5.0 mL
Prep Date:	11/10/2016 1300				

Tentatively Identified Compounds **Number TIC's Found: 9**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
110-62-3	Pentanal	4.98	0.0145	J N
	Unknown	7.68	0.0140	J
	Unknown	8.91	0.0158	J
	Unknown	10.96	0.0145	J
	Unknown	11.95	0.0189	J
	Unknown	12.54	0.0178	J
	Unknown	12.82	0.0211	J
	Unknown	13.28	0.0203	J
	Unknown	13.80	0.0178	J

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-103-12-14

Lab Sample ID: 490-116078-9
Client Matrix: Soil
% Moisture: 9.6

Date Sampled: 11/09/2016 1200
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388454	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-386576	Lab File ID:	112116-20.D
Dilution:	1.0			Initial Weight/Volume:	6.016 g
Analysis Date:	11/21/2016 1921			Final Weight/Volume:	5.0 mL
Prep Date:	11/09/2016 1200				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.202		0.00772	0.0459
Benzene		0.00185		0.000616	0.00184
Bromochloromethane		0.000505	U	0.000505	0.00184
Bromodichloromethane		0.000505	U	0.000505	0.00184
Bromomethane		0.00110	U	0.00110	0.00184
2-Butanone (MEK)		0.0512		0.00469	0.0459
Carbon disulfide		0.0261		0.00331	0.00459
Carbon tetrachloride		0.000616	U	0.000616	0.00184
Chloroethane		0.00175	U	0.00175	0.00459
Chloroform		0.000616	U	0.000616	0.00184
Chloromethane		0.000616	U	0.000616	0.00184
cis-1,2-Dichloroethene		0.000616	U	0.000616	0.00184
Dichlorodifluoromethane		0.000919	U	0.000919	0.00184
1,1-Dichloroethane		0.000616	U	0.000616	0.00184
1,2-Dichloroethane		0.000616	U	0.000616	0.00184
1,1-Dichloroethene		0.000524	U	0.000524	0.00184
1,2-Dichloropropane		0.000864	U	0.000864	0.00184
2,2-Dichloropropane		0.000616	U	0.000616	0.00184
1,1-Dichloropropene		0.000469	U	0.000469	0.00184
Iodomethane		0.00616	U	0.00616	0.0184
Methylene bromide		0.000515	U	0.000515	0.00184
Methylene Chloride		0.000790	U	0.000790	0.00919
Methyl tert butyl ether		0.000882	U	0.000882	0.00184
trans-1,2-Dichloroethene		0.000616	U	0.000616	0.00184
1,1,1-Trichloroethane		0.000845	U	0.000845	0.00184
Trichloroethene		0.000882	U	0.000882	0.00184
Trichlorofluoromethane		0.000919	U	0.000919	0.00184
Vinyl acetate		0.00404	U	0.00404	0.0184
Vinyl chloride		0.00101	U	0.00101	0.00184

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	1037	*	70 - 130
Dibromofluoromethane (Surr)	109		70 - 130
1,2-Dichloroethane-d4 (Surr)	126		70 - 130
Toluene-d8 (Surr)	797	*	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-103-12-14

Lab Sample ID: 490-116078-9
Client Matrix: Soil

% Moisture: 9.6

Date Sampled: 11/09/2016 1200
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388454	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-386576	Lab File ID:	112116-20.D
Dilution:	1.0			Initial Weight/Volume:	6.016 g
Analysis Date:	11/21/2016 1921			Final Weight/Volume:	5.0 mL
Prep Date:	11/09/2016 1200				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
67-63-0	Isopropyl alcohol	2.71	0.0729	
108-87-2	Methylcyclohexane	4.94	3.03	E
	Unknown	7.16	0.129	J
	Unknown	7.45	0.159	J
	Unknown	7.66	0.0954	J
	Unknown	7.73	0.120	J
	Unknown	7.88	0.128	J
	Unknown	8.14	0.103	J
	Unknown	8.36	0.217	J
	Unknown	8.87	0.115	J

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-103-12-14

Lab Sample ID: 490-116078-9
Client Matrix: Soil

% Moisture: 9.6

Date Sampled: 11/09/2016 1200
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388744	Instrument ID:	HP68
Prep Method:	5035A	Prep Batch:	490-386574	Lab File ID:	11221618.D
Dilution:	1.0			Initial Weight/Volume:	5.16 g
Analysis Date:	11/22/2016 1806			Final Weight/Volume:	5.0 mL
Prep Date:	11/09/2016 1200				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0424	U	0.0424	0.118
Bromoform		0.0330	U	0.0330	0.118
Chlorobenzene		0.0400	U	0.0400	0.118
cis-1,3-Dichloropropene		0.0400	U	0.0400	0.118
Dibromochloromethane		0.0200	U	0.0200	0.118
1,2-Dibromo-3-chloropropane		0.0412	U	0.0412	0.294
1,2-Dibromoethane		0.0589	U	0.0589	0.118
1,2-Dichlorobenzene		0.0200	U	0.0200	0.118
1,3-Dichlorobenzene		0.0400	U	0.0400	0.118
1,4-Dichlorobenzene		0.0553	U	0.0553	0.118
1,3-Dichloropropane		0.0553	U	0.0553	0.118
Ethylbenzene		0.0400	U	0.0400	0.118
Hexachlorobutadiene		0.0647	U	0.0647	0.294
2-Hexanone		0.989	U	0.989	2.94
Isopropylbenzene		0.0247	U	0.0247	0.118
4-Methyl-2-pentanone (MIBK)		1.00	U	1.00	2.94
m,p-Xylene		0.0330	U	0.0330	0.177
Naphthalene		0.100	U	0.100	0.294
n-Butylbenzene		0.0589	U	0.0589	0.118
N-Propylbenzene		0.0400	U	0.0400	0.118
o-Chlorotoluene		0.0541	U	0.0541	0.118
o-Xylene		0.0400	U	0.0400	0.118
p-Chlorotoluene		0.0494	U	0.0494	0.118
p-Isopropyltoluene		0.0400	U	0.0400	0.118
sec-Butylbenzene		0.0400	U	0.0400	0.118
Styrene		0.0647	U	0.0647	0.118
tert-Butylbenzene		0.188		0.0589	0.118
1,1,1,2-Tetrachloroethane		0.0400	U	0.0400	0.118
1,1,2,2-Tetrachloroethane		0.0589	U	0.0589	0.118
Tetrachloroethene		0.0400	U	0.0400	0.118
Toluene		0.0436	U	0.0436	0.118
trans-1,3-Dichloropropene		0.0400	U	0.0400	0.118
1,2,3-Trichlorobenzene		0.0224	U	0.0224	0.118
1,2,4-Trichlorobenzene		0.0400	U	0.0400	0.118
1,1,2-Trichloroethane		0.0824	U	0.0824	0.294
1,2,3-Trichloropropane		0.0330	U	0.0330	0.118
1,2,4-Trimethylbenzene		0.0589	U	0.0589	0.118
1,3,5-Trimethylbenzene		0.0447	U	0.0447	0.118
Xylenes (total)		0.0730	U	0.0730	0.177

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	104		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-400

Lab Sample ID: 490-116078-10
Client Matrix: Soil

% Moisture: 23.9

Date Sampled: 11/10/2016 1045
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388454	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-386576	Lab File ID:	112116-21.D
Dilution:	1.0			Initial Weight/Volume:	6.316 g
Analysis Date:	11/21/2016 1952			Final Weight/Volume:	5.0 mL
Prep Date:	11/10/2016 1045				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.112		0.00873	0.0520
Benzene		0.00677		0.000697	0.00208
Bromochloromethane		0.000572	U	0.000572	0.00208
Bromodichloromethane		0.000572	U	0.000572	0.00208
Bromoform		0.000572	U	0.000572	0.00208
Bromomethane		0.00125	U	0.00125	0.00208
2-Butanone (MEK)		0.0191	J	0.00530	0.0520
Carbon disulfide		0.00949		0.00374	0.00520
Carbon tetrachloride		0.000697	U	0.000697	0.00208
Chlorobenzene		0.000697	U	0.000697	0.00208
Chloroethane		0.00198	U	0.00198	0.00520
Chloroform		0.000697	U	0.000697	0.00208
Chloromethane		0.000697	U	0.000697	0.00208
cis-1,2-Dichloroethene		0.000697	U	0.000697	0.00208
cis-1,3-Dichloropropene		0.000697	U	0.000697	0.00208
Dibromochloromethane		0.000354	U	0.000354	0.00208
1,2-Dibromoethane		0.00104	U	0.00104	0.00208
Dichlorodifluoromethane		0.00104	U	0.00104	0.00208
1,1-Dichloroethane		0.000697	U	0.000697	0.00208
1,2-Dichloroethane		0.000697	U	0.000697	0.00208
1,1-Dichloroethene		0.000593	U	0.000593	0.00208
1,2-Dichloropropane		0.000977	U	0.000977	0.00208
1,3-Dichloropropane		0.000977	U	0.000977	0.00208
2,2-Dichloropropane		0.000697	U	0.000697	0.00208
1,1-Dichloropropene		0.000530	U	0.000530	0.00208
Ethylbenzene		0.00932		0.000697	0.00208
2-Hexanone		0.0174	U	0.0174	0.0520
Iodomethane		0.00697	U	0.00697	0.0208
Isopropylbenzene		0.00451		0.000426	0.00208
Methylene bromide		0.000582	U	0.000582	0.00208
Methylene Chloride		0.000894	U	0.000894	0.0104
4-Methyl-2-pentanone (MIBK)		0.00198	U	0.00198	0.0520
Methyl tert butyl ether		0.000998	U	0.000998	0.00208
m,p-Xylene		0.0356		0.000582	0.00416
o-Xylene		0.0115		0.000697	0.00208
Styrene		0.00114	U	0.00114	0.00208
1,1,1,2-Tetrachloroethane		0.000697	U	0.000697	0.00208
Tetrachloroethene		0.000759	U	0.000759	0.00208
Toluene		0.00623		0.000770	0.00208
trans-1,2-Dichloroethene		0.000697	U	0.000697	0.00208
trans-1,3-Dichloropropene		0.000697	U	0.000697	0.00208
1,1,1-Trichloroethane		0.000957	U	0.000957	0.00208
1,1,2-Trichloroethane		0.00146	U	0.00146	0.00520
Trichloroethene		0.000998	U	0.000998	0.00208
Trichlorofluoromethane		0.00104	U	0.00104	0.00208
Vinyl acetate		0.00458	U	0.00458	0.0208

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-400

Lab Sample ID: 490-116078-10
Client Matrix: Soil

% Moisture: 23.9

Date Sampled: 11/10/2016 1045
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388454	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-386576	Lab File ID:	112116-21.D
Dilution:	1.0			Initial Weight/Volume:	6.316 g
Analysis Date:	11/21/2016 1952			Final Weight/Volume:	5.0 mL
Prep Date:	11/10/2016 1045				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl chloride		0.00114	U	0.00114	0.00208
Xylenes (total)		0.0471		0.00128	0.00624

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	385	*	70 - 130
Dibromofluoromethane (Surr)	116		70 - 130
1,2-Dichloroethane-d4 (Surr)	113		70 - 130
Toluene-d8 (Surr)	335	*	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-400

Lab Sample ID: 490-116078-10
Client Matrix: Soil % Moisture: 23.9

Date Sampled: 11/10/2016 1045
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388454	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-386576	Lab File ID:	112116-21.D
Dilution:	1.0			Initial Weight/Volume:	6.316 g
Analysis Date:	11/21/2016 1952			Final Weight/Volume:	5.0 mL
Prep Date:	11/10/2016 1045				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
15890-40-1	Cyclopentane, 1,2,3-trimethyl-, (1.alpha.,2.alpha.,3.beta.)-	5.22	176	J N
2207-03-6	Cyclohexane, 1,3-dimethyl-, trans-	5.97	295	J N
1072-05-5	Heptane, 2,6-dimethyl-	6.21	175	J N
3073-66-3	Cyclohexane, 1,1,3-trimethyl-	6.50	680	J N
	Unknown	6.61	273	J
7667-60-9	Cyclohexane, 1,2,4-trimethyl-, (1.alpha.,2.beta.,4.beta.)-	6.69	194	J N
5911-04-6	Nonane, 3-methyl-	7.58	263	J N
	Unknown	7.71	778	J
4292-92-6	Cyclohexane, pentyl-	10.15	189	J N
95-93-2	Benzene, 1,2,4,5-tetramethyl-	10.80	244	J N

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-400

Lab Sample ID: 490-116078-10
Client Matrix: Soil

% Moisture: 23.9

Date Sampled: 11/10/2016 1045
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388744	Instrument ID:	HP68
Prep Method:	5035A	Prep Batch:	490-386574	Lab File ID:	11221619.D
Dilution:	1.0			Initial Weight/Volume:	5.226 g
Analysis Date:	11/22/2016 1833			Final Weight/Volume:	5.0 mL
Prep Date:	11/10/2016 1045				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0565	U	0.0565	0.157
1,2-Dibromo-3-chloropropane		0.0550	U	0.0550	0.393
1,2-Dichlorobenzene		0.0267	U	0.0267	0.157
1,3-Dichlorobenzene		0.0534	U	0.0534	0.157
1,4-Dichlorobenzene		0.0738	U	0.0738	0.157
Hexachlorobutadiene		0.0864	U	0.0864	0.393
Naphthalene		0.333	J	0.133	0.393
n-Butylbenzene		0.394		0.0785	0.157
N-Propylbenzene		0.0534	U	0.0534	0.157
o-Chlorotoluene		0.0722	U	0.0722	0.157
p-Chlorotoluene		0.0660	U	0.0660	0.157
p-Isopropyltoluene		0.0534	U	0.0534	0.157
sec-Butylbenzene		0.260		0.0534	0.157
tert-Butylbenzene		0.0785	U	0.0785	0.157
1,1,2,2-Tetrachloroethane		0.0785	U	0.0785	0.157
1,2,3-Trichlorobenzene		0.0298	U	0.0298	0.157
1,2,4-Trichlorobenzene		0.0534	U	0.0534	0.157
1,2,3-Trichloropropane		0.0440	U	0.0440	0.157
1,2,4-Trimethylbenzene		0.0785	U	0.0785	0.157
1,3,5-Trimethylbenzene		0.0597	U	0.0597	0.157

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-405

Lab Sample ID: 490-116078-11
Client Matrix: Soil

% Moisture: 16.0

Date Sampled: 11/11/2016 1315
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388748	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-386576	Lab File ID:	112216-16.D
Dilution:	1.0			Initial Weight/Volume:	8.903 g
Analysis Date:	11/22/2016 1740			Final Weight/Volume:	5.0 mL
Prep Date:	11/11/2016 1315				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.120		0.00562	0.0334
Benzene		0.00192		0.000448	0.00134
Bromochloromethane		0.000368	U	0.000368	0.00134
Bromodichloromethane		0.000368	U	0.000368	0.00134
Bromoform		0.000368	U	0.000368	0.00134
Bromomethane		0.000803	U	0.000803	0.00134
2-Butanone (MEK)		0.0177	J	0.00341	0.0334
Carbon disulfide		0.0354		0.00241	0.00334
Carbon tetrachloride		0.000448	U	0.000448	0.00134
Chlorobenzene		0.000448	U	0.000448	0.00134
Chloroethane		0.00127	U	0.00127	0.00334
Chloroform		0.000448	U	0.000448	0.00134
Chloromethane		0.000448	U	0.000448	0.00134
cis-1,2-Dichloroethene		0.000448	U	0.000448	0.00134
cis-1,3-Dichloropropene		0.000448	U	0.000448	0.00134
Dibromochloromethane		0.000227	U	0.000227	0.00134
1,2-Dibromoethane		0.000669	U	0.000669	0.00134
Dichlorodifluoromethane		0.000669	U	0.000669	0.00134
1,1-Dichloroethane		0.000448	U	0.000448	0.00134
1,2-Dichloroethane		0.000448	U	0.000448	0.00134
1,1-Dichloroethene		0.000381	U	0.000381	0.00134
1,2-Dichloropropane		0.000629	U	0.000629	0.00134
1,3-Dichloropropane		0.000629	U	0.000629	0.00134
2,2-Dichloropropane		0.000448	U	0.000448	0.00134
1,1-Dichloropropene		0.000341	U	0.000341	0.00134
Ethylbenzene		0.000448	U	0.000448	0.00134
2-Hexanone		0.0112	U	0.0112	0.0334
Iodomethane		0.00448	U	0.00448	0.0134
Isopropylbenzene		0.0791		0.000274	0.00134
Methylene bromide		0.000375	U	0.000375	0.00134
Methylene Chloride		0.000575	U	0.000575	0.00669
4-Methyl-2-pentanone (MIBK)		0.00127	U	0.00127	0.0334
Methyl tert butyl ether		0.000642	U	0.000642	0.00134
m,p-Xylene		0.0241		0.000375	0.00268
o-Xylene		0.0119		0.000448	0.00134
Styrene		0.000736	U	0.000736	0.00134
1,1,1,2-Tetrachloroethane		0.000448	U	0.000448	0.00134
Tetrachloroethene		0.000488	U *	0.000488	0.00134
Toluene		0.00323		0.000495	0.00134
trans-1,2-Dichloroethene		0.000448	U	0.000448	0.00134
trans-1,3-Dichloropropene		0.000448	U	0.000448	0.00134
1,1,1-Trichloroethane		0.000615	U	0.000615	0.00134
1,1,2-Trichloroethane		0.000936	U	0.000936	0.00334
Trichloroethene		0.000642	U	0.000642	0.00134
Trichlorofluoromethane		0.000669	U	0.000669	0.00134
Vinyl acetate		0.00294	U *	0.00294	0.0134

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-405

Lab Sample ID: 490-116078-11
Client Matrix: Soil

% Moisture: 16.0

Date Sampled: 11/11/2016 1315
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388748	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-386576	Lab File ID:	112216-16.D
Dilution:	1.0			Initial Weight/Volume:	8.903 g
Analysis Date:	11/22/2016 1740			Final Weight/Volume:	5.0 mL
Prep Date:	11/11/2016 1315				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl chloride		0.000736	U	0.000736	0.00134
Xylenes (total)		0.0360		0.000823	0.00401

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	502	*	70 - 130
Dibromofluoromethane (Surr)	111		70 - 130
1,2-Dichloroethane-d4 (Surr)	120		70 - 130
Toluene-d8 (Surr)	302	*	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-405

Lab Sample ID: 490-116078-11
Client Matrix: Soil % Moisture: 16.0

Date Sampled: 11/11/2016 1315
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388748	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-386576	Lab File ID:	112216-16.D
Dilution:	1.0			Initial Weight/Volume:	8.903 g
Analysis Date:	11/22/2016 1740			Final Weight/Volume:	5.0 mL
Prep Date:	11/11/2016 1315				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
110-82-7	Cyclohexane	4.13	0.617	E
108-87-2	Methylcyclohexane	4.94	0.383	E
	Unknown	5.83	0.197	J
583-57-3	Cyclohexane, 1,2-dimethyl-	5.98	0.313	J N
	Unknown	6.51	0.399	J
	Unknown	7.72	0.545	J
6783-92-2	Cyclohexane, 1,1,2,3-tetramethyl-	8.14	0.195	J N
	Unknown	9.71	0.247	J
	Unknown	10.17	0.281	J
	Unknown	11.45	0.217	J

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-405

Lab Sample ID: 490-116078-11
Client Matrix: Soil

% Moisture: 16.0

Date Sampled: 11/11/2016 1315
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388744	Instrument ID:	HP68
Prep Method:	5035A	Prep Batch:	490-386574	Lab File ID:	11221615.D
Dilution:	1.0			Initial Weight/Volume:	5.104 g
Analysis Date:	11/22/2016 1643			Final Weight/Volume:	5.0 mL
Prep Date:	11/11/2016 1315				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0489	U	0.0489	0.136
1,2-Dibromo-3-chloropropane		0.0475	U	0.0475	0.339
1,2-Dichlorobenzene		0.0231	U	0.0231	0.136
1,3-Dichlorobenzene		0.0462	U	0.0462	0.136
1,4-Dichlorobenzene		0.0638	U	0.0638	0.136
Hexachlorobutadiene		0.0747	U	0.0747	0.339
Naphthalene		0.115	U	0.115	0.339
n-Butylbenzene		0.368		0.0679	0.136
N-Propylbenzene		0.347		0.0462	0.136
o-Chlorotoluene		0.0625	U	0.0625	0.136
p-Chlorotoluene		0.0570	U	0.0570	0.136
p-Isopropyltoluene		0.119	J	0.0462	0.136
sec-Butylbenzene		0.453		0.0462	0.136
tert-Butylbenzene		0.0686	J	0.0679	0.136
1,1,2,2-Tetrachloroethane		0.0679	U	0.0679	0.136
1,2,3-Trichlorobenzene		0.0258	U	0.0258	0.136
1,2,4-Trichlorobenzene		0.0462	U	0.0462	0.136
1,2,3-Trichloropropane		0.0380	U	0.0380	0.136
1,2,4-Trimethylbenzene		0.0835	J	0.0679	0.136
1,3,5-Trimethylbenzene		0.0516	U	0.0516	0.136

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-404

Lab Sample ID: 490-116078-12
Client Matrix: Soil

% Moisture: 24.9

Date Sampled: 11/11/2016 1115
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388454	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-386576	Lab File ID:	112116-22.D
Dilution:	1.0			Initial Weight/Volume:	6.544 g
Analysis Date:	11/21/2016 2023			Final Weight/Volume:	5.0 mL
Prep Date:	11/11/2016 1115				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.276		0.00855	0.0509
Benzene		0.00559		0.000682	0.00203
Bromochloromethane		0.000560	U	0.000560	0.00203
Bromodichloromethane		0.000560	U	0.000560	0.00203
Bromomethane		0.00122	U	0.00122	0.00203
2-Butanone (MEK)		0.0404	J	0.00519	0.0509
Carbon disulfide		0.0206		0.00366	0.00509
Carbon tetrachloride		0.000682	U	0.000682	0.00203
Chloroethane		0.00193	U	0.00193	0.00509
Chloroform		0.000682	U	0.000682	0.00203
Chloromethane		0.000682	U	0.000682	0.00203
cis-1,2-Dichloroethene		0.000682	U	0.000682	0.00203
Dichlorodifluoromethane		0.00102	U	0.00102	0.00203
1,1-Dichloroethane		0.000682	U	0.000682	0.00203
1,2-Dichloroethane		0.000682	U	0.000682	0.00203
1,1-Dichloroethene		0.000580	U	0.000580	0.00203
1,2-Dichloropropane		0.000956	U	0.000956	0.00203
2,2-Dichloropropane		0.000682	U	0.000682	0.00203
1,1-Dichloropropene		0.000519	U	0.000519	0.00203
Iodomethane		0.00682	U	0.00682	0.0203
Methylene bromide		0.000570	U	0.000570	0.00203
Methylene Chloride		0.000875	U	0.000875	0.0102
Methyl tert butyl ether		0.000977	U	0.000977	0.00203
trans-1,2-Dichloroethene		0.000682	U	0.000682	0.00203
1,1,1-Trichloroethane		0.000936	U	0.000936	0.00203
Trichloroethene		0.000977	U	0.000977	0.00203
Trichlorofluoromethane		0.00102	U	0.00102	0.00203
Vinyl acetate		0.00448	U	0.00448	0.0203
Vinyl chloride		0.00112	U	0.00112	0.00203

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	806	*	70 - 130
Dibromofluoromethane (Surr)	122		70 - 130
1,2-Dichloroethane-d4 (Surr)	128		70 - 130
Toluene-d8 (Surr)	537	*	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-404

Lab Sample ID: 490-116078-12
Client Matrix: Soil

% Moisture: 24.9

Date Sampled: 11/11/2016 1115
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388454	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-386576	Lab File ID:	112116-22.D
Dilution:	1.0			Initial Weight/Volume:	6.544 g
Analysis Date:	11/21/2016 2023			Final Weight/Volume:	5.0 mL
Prep Date:	11/11/2016 1115				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
108-87-2	Methylcyclohexane	4.94	1.36	E
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.97	1.19	J N
2207-04-7	Cyclohexane, 1,4-dimethyl-, trans-	6.07	1.42	J N
2216-30-0	Heptane, 2,5-dimethyl-	6.32	0.893	J N
1678-91-7	Cyclohexane, ethyl-	6.45	1.60	J N
3073-66-3	Cyclohexane, 1,1,3-trimethyl-	6.50	1.48	J N
7667-60-9	Cyclohexane, 1,2,4-trimethyl-, (1.alpha.,2.beta.,4.beta.)-	6.69	1.27	J N
1678-92-8	Cyclohexane, propyl-	7.71	2.97	J N
	Unknown	8.64	0.913	J
	Unknown	9.70	0.869	J

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-404

Lab Sample ID: 490-116078-12
Client Matrix: Soil

% Moisture: 24.9

Date Sampled: 11/11/2016 1115
Date Received: 11/12/2016 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-388744	Instrument ID:	HP68
Prep Method:	5035A	Prep Batch:	490-386574	Lab File ID:	11221620.D
Dilution:	1.0			Initial Weight/Volume:	3.468 g
Analysis Date:	11/22/2016 1901			Final Weight/Volume:	5.0 mL
Prep Date:	11/11/2016 1115				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0810	U	0.0810	0.225
Bromoform		0.0630	U	0.0630	0.225
Chlorobenzene		0.0765	U	0.0765	0.225
cis-1,3-Dichloropropene		0.0765	U	0.0765	0.225
Dibromochloromethane		0.0383	U	0.0383	0.225
1,2-Dibromo-3-chloropropane		0.0788	U	0.0788	0.563
1,2-Dibromoethane		0.113	U	0.113	0.225
1,2-Dichlorobenzene		0.0383	U	0.0383	0.225
1,3-Dichlorobenzene		0.0765	U	0.0765	0.225
1,4-Dichlorobenzene		0.106	U	0.106	0.225
1,3-Dichloropropane		0.106	U	0.106	0.225
Ethylbenzene		0.211	J	0.0765	0.225
Hexachlorobutadiene		0.124	U	0.124	0.563
2-Hexanone		1.89	U	1.89	5.63
Isopropylbenzene		0.0935	J	0.0473	0.225
4-Methyl-2-pentanone (MIBK)		1.91	U	1.91	5.63
m,p-Xylene		1.39		0.0630	0.338
Naphthalene		0.214	J	0.191	0.563
n-Butylbenzene		0.204	J	0.113	0.225
N-Propylbenzene		0.181	J	0.0765	0.225
o-Chlorotoluene		0.104	U	0.104	0.225
o-Xylene		0.170	J	0.0765	0.225
p-Chlorotoluene		0.0945	U	0.0945	0.225
p-Isopropyltoluene		0.0765	U	0.0765	0.225
sec-Butylbenzene		0.350		0.0765	0.225
Styrene		0.124	U	0.124	0.225
tert-Butylbenzene		0.430		0.113	0.225
1,1,1,2-Tetrachloroethane		0.0765	U	0.0765	0.225
1,1,2,2-Tetrachloroethane		0.113	U	0.113	0.225
Tetrachloroethene		0.0765	U	0.0765	0.225
Toluene		0.362		0.0833	0.225
trans-1,3-Dichloropropene		0.0765	U	0.0765	0.225
1,2,3-Trichlorobenzene		0.0428	U	0.0428	0.225
1,2,4-Trichlorobenzene		0.0765	U	0.0765	0.225
1,1,2-Trichloroethane		0.158	U	0.158	0.563
1,2,3-Trichloropropane		0.0630	U	0.0630	0.225
1,2,4-Trimethylbenzene		0.430		0.113	0.225
1,3,5-Trimethylbenzene		0.0867	J	0.0855	0.225
Xylenes (total)		1.56		0.140	0.338

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
Toluene-d8 (Surr)	104		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-402

Lab Sample ID: 490-116078-1
Client Matrix: Soil

% Moisture: 33.4

Date Sampled: 11/10/2016 1310
Date Received: 11/12/2016 0950

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-388250	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-387989	Lab File ID:	111916-022.D
Dilution:	1.0			Initial Weight/Volume:	45.33 g
Analysis Date:	11/19/2016 2042			Final Weight/Volume:	1 mL
Prep Date:	11/18/2016 1300			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0318	U	0.0318	0.0666
Acenaphthylene		0.0288	U	0.0288	0.0666
Aniline		0.251	U	0.251	0.666
Anthracene		0.0288	U	0.0288	0.0666
Benzidine		0.203	U	0.203	0.331
Benzo(a)anthracene		0.0298	U	0.0298	0.0666
Benzo(a)pyrene		0.0268	U	0.0268	0.0666
Benzo(b)fluoranthene		0.0278	U	0.0278	0.0666
Benzo(g,h,i)perylene		0.0328	U	0.0328	0.0666
Benzoic acid		0.152	J	0.0596	0.331
Benzo(k)fluoranthene		0.0268	U	0.0268	0.0666
Benzyl alcohol		0.193	U	0.193	0.331
Bis(2-chloroethoxy)methane		0.199	U	0.199	0.331
Bis(2-chloroethyl)ether		0.212	U	0.212	0.331
bis (2-chloroisopropyl) ether		0.197	U	0.197	0.331
Bis(2-ethylhexyl)phthalate		0.206	U	0.206	0.331
4-Bromophenyl phenyl ether		0.204	U	0.204	0.331
Butyl benzyl phthalate		0.214	U	0.214	0.331
Carbazole		0.206	U	0.206	0.331
4-Chloroaniline		0.226	U	0.226	0.331
4-Chloro-3-methylphenol		0.167	U	0.167	0.331
2-Chloronaphthalene		0.208	U	0.208	0.331
2-Chlorophenol		0.190	U	0.190	0.331
4-Chlorophenyl phenyl ether		0.200	U	0.200	0.331
Chrysene		0.0368	U	0.0368	0.0666
Dibenzo(a,h)anthracene		0.0318	U	0.0318	0.0666
Dibenzofuran		0.209	U	0.209	0.331
1,2-Dichlorobenzene		0.189	U	0.189	0.331
1,3-Dichlorobenzene		0.189	U	0.189	0.331
1,4-Dichlorobenzene		0.195	U	0.195	0.331
3,3'-Dichlorobenzidine		0.203	U	0.203	0.666
2,4-Dichlorophenol		0.174	U	0.174	0.331
Diethyl phthalate		0.211	U	0.211	0.331
2,4-Dimethylphenol		0.333	U	0.333	0.666
Dimethyl phthalate		0.206	U	0.206	0.331
Di-n-butyl phthalate		0.210	U	0.210	0.331
4,6-Dinitro-o-cresol		0.228	U	0.228	0.331
2,4-Dinitrophenol		0.249	U	0.249	0.331
2,4-Dinitrotoluene		0.207	U	0.207	0.331
2,6-Dinitrotoluene		0.222	U	0.222	0.331
Di-n-octyl phthalate		0.177	U	0.177	0.331
1,2-Diphenylhydrazine (as Azobenzene)		0.233	U	0.233	0.331
Fluoranthene		0.0338	U	0.0338	0.0666
Fluorene		0.0288	U	0.0288	0.0666
Hexachlorobenzene		0.248	U	0.248	0.331
Hexachlorobutadiene		0.166	U	0.166	0.331

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-402

Lab Sample ID: 490-116078-1
Client Matrix: Soil
% Moisture: 33.4

Date Sampled: 11/10/2016 1310
Date Received: 11/12/2016 0950

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-388250	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-387989	Lab File ID:	111916-022.D
Dilution:	1.0			Initial Weight/Volume:	45.33 g
Analysis Date:	11/19/2016 2042			Final Weight/Volume:	1 mL
Prep Date:	11/18/2016 1300			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.149	U	0.149	0.331
Hexachloroethane		0.180	U	0.180	0.331
Ideno(1,2,3-cd)pyrene		0.0288	U	0.0288	0.0666
Isophorone		0.187	U	0.187	0.331
1-Methylnaphthalene		0.0278	U	0.0278	0.0666
2-Methylnaphthalene		0.0258	U	0.0258	0.0666
Naphthalene		0.0288	U	0.0288	0.0666
2-Nitroaniline		0.206	U	0.206	0.331
3-Nitroaniline		0.229	U	0.229	0.666
4-Nitroaniline		0.236	U	0.236	0.666
Nitrobenzene		0.200	U	0.200	0.331
2-Nitrophenol		0.241	U	0.241	0.331
4-Nitrophenol		0.380	U	0.380	0.666
N-Nitrosodimethylamine		0.0199	U	0.0199	0.331
N-Nitrosodi-n-propylamine		0.193	U	0.193	0.331
N-Nitrosodiphenylamine		0.0527	U	0.0527	0.331
Pentachlorophenol		0.264	U	0.264	0.666
Phenanthrene		0.0338	U	0.0338	0.0666
Phenol		0.202	U	0.202	0.331
Pyrene		0.0338	U	0.0338	0.0666
Pyridine		0.198	U	0.198	0.666
1,2,4-Trichlorobenzene		0.180	U	0.180	0.331
2,4,5-Trichlorophenol		0.217	U	0.217	0.331
2,4,6-Trichlorophenol		0.191	U	0.191	0.331

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	70		29 - 120
2-Fluorophenol (Surr)	70		10 - 120
Nitrobenzene-d5 (Surr)	74		27 - 120
Phenol-d5 (Surr)	77		10 - 120
Terphenyl-d14 (Surr)	88		13 - 120
2,4,6-Tribromophenol (Surr)	92		10 - 120

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-403

Lab Sample ID: 490-116078-2
Client Matrix: Soil

% Moisture: 14.2

Date Sampled: 11/10/2016 1420
Date Received: 11/12/2016 0950

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-388250	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-387989	Lab File ID:	111916-023.D
Dilution:	20			Initial Weight/Volume:	35.36 g
Analysis Date:	11/19/2016 2101			Final Weight/Volume:	5 mL
Prep Date:	11/18/2016 1300			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		3.17	U	3.17	6.63
Acenaphthylene		2.87	U	2.87	6.63
Aniline		25.0	U	25.0	66.3
Anthracene		2.87	U	2.87	6.63
Benzidine		20.2	U	20.2	32.9
Benzo(a)anthracene		2.97	U	2.97	6.63
Benzo(a)pyrene		2.67	U	2.67	6.63
Benzo(b)fluoranthene		2.77	U	2.77	6.63
Benzo(g,h,i)perylene		3.26	U	3.26	6.63
Benzoic acid		5.94	U	5.94	32.9
Benzo(k)fluoranthene		2.67	U	2.67	6.63
Benzyl alcohol		19.2	U	19.2	32.9
Bis(2-chloroethoxy)methane		19.8	U	19.8	32.9
Bis(2-chloroethyl)ether		21.1	U	21.1	32.9
bis (2-chloroisopropyl) ether		19.6	U	19.6	32.9
Bis(2-ethylhexyl)phthalate		20.5	U	20.5	32.9
4-Bromophenyl phenyl ether		20.3	U	20.3	32.9
Butyl benzyl phthalate		21.3	U	21.3	32.9
Carbazole		20.5	U	20.5	32.9
4-Chloroaniline		22.5	U	22.5	32.9
4-Chloro-3-methylphenol		16.6	U	16.6	32.9
2-Chloronaphthalene		20.7	U	20.7	32.9
2-Chlorophenol		18.9	U	18.9	32.9
4-Chlorophenyl phenyl ether		19.9	U	19.9	32.9
Chrysene		3.66	U	3.66	6.63
Dibenzo(a,h)anthracene		3.17	U	3.17	6.63
Dibenzofuran		20.8	U	20.8	32.9
1,2-Dichlorobenzene		18.8	U	18.8	32.9
1,3-Dichlorobenzene		18.8	U	18.8	32.9
1,4-Dichlorobenzene		19.4	U	19.4	32.9
3,3'-Dichlorobenzidine		20.2	U	20.2	66.3
2,4-Dichlorophenol		17.3	U	17.3	32.9
Diethyl phthalate		21.0	U	21.0	32.9
2,4-Dimethylphenol		33.1	U	33.1	66.3
Dimethyl phthalate		20.5	U	20.5	32.9
Di-n-butyl phthalate		20.9	U	20.9	32.9
4,6-Dinitro-o-cresol		22.7	U	22.7	32.9
2,4-Dinitrophenol		24.8	U	24.8	32.9
2,4-Dinitrotoluene		20.6	U	20.6	32.9
2,6-Dinitrotoluene		22.1	U	22.1	32.9
Di-n-octyl phthalate		17.6	U	17.6	32.9
1,2-Diphenylhydrazine (as Azobenzene)		23.2	U	23.2	32.9
Fluoranthene		3.36	U	3.36	6.63
Fluorene		2.87	U	2.87	6.63
Hexachlorobenzene		24.7	U	24.7	32.9
Hexachlorobutadiene		16.5	U	16.5	32.9

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-403

Lab Sample ID: 490-116078-2
Client Matrix: Soil

% Moisture: 14.2

Date Sampled: 11/10/2016 1420
Date Received: 11/12/2016 0950

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-388250	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-387989	Lab File ID:	111916-023.D
Dilution:	20			Initial Weight/Volume:	35.36 g
Analysis Date:	11/19/2016 2101			Final Weight/Volume:	5 mL
Prep Date:	11/18/2016 1300			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		14.8	U	14.8	32.9
Hexachloroethane		17.9	U	17.9	32.9
Ideno(1,2,3-cd)pyrene		2.87	U	2.87	6.63
Isophorone		18.6	U	18.6	32.9
1-Methylnaphthalene		2.77	U	2.77	6.63
2-Methylnaphthalene		2.57	U	2.57	6.63
Naphthalene		2.87	U	2.87	6.63
2-Nitroaniline		20.5	U	20.5	32.9
3-Nitroaniline		22.8	U	22.8	66.3
4-Nitroaniline		23.5	U	23.5	66.3
Nitrobenzene		19.9	U	19.9	32.9
2-Nitrophenol		24.0	U	24.0	32.9
4-Nitrophenol		37.8	U	37.8	66.3
N-Nitrosodimethylamine		1.98	U	1.98	32.9
N-Nitrosodi-n-propylamine		19.2	U	19.2	32.9
N-Nitrosodiphenylamine		5.24	U	5.24	32.9
Pentachlorophenol		26.3	U	26.3	66.3
Phenanthrene		3.36	U	3.36	6.63
Phenol		20.1	U	20.1	32.9
Pyrene		3.36	U	3.36	6.63
Pyridine		19.7	U	19.7	66.3
1,2,4-Trichlorobenzene		17.9	U	17.9	32.9
2,4,5-Trichlorophenol		21.6	U	21.6	32.9
2,4,6-Trichlorophenol		19.0	U	19.0	32.9

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	73		29 - 120
2-Fluorophenol (Surr)	71		10 - 120
Nitrobenzene-d5 (Surr)	70		27 - 120
Phenol-d5 (Surr)	62		10 - 120
Terphenyl-d14 (Surr)	82		13 - 120
2,4,6-Tribromophenol (Surr)	83		10 - 120

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-104-16-20

Lab Sample ID: 490-116078-4
Client Matrix: Soil

% Moisture: 4.8

Date Sampled: 11/09/2016 1315
Date Received: 11/12/2016 0950

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-388250	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-387989	Lab File ID:	111916-024.D
Dilution:	1.0			Initial Weight/Volume:	32.28 g
Analysis Date:	11/19/2016 2119			Final Weight/Volume:	1 mL
Prep Date:	11/18/2016 1300			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0312	U	0.0312	0.0654
Acenaphthylene		0.0283	U	0.0283	0.0654
Aniline		0.247	U	0.247	0.654
Anthracene		0.0844		0.0283	0.0654
Benzidine		0.199	U	0.199	0.325
Benzo(a)anthracene		0.0293	U	0.0293	0.0654
Benzo(a)pyrene		0.0263	U	0.0263	0.0654
Benzo(b)fluoranthene		0.0273	U	0.0273	0.0654
Benzo(g,h,i)perylene		0.0322	U	0.0322	0.0654
Benzoic acid		0.0586	U	0.0586	0.325
Benzo(k)fluoranthene		0.0263	U	0.0263	0.0654
Benzyl alcohol		0.189	U	0.189	0.325
Bis(2-chloroethoxy)methane		0.195	U	0.195	0.325
Bis(2-chloroethyl)ether		0.208	U	0.208	0.325
bis (2-chloroisopropyl) ether		0.193	U	0.193	0.325
Bis(2-ethylhexyl)phthalate		0.202	U	0.202	0.325
4-Bromophenyl phenyl ether		0.200	U	0.200	0.325
Butyl benzyl phthalate		0.210	U	0.210	0.325
Carbazole		0.202	U	0.202	0.325
4-Chloroaniline		0.222	U	0.222	0.325
4-Chloro-3-methylphenol		0.164	U	0.164	0.325
2-Chloronaphthalene		0.204	U	0.204	0.325
2-Chlorophenol		0.186	U	0.186	0.325
4-Chlorophenyl phenyl ether		0.196	U	0.196	0.325
Chrysene		0.0382	J	0.0361	0.0654
Dibenzo(a,h)anthracene		0.0312	U	0.0312	0.0654
Dibenzofuran		0.205	U	0.205	0.325
1,2-Dichlorobenzene		0.185	U	0.185	0.325
1,3-Dichlorobenzene		0.185	U	0.185	0.325
1,4-Dichlorobenzene		0.191	U	0.191	0.325
3,3'-Dichlorobenzidine		0.199	U	0.199	0.654
2,4-Dichlorophenol		0.171	U	0.171	0.325
Diethyl phthalate		0.207	U	0.207	0.325
2,4-Dimethylphenol		0.327	U	0.327	0.654
Dimethyl phthalate		0.202	U	0.202	0.325
Di-n-butyl phthalate		0.206	U	0.206	0.325
4,6-Dinitro-o-cresol		0.223	U	0.223	0.325
2,4-Dinitrophenol		0.245	U	0.245	0.325
2,4-Dinitrotoluene		0.203	U	0.203	0.325
2,6-Dinitrotoluene		0.218	U	0.218	0.325
Di-n-octyl phthalate		0.174	U	0.174	0.325
1,2-Diphenylhydrazine (as Azobenzene)		0.228	U	0.228	0.325
Fluoranthene		0.0332	U	0.0332	0.0654
Fluorene		0.0283	U	0.0283	0.0654
Hexachlorobenzene		0.244	U	0.244	0.325
Hexachlorobutadiene		0.163	U	0.163	0.325

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-104-16-20

Lab Sample ID: 490-116078-4
Client Matrix: Soil

% Moisture: 4.8

Date Sampled: 11/09/2016 1315
Date Received: 11/12/2016 0950

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-388250	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-387989	Lab File ID:	111916-024.D
Dilution:	1.0			Initial Weight/Volume:	32.28 g
Analysis Date:	11/19/2016 2119			Final Weight/Volume:	1 mL
Prep Date:	11/18/2016 1300			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.146	U	0.146	0.325
Hexachloroethane		0.177	U	0.177	0.325
Ideno(1,2,3-cd)pyrene		0.0283	U	0.0283	0.0654
Isophorone		0.183	U	0.183	0.325
1-Methylnaphthalene		0.0273	U	0.0273	0.0654
2-Methylnaphthalene		0.0254	U	0.0254	0.0654
Naphthalene		0.0283	U	0.0283	0.0654
2-Nitroaniline		0.202	U	0.202	0.325
3-Nitroaniline		0.224	U	0.224	0.654
4-Nitroaniline		0.232	U	0.232	0.654
Nitrobenzene		0.196	U	0.196	0.325
2-Nitrophenol		0.237	U	0.237	0.325
4-Nitrophenol		0.373	U	0.373	0.654
N-Nitrosodimethylamine		0.0195	U	0.0195	0.325
N-Nitrosodi-n-propylamine		0.189	U	0.189	0.325
N-Nitrosodiphenylamine		0.0517	U	0.0517	0.325
Pentachlorophenol		0.260	U	0.260	0.654
Phenanthrene		0.307		0.0332	0.0654
Phenol		0.198	U	0.198	0.325
Pyrene		0.0332	U	0.0332	0.0654
Pyridine		0.194	U	0.194	0.654
1,2,4-Trichlorobenzene		0.177	U	0.177	0.325
2,4,5-Trichlorophenol		0.213	U	0.213	0.325
2,4,6-Trichlorophenol		0.187	U	0.187	0.325

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	81		29 - 120
2-Fluorophenol (Surr)	81		10 - 120
Nitrobenzene-d5 (Surr)	73		27 - 120
Phenol-d5 (Surr)	71		10 - 120
Terphenyl-d14 (Surr)	90		13 - 120
2,4,6-Tribromophenol (Surr)	97		10 - 120

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-100-16-20

Lab Sample ID: 490-116078-5
Client Matrix: Soil

% Moisture: 15.3

Date Sampled: 11/09/2016 1010
Date Received: 11/12/2016 0950

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-388250	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-387989	Lab File ID:	111916-025.D
Dilution:	1.0			Initial Weight/Volume:	35.46 g
Analysis Date:	11/19/2016 2138			Final Weight/Volume:	1 mL
Prep Date:	11/18/2016 1300			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0320	U	0.0320	0.0669
Acenaphthylene		0.0290	U	0.0290	0.0669
Aniline		0.253	U	0.253	0.669
Anthracene		0.0290	U	0.0290	0.0669
Benzidine		0.204	U	0.204	0.333
Benzo(a)anthracene		0.0300	U	0.0300	0.0669
Benzo(a)pyrene		0.0270	U	0.0270	0.0669
Benzo(b)fluoranthene		0.0280	U	0.0280	0.0669
Benzo(g,h,i)perylene		0.0330	U	0.0330	0.0669
Benzoic acid		0.0599	U	0.0599	0.333
Benzo(k)fluoranthene		0.0270	U	0.0270	0.0669
Benzyl alcohol		0.194	U	0.194	0.333
Bis(2-chloroethoxy)methane		0.200	U	0.200	0.333
Bis(2-chloroethyl)ether		0.213	U	0.213	0.333
bis (2-chloroisopropyl) ether		0.198	U	0.198	0.333
Bis(2-ethylhexyl)phthalate		0.207	U	0.207	0.333
4-Bromophenyl phenyl ether		0.205	U	0.205	0.333
Butyl benzyl phthalate		0.215	U	0.215	0.333
Carbazole		0.207	U	0.207	0.333
4-Chloroaniline		0.227	U	0.227	0.333
4-Chloro-3-methylphenol		0.168	U	0.168	0.333
2-Chloronaphthalene		0.209	U	0.209	0.333
2-Chlorophenol		0.191	U	0.191	0.333
4-Chlorophenyl phenyl ether		0.201	U	0.201	0.333
Chrysene		0.0370	U	0.0370	0.0669
Dibenzo(a,h)anthracene		0.0320	U	0.0320	0.0669
Dibenzofuran		0.210	U	0.210	0.333
1,2-Dichlorobenzene		0.190	U	0.190	0.333
1,3-Dichlorobenzene		0.190	U	0.190	0.333
1,4-Dichlorobenzene		0.196	U	0.196	0.333
3,3'-Dichlorobenzidine		0.204	U	0.204	0.669
2,4-Dichlorophenol		0.175	U	0.175	0.333
Diethyl phthalate		0.212	U	0.212	0.333
2,4-Dimethylphenol		0.335	U	0.335	0.669
Dimethyl phthalate		0.207	U	0.207	0.333
Di-n-butyl phthalate		0.211	U	0.211	0.333
4,6-Dinitro-o-cresol		0.229	U	0.229	0.333
2,4-Dinitrophenol		0.251	U	0.251	0.333
2,4-Dinitrotoluene		0.208	U	0.208	0.333
2,6-Dinitrotoluene		0.223	U	0.223	0.333
Di-n-octyl phthalate		0.178	U	0.178	0.333
1,2-Diphenylhydrazine (as Azobenzene)		0.234	U	0.234	0.333
Fluoranthene		0.0340	U	0.0340	0.0669
Fluorene		0.0290	U	0.0290	0.0669
Hexachlorobenzene		0.250	U	0.250	0.333
Hexachlorobutadiene		0.167	U	0.167	0.333

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-100-16-20

Lab Sample ID: 490-116078-5
Client Matrix: Soil
% Moisture: 15.3

Date Sampled: 11/09/2016 1010
Date Received: 11/12/2016 0950

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-388250	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-387989	Lab File ID:	111916-025.D
Dilution:	1.0			Initial Weight/Volume:	35.46 g
Analysis Date:	11/19/2016 2138			Final Weight/Volume:	1 mL
Prep Date:	11/18/2016 1300			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.150	U	0.150	0.333
Hexachloroethane		0.181	U	0.181	0.333
Ideno(1,2,3-cd)pyrene		0.0290	U	0.0290	0.0669
Isophorone		0.188	U	0.188	0.333
1-Methylnaphthalene		0.0280	U	0.0280	0.0669
2-Methylnaphthalene		0.0260	U	0.0260	0.0669
Naphthalene		0.0290	U	0.0290	0.0669
2-Nitroaniline		0.207	U	0.207	0.333
3-Nitroaniline		0.230	U	0.230	0.669
4-Nitroaniline		0.238	U	0.238	0.669
Nitrobenzene		0.201	U	0.201	0.333
2-Nitrophenol		0.243	U	0.243	0.333
4-Nitrophenol		0.382	U	0.382	0.669
N-Nitrosodimethylamine		0.0200	U	0.0200	0.333
N-Nitrosodi-n-propylamine		0.194	U	0.194	0.333
N-Nitrosodiphenylamine		0.0529	U	0.0529	0.333
Pentachlorophenol		0.266	U	0.266	0.669
Phenanthrene		0.285		0.0340	0.0669
Phenol		0.203	U	0.203	0.333
Pyrene		0.0340	U	0.0340	0.0669
Pyridine		0.199	U	0.199	0.669
1,2,4-Trichlorobenzene		0.181	U	0.181	0.333
2,4,5-Trichlorophenol		0.218	U	0.218	0.333
2,4,6-Trichlorophenol		0.192	U	0.192	0.333

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	70		29 - 120
2-Fluorophenol (Surr)	59		10 - 120
Nitrobenzene-d5 (Surr)	73		27 - 120
Phenol-d5 (Surr)	70		10 - 120
Terphenyl-d14 (Surr)	83		13 - 120
2,4,6-Tribromophenol (Surr)	98		10 - 120

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-101-12-15

Lab Sample ID: 490-116078-6
Client Matrix: Soil

% Moisture: 8.6

Date Sampled: 11/09/2016 1115
Date Received: 11/12/2016 0950

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-388250	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-387989	Lab File ID:	111916-026.D
Dilution:	1.0			Initial Weight/Volume:	33.75 g
Analysis Date:	11/19/2016 2156			Final Weight/Volume:	1 mL
Prep Date:	11/18/2016 1300			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0311	U	0.0311	0.0652
Acenaphthylene		0.0282	U	0.0282	0.0652
Aniline		0.246	U	0.246	0.652
Anthracene		0.0282	U	0.0282	0.0652
Benzidine		0.198	U	0.198	0.324
Benzo(a)anthracene		0.0292	U	0.0292	0.0652
Benzo(a)pyrene		0.0263	U	0.0263	0.0652
Benzo(b)fluoranthene		0.0272	U	0.0272	0.0652
Benzo(g,h,i)perylene		0.0321	U	0.0321	0.0652
Benzoic acid		0.0584	U	0.0584	0.324
Benzo(k)fluoranthene		0.0263	U	0.0263	0.0652
Benzyl alcohol		0.189	U	0.189	0.324
Bis(2-chloroethoxy)methane		0.195	U	0.195	0.324
Bis(2-chloroethyl)ether		0.207	U	0.207	0.324
bis (2-chloroisopropyl) ether		0.193	U	0.193	0.324
Bis(2-ethylhexyl)phthalate		0.201	U	0.201	0.324
4-Bromophenyl phenyl ether		0.199	U	0.199	0.324
Butyl benzyl phthalate		0.209	U	0.209	0.324
Carbazole		0.201	U	0.201	0.324
4-Chloroaniline		0.221	U	0.221	0.324
4-Chloro-3-methylphenol		0.163	U	0.163	0.324
2-Chloronaphthalene		0.203	U	0.203	0.324
2-Chlorophenol		0.186	U	0.186	0.324
4-Chlorophenyl phenyl ether		0.196	U	0.196	0.324
Chrysene		0.0379	J	0.0360	0.0652
Dibenzo(a,h)anthracene		0.0311	U	0.0311	0.0652
Dibenzofuran		0.204	U	0.204	0.324
1,2-Dichlorobenzene		0.185	U	0.185	0.324
1,3-Dichlorobenzene		0.185	U	0.185	0.324
1,4-Dichlorobenzene		0.191	U	0.191	0.324
3,3'-Dichlorobenzidine		0.198	U	0.198	0.652
2,4-Dichlorophenol		0.170	U	0.170	0.324
Diethyl phthalate		0.206	U	0.206	0.324
2,4-Dimethylphenol		0.326	U	0.326	0.652
Dimethyl phthalate		0.201	U	0.201	0.324
Di-n-butyl phthalate		0.205	U	0.205	0.324
4,6-Dinitro-o-cresol		0.223	U	0.223	0.324
2,4-Dinitrophenol		0.244	U	0.244	0.324
2,4-Dinitrotoluene		0.202	U	0.202	0.324
2,6-Dinitrotoluene		0.217	U	0.217	0.324
Di-n-octyl phthalate		0.173	U	0.173	0.324
1,2-Diphenylhydrazine (as Azobenzene)		0.228	U	0.228	0.324
Fluoranthene		0.0331	U	0.0331	0.0652
Fluorene		0.125		0.0282	0.0652
Hexachlorobenzene		0.243	U	0.243	0.324
Hexachlorobutadiene		0.162	U	0.162	0.324

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-101-12-15

Lab Sample ID: 490-116078-6
Client Matrix: Soil

% Moisture: 8.6

Date Sampled: 11/09/2016 1115
Date Received: 11/12/2016 0950

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-388250	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-387989	Lab File ID:	111916-026.D
Dilution:	1.0			Initial Weight/Volume:	33.75 g
Analysis Date:	11/19/2016 2156			Final Weight/Volume:	1 mL
Prep Date:	11/18/2016 1300			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.146	U	0.146	0.324
Hexachloroethane		0.176	U	0.176	0.324
Ideno(1,2,3-cd)pyrene		0.0282	U	0.0282	0.0652
Isophorone		0.183	U	0.183	0.324
1-Methylnaphthalene		0.0272	U	0.0272	0.0652
2-Methylnaphthalene		0.0253	U	0.0253	0.0652
Naphthalene		0.0282	U	0.0282	0.0652
2-Nitroaniline		0.201	U	0.201	0.324
3-Nitroaniline		0.224	U	0.224	0.652
4-Nitroaniline		0.232	U	0.232	0.652
Nitrobenzene		0.196	U	0.196	0.324
2-Nitrophenol		0.236	U	0.236	0.324
4-Nitrophenol		0.372	U	0.372	0.652
N-Nitrosodimethylamine		0.0195	U	0.0195	0.324
N-Nitrosodi-n-propylamine		0.189	U	0.189	0.324
N-Nitrosodiphenylamine		0.0516	U	0.0516	0.324
Pentachlorophenol		0.259	U	0.259	0.652
Phenanthrene		0.0331	U	0.0331	0.0652
Phenol		0.198	U	0.198	0.324
Pyrene		0.0331	U	0.0331	0.0652
Pyridine		0.194	U	0.194	0.652
1,2,4-Trichlorobenzene		0.176	U	0.176	0.324
2,4,5-Trichlorophenol		0.212	U	0.212	0.324
2,4,6-Trichlorophenol		0.187	U	0.187	0.324

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	73		29 - 120
2-Fluorophenol (Surr)	67		10 - 120
Nitrobenzene-d5 (Surr)	82		27 - 120
Phenol-d5 (Surr)	72		10 - 120
Terphenyl-d14 (Surr)	82		13 - 120
2,4,6-Tribromophenol (Surr)	71		10 - 120

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-102-16-19

Lab Sample ID: 490-116078-7
Client Matrix: Soil

% Moisture: 10.1

Date Sampled: 11/09/2016 1145
Date Received: 11/12/2016 0950

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-388250	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-387989	Lab File ID:	111916-027.D
Dilution:	1.0			Initial Weight/Volume:	33.41 g
Analysis Date:	11/19/2016 2215			Final Weight/Volume:	1 mL
Prep Date:	11/18/2016 1300			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0319	U	0.0319	0.0669
Acenaphthylene		0.0290	U	0.0290	0.0669
Aniline		0.253	U	0.253	0.669
Anthracene		0.0290	U	0.0290	0.0669
Benzidine		0.204	U	0.204	0.332
Benzo(a)anthracene		0.0951		0.0299	0.0669
Benzo(a)pyrene		0.108		0.0270	0.0669
Benzo(b)fluoranthene		0.101		0.0280	0.0669
Benzo(g,h,i)perylene		0.134		0.0329	0.0669
Benzoic acid		0.0599	U	0.0599	0.332
Benzo(k)fluoranthene		0.0292	J	0.0270	0.0669
Benzyl alcohol		0.194	U	0.194	0.332
Bis(2-chloroethoxy)methane		0.200	U	0.200	0.332
Bis(2-chloroethyl)ether		1.39		0.213	0.332
bis (2-chloroisopropyl) ether		0.198	U	0.198	0.332
Bis(2-ethylhexyl)phthalate		0.207	U	0.207	0.332
4-Bromophenyl phenyl ether		0.205	U	0.205	0.332
Butyl benzyl phthalate		0.215	U	0.215	0.332
Carbazole		0.207	U	0.207	0.332
4-Chloroaniline		0.227	U	0.227	0.332
4-Chloro-3-methylphenol		0.168	U	0.168	0.332
2-Chloronaphthalene		0.209	U	0.209	0.332
2-Chlorophenol		0.191	U	0.191	0.332
4-Chlorophenyl phenyl ether		0.201	U	0.201	0.332
Chrysene		0.148		0.0369	0.0669
Dibenzo(a,h)anthracene		0.0610	J	0.0319	0.0669
Dibenzofuran		0.210	U	0.210	0.332
1,2-Dichlorobenzene		0.190	U	0.190	0.332
1,3-Dichlorobenzene		0.190	U	0.190	0.332
1,4-Dichlorobenzene		0.196	U	0.196	0.332
3,3'-Dichlorobenzidine		0.204	U	0.204	0.669
2,4-Dichlorophenol		0.175	U	0.175	0.332
Diethyl phthalate		0.212	U	0.212	0.332
2,4-Dimethylphenol		0.334	U	0.334	0.669
Dimethyl phthalate		0.207	U	0.207	0.332
Di-n-butyl phthalate		0.211	U	0.211	0.332
4,6-Dinitro-o-cresol		0.229	U	0.229	0.332
2,4-Dinitrophenol		0.251	U	0.251	0.332
2,4-Dinitrotoluene		0.208	U	0.208	0.332
2,6-Dinitrotoluene		0.223	U	0.223	0.332
Di-n-octyl phthalate		0.178	U	0.178	0.332
1,2-Diphenylhydrazine (as Azobenzene)		0.234	U	0.234	0.332
Fluoranthene		0.0978		0.0339	0.0669
Fluorene		0.0290	U	0.0290	0.0669
Hexachlorobenzene		0.250	U	0.250	0.332
Hexachlorobutadiene		0.167	U	0.167	0.332

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-102-16-19

Lab Sample ID: 490-116078-7
Client Matrix: Soil
% Moisture: 10.1

Date Sampled: 11/09/2016 1145
Date Received: 11/12/2016 0950

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-388250	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-387989	Lab File ID:	111916-027.D
Dilution:	1.0			Initial Weight/Volume:	33.41 g
Analysis Date:	11/19/2016 2215			Final Weight/Volume:	1 mL
Prep Date:	11/18/2016 1300			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.150	U	0.150	0.332
Hexachloroethane		0.181	U	0.181	0.332
Ideno(1,2,3-cd)pyrene		0.0589	J	0.0290	0.0669
Isophorone		0.188	U	0.188	0.332
1-Methylnaphthalene		0.0280	U	0.0280	0.0669
2-Methylnaphthalene		0.0260	U	0.0260	0.0669
Naphthalene		0.0290	U	0.0290	0.0669
2-Nitroaniline		0.207	U	0.207	0.332
3-Nitroaniline		0.230	U	0.230	0.669
4-Nitroaniline		0.238	U	0.238	0.669
Nitrobenzene		0.201	U	0.201	0.332
2-Nitrophenol		0.243	U	0.243	0.332
4-Nitrophenol		0.381	U	0.381	0.669
N-Nitrosodimethylamine		0.0200	U	0.0200	0.332
N-Nitrosodi-n-propylamine		0.194	U	0.194	0.332
N-Nitrosodiphenylamine		0.0529	U	0.0529	0.332
Pentachlorophenol		0.266	U	0.266	0.669
Phenanthrene		0.0339	U	0.0339	0.0669
Phenol		0.203	U	0.203	0.332
Pyrene		0.216		0.0339	0.0669
Pyridine		0.199	U	0.199	0.669
1,2,4-Trichlorobenzene		0.181	U	0.181	0.332
2,4,5-Trichlorophenol		0.218	U	0.218	0.332
2,4,6-Trichlorophenol		0.192	U	0.192	0.332

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	80		29 - 120
2-Fluorophenol (Surr)	61		10 - 120
Nitrobenzene-d5 (Surr)	72		27 - 120
Phenol-d5 (Surr)	66		10 - 120
Terphenyl-d14 (Surr)	89		13 - 120
2,4,6-Tribromophenol (Surr)	89		10 - 120

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-401

Lab Sample ID: 490-116078-8
Client Matrix: Soil

% Moisture: 13.4

Date Sampled: 11/10/2016 1300
Date Received: 11/12/2016 0950

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-388250	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-387989	Lab File ID:	111916-028.D
Dilution:	5.0			Initial Weight/Volume:	34.66 g
Analysis Date:	11/19/2016 2234			Final Weight/Volume:	1 mL
Prep Date:	11/18/2016 1300			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.160	U	0.160	0.335
Acenaphthylene		0.145	U	0.145	0.335
Aniline		1.26	U	1.26	3.35
Anthracene		0.145	U	0.145	0.335
Benzidine		1.02	U	1.02	1.66
Benzo(a)anthracene		0.150	U	0.150	0.335
Benzo(a)pyrene		0.135	U	0.135	0.335
Benzo(b)fluoranthene		0.140	U	0.140	0.335
Benzo(g,h,i)perylene		0.165	U	0.165	0.335
Benzoic acid		0.300	U	0.300	1.66
Benzo(k)fluoranthene		0.135	U	0.135	0.335
Benzyl alcohol		0.970	U	0.970	1.66
Bis(2-chloroethoxy)methane		1.00	U	1.00	1.66
Bis(2-chloroethyl)ether		1.06	U	1.06	1.66
bis (2-chloroisopropyl) ether		0.990	U	0.990	1.66
Bis(2-ethylhexyl)phthalate		1.03	U	1.03	1.66
4-Bromophenyl phenyl ether		1.02	U	1.02	1.66
Butyl benzyl phthalate		1.07	U	1.07	1.66
Carbazole		1.03	U	1.03	1.66
4-Chloroaniline		1.13	U	1.13	1.66
4-Chloro-3-methylphenol		0.840	U	0.840	1.66
2-Chloronaphthalene		1.04	U	1.04	1.66
2-Chlorophenol		0.955	U	0.955	1.66
4-Chlorophenyl phenyl ether		1.00	U	1.00	1.66
Chrysene		0.185	U	0.185	0.335
Dibenzo(a,h)anthracene		0.160	U	0.160	0.335
Dibenzofuran		1.05	U	1.05	1.66
1,2-Dichlorobenzene		0.950	U	0.950	1.66
1,3-Dichlorobenzene		0.950	U	0.950	1.66
1,4-Dichlorobenzene		0.980	U	0.980	1.66
3,3'-Dichlorobenzidine		1.02	U	1.02	3.35
2,4-Dichlorophenol		0.875	U	0.875	1.66
Diethyl phthalate		1.06	U	1.06	1.66
2,4-Dimethylphenol		1.67	U	1.67	3.35
Dimethyl phthalate		1.03	U	1.03	1.66
Di-n-butyl phthalate		1.05	U	1.05	1.66
4,6-Dinitro-o-cresol		1.14	U	1.14	1.66
2,4-Dinitrophenol		1.25	U	1.25	1.66
2,4-Dinitrotoluene		1.04	U	1.04	1.66
2,6-Dinitrotoluene		1.11	U	1.11	1.66
Di-n-octyl phthalate		0.890	U	0.890	1.66
1,2-Diphenylhydrazine (as Azobenzene)		1.17	U	1.17	1.66
Fluoranthene		0.170	U	0.170	0.335
Fluorene		0.145	U	0.145	0.335
Hexachlorobenzene		1.25	U	1.25	1.66
Hexachlorobutadiene		0.835	U	0.835	1.66

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-401

Lab Sample ID: 490-116078-8
Client Matrix: Soil

% Moisture: 13.4

Date Sampled: 11/10/2016 1300
Date Received: 11/12/2016 0950

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-388250	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-387989	Lab File ID:	111916-028.D
Dilution:	5.0			Initial Weight/Volume:	34.66 g
Analysis Date:	11/19/2016 2234			Final Weight/Volume:	1 mL
Prep Date:	11/18/2016 1300			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.750	U	0.750	1.66
Hexachloroethane		0.905	U	0.905	1.66
Ideno(1,2,3-cd)pyrene		0.145	U	0.145	0.335
Isophorone		0.940	U	0.940	1.66
1-Methylnaphthalene		0.140	U	0.140	0.335
2-Methylnaphthalene		0.130	U	0.130	0.335
Naphthalene		0.145	U	0.145	0.335
2-Nitroaniline		1.03	U	1.03	1.66
3-Nitroaniline		1.15	U	1.15	3.35
4-Nitroaniline		1.19	U	1.19	3.35
Nitrobenzene		1.00	U	1.00	1.66
2-Nitrophenol		1.21	U	1.21	1.66
4-Nitrophenol		1.91	U	1.91	3.35
N-Nitrosodimethylamine		0.100	U	0.100	1.66
N-Nitrosodi-n-propylamine		0.970	U	0.970	1.66
N-Nitrosodiphenylamine		0.265	U	0.265	1.66
Pentachlorophenol		1.33	U	1.33	3.35
Phenanthrene		0.170	U	0.170	0.335
Phenol		1.01	U	1.01	1.66
Pyrene		0.170	U	0.170	0.335
Pyridine		0.995	U	0.995	3.35
1,2,4-Trichlorobenzene		0.905	U	0.905	1.66
2,4,5-Trichlorophenol		1.09	U	1.09	1.66
2,4,6-Trichlorophenol		0.960	U	0.960	1.66

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	73		29 - 120
2-Fluorophenol (Surr)	64		10 - 120
Nitrobenzene-d5 (Surr)	57		27 - 120
Phenol-d5 (Surr)	65		10 - 120
Terphenyl-d14 (Surr)	82		13 - 120
2,4,6-Tribromophenol (Surr)	82		10 - 120

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-103-12-14

Lab Sample ID: 490-116078-9
Client Matrix: Soil

% Moisture: 9.6

Date Sampled: 11/09/2016 1200
Date Received: 11/12/2016 0950

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-388250	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-387989	Lab File ID:	111916-029.D
Dilution:	1.0			Initial Weight/Volume:	33.52 g
Analysis Date:	11/19/2016 2252			Final Weight/Volume:	1 mL
Prep Date:	11/18/2016 1300			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0317	U	0.0317	0.0663
Acenaphthylene		0.0287	U	0.0287	0.0663
Aniline		0.250	U	0.250	0.663
Anthracene		0.0287	U	0.0287	0.0663
Benzidine		0.202	U	0.202	0.330
Benzo(a)anthracene		0.0297	U	0.0297	0.0663
Benzo(a)pyrene		0.0267	U	0.0267	0.0663
Benzo(b)fluoranthene		0.0277	U	0.0277	0.0663
Benzo(g,h,i)perylene		0.0327	U	0.0327	0.0663
Benzoic acid		0.0594	U	0.0594	0.330
Benzo(k)fluoranthene		0.0267	U	0.0267	0.0663
Benzyl alcohol		0.192	U	0.192	0.330
Bis(2-chloroethoxy)methane		0.198	U	0.198	0.330
Bis(2-chloroethyl)ether		0.211	U	0.211	0.330
bis (2-chloroisopropyl) ether		0.196	U	0.196	0.330
Bis(2-ethylhexyl)phthalate		0.205	U	0.205	0.330
4-Bromophenyl phenyl ether		0.203	U	0.203	0.330
Butyl benzyl phthalate		0.213	U	0.213	0.330
Carbazole		0.205	U	0.205	0.330
4-Chloroaniline		0.225	U	0.225	0.330
4-Chloro-3-methylphenol		0.166	U	0.166	0.330
2-Chloronaphthalene		0.207	U	0.207	0.330
2-Chlorophenol		0.189	U	0.189	0.330
4-Chlorophenyl phenyl ether		0.199	U	0.199	0.330
Chrysene		0.0865		0.0366	0.0663
Dibenzo(a,h)anthracene		0.0317	U	0.0317	0.0663
Dibenzofuran		0.208	U	0.208	0.330
1,2-Dichlorobenzene		0.188	U	0.188	0.330
1,3-Dichlorobenzene		0.188	U	0.188	0.330
1,4-Dichlorobenzene		0.194	U	0.194	0.330
3,3'-Dichlorobenzidine		0.202	U	0.202	0.663
2,4-Dichlorophenol		0.173	U	0.173	0.330
Diethyl phthalate		0.210	U	0.210	0.330
2,4-Dimethylphenol		0.332	U	0.332	0.663
Dimethyl phthalate		0.205	U	0.205	0.330
Di-n-butyl phthalate		0.209	U	0.209	0.330
4,6-Dinitro-o-cresol		0.227	U	0.227	0.330
2,4-Dinitrophenol		0.248	U	0.248	0.330
2,4-Dinitrotoluene		0.206	U	0.206	0.330
2,6-Dinitrotoluene		0.221	U	0.221	0.330
Di-n-octyl phthalate		0.176	U	0.176	0.330
1,2-Diphenylhydrazine (as Azobenzene)		0.232	U	0.232	0.330
Fluoranthene		0.0336	U	0.0336	0.0663
Fluorene		0.0287	U	0.0287	0.0663
Hexachlorobenzene		0.247	U	0.247	0.330
Hexachlorobutadiene		0.165	U	0.165	0.330

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-103-12-14

Lab Sample ID: 490-116078-9
Client Matrix: Soil

% Moisture: 9.6

Date Sampled: 11/09/2016 1200
Date Received: 11/12/2016 0950

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-388250	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-387989	Lab File ID:	111916-029.D
Dilution:	1.0			Initial Weight/Volume:	33.52 g
Analysis Date:	11/19/2016 2252			Final Weight/Volume:	1 mL
Prep Date:	11/18/2016 1300			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.148	U	0.148	0.330
Hexachloroethane		0.179	U	0.179	0.330
Ideno(1,2,3-cd)pyrene		0.0287	U	0.0287	0.0663
Isophorone		0.186	U	0.186	0.330
1-Methylnaphthalene		0.0277	U	0.0277	0.0663
2-Methylnaphthalene		0.0257	U	0.0257	0.0663
Naphthalene		0.0287	U	0.0287	0.0663
2-Nitroaniline		0.205	U	0.205	0.330
3-Nitroaniline		0.228	U	0.228	0.663
4-Nitroaniline		0.236	U	0.236	0.663
Nitrobenzene		0.199	U	0.199	0.330
2-Nitrophenol		0.240	U	0.240	0.330
4-Nitrophenol		0.378	U	0.378	0.663
N-Nitrosodimethylamine		0.0198	U	0.0198	0.330
N-Nitrosodi-n-propylamine		0.192	U	0.192	0.330
N-Nitrosodiphenylamine		0.0524	U	0.0524	0.330
Pentachlorophenol		0.263	U	0.263	0.663
Phenanthrene		0.294		0.0336	0.0663
Phenol		0.201	U	0.201	0.330
Pyrene		0.0336	U	0.0336	0.0663
Pyridine		0.197	U	0.197	0.663
1,2,4-Trichlorobenzene		0.179	U	0.179	0.330
2,4,5-Trichlorophenol		0.216	U	0.216	0.330
2,4,6-Trichlorophenol		0.190	U	0.190	0.330

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	83		29 - 120
2-Fluorophenol (Surr)	60		10 - 120
Nitrobenzene-d5 (Surr)	102		27 - 120
Phenol-d5 (Surr)	81		10 - 120
Terphenyl-d14 (Surr)	100		13 - 120
2,4,6-Tribromophenol (Surr)	92		10 - 120

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-400

Lab Sample ID: 490-116078-10
Client Matrix: Soil

% Moisture: 23.9

Date Sampled: 11/10/2016 1045
Date Received: 11/12/2016 0950

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-388250	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-387989	Lab File ID:	111916-030.D
Dilution:	10			Initial Weight/Volume:	39.43 g
Analysis Date:	11/19/2016 2311			Final Weight/Volume:	1 mL
Prep Date:	11/18/2016 1300			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.320	U	0.320	0.670
Acenaphthylene		0.290	U	0.290	0.670
Aniline		2.53	U	2.53	6.70
Anthracene		0.290	U	0.290	0.670
Benzidine		2.04	U	2.04	3.33
Benzo(a)anthracene		0.300	U	0.300	0.670
Benzo(a)pyrene		0.628	J	0.270	0.670
Benzo(b)fluoranthene		0.402	J	0.280	0.670
Benzo(g,h,i)perylene		2.45		0.330	0.670
Benzoic acid		0.600	U	0.600	3.33
Benzo(k)fluoranthene		0.270	U	0.270	0.670
Benzyl alcohol		1.94	U	1.94	3.33
Bis(2-chloroethoxy)methane		2.00	U	2.00	3.33
Bis(2-chloroethyl)ether		2.13	U	2.13	3.33
bis (2-chloroisopropyl) ether		1.98	U	1.98	3.33
Bis(2-ethylhexyl)phthalate		2.07	U	2.07	3.33
4-Bromophenyl phenyl ether		2.05	U	2.05	3.33
Butyl benzyl phthalate		2.15	U	2.15	3.33
Carbazole		2.07	U	2.07	3.33
4-Chloroaniline		2.27	U	2.27	3.33
4-Chloro-3-methylphenol		1.68	U	1.68	3.33
2-Chloronaphthalene		2.09	U	2.09	3.33
2-Chlorophenol		1.91	U	1.91	3.33
4-Chlorophenyl phenyl ether		2.01	U	2.01	3.33
Chrysene		0.889		0.370	0.670
Dibenzo(a,h)anthracene		0.320	U	0.320	0.670
Dibenzofuran		2.10	U	2.10	3.33
1,2-Dichlorobenzene		1.90	U	1.90	3.33
1,3-Dichlorobenzene		1.90	U	1.90	3.33
1,4-Dichlorobenzene		1.96	U	1.96	3.33
3,3'-Dichlorobenzidine		2.04	U	2.04	6.70
2,4-Dichlorophenol		1.75	U	1.75	3.33
Diethyl phthalate		2.12	U	2.12	3.33
2,4-Dimethylphenol		3.35	U	3.35	6.70
Dimethyl phthalate		2.07	U	2.07	3.33
Di-n-butyl phthalate		2.11	U	2.11	3.33
4,6-Dinitro-o-cresol		2.29	U	2.29	3.33
2,4-Dinitrophenol		2.51	U	2.51	3.33
2,4-Dinitrotoluene		2.08	U	2.08	3.33
2,6-Dinitrotoluene		2.23	U	2.23	3.33
Di-n-octyl phthalate		1.78	U	1.78	3.33
1,2-Diphenylhydrazine (as Azobenzene)		2.34	U	2.34	3.33
Fluoranthene		0.340	U	0.340	0.670
Fluorene		0.290	U	0.290	0.670
Hexachlorobenzene		2.50	U	2.50	3.33
Hexachlorobutadiene		1.67	U	1.67	3.33

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-400

Lab Sample ID: 490-116078-10
Client Matrix: Soil

% Moisture: 23.9

Date Sampled: 11/10/2016 1045
Date Received: 11/12/2016 0950

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-388250	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-387989	Lab File ID:	111916-030.D
Dilution:	10			Initial Weight/Volume:	39.43 g
Analysis Date:	11/19/2016 2311			Final Weight/Volume:	1 mL
Prep Date:	11/18/2016 1300			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		1.50	U	1.50	3.33
Hexachloroethane		1.81	U	1.81	3.33
Ideno(1,2,3-cd)pyrene		0.517	J	0.290	0.670
Isophorone		1.88	U	1.88	3.33
1-Methylnaphthalene		0.280	U	0.280	0.670
2-Methylnaphthalene		0.260	U	0.260	0.670
Naphthalene		0.290	U	0.290	0.670
2-Nitroaniline		2.07	U	2.07	3.33
3-Nitroaniline		2.30	U	2.30	6.70
4-Nitroaniline		2.38	U	2.38	6.70
Nitrobenzene		2.01	U	2.01	3.33
2-Nitrophenol		2.43	U	2.43	3.33
4-Nitrophenol		3.82	U	3.82	6.70
N-Nitrosodimethylamine		0.200	U	0.200	3.33
N-Nitrosodi-n-propylamine		1.94	U	1.94	3.33
N-Nitrosodiphenylamine		0.530	U	0.530	3.33
Pentachlorophenol		2.66	U	2.66	6.70
Phenanthrene		0.340	U	0.340	0.670
Phenol		2.03	U	2.03	3.33
Pyrene		0.801		0.340	0.670
Pyridine		1.99	U	1.99	6.70
1,2,4-Trichlorobenzene		1.81	U	1.81	3.33
2,4,5-Trichlorophenol		2.18	U	2.18	3.33
2,4,6-Trichlorophenol		1.92	U	1.92	3.33

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	58		29 - 120
2-Fluorophenol (Surr)	48		10 - 120
Nitrobenzene-d5 (Surr)	52		27 - 120
Phenol-d5 (Surr)	53		10 - 120
Terphenyl-d14 (Surr)	65		13 - 120
2,4,6-Tribromophenol (Surr)	73		10 - 120

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-405

Lab Sample ID: 490-116078-11
Client Matrix: Soil

% Moisture: 16.0

Date Sampled: 11/11/2016 1315
Date Received: 11/12/2016 0950

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-388250	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-387989	Lab File ID:	111916-031.D
Dilution:	1.0			Initial Weight/Volume:	36.19 g
Analysis Date:	11/19/2016 2329			Final Weight/Volume:	1 mL
Prep Date:	11/18/2016 1302			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0316	U	0.0316	0.0662
Acenaphthylene		0.0286	U	0.0286	0.0662
Aniline		0.250	U	0.250	0.662
Anthracene		0.0364	J	0.0286	0.0662
Benzidine		0.201	U	0.201	0.329
Benzo(a)anthracene		0.0325	J	0.0296	0.0662
Benzo(a)pyrene		0.0283	J	0.0267	0.0662
Benzo(b)fluoranthene		0.0276	U	0.0276	0.0662
Benzo(g,h,i)perylene		0.0435	J	0.0326	0.0662
Benzoic acid		0.0592	U	0.0592	0.329
Benzo(k)fluoranthene		0.0267	U	0.0267	0.0662
Benzyl alcohol		0.192	U	0.192	0.329
Bis(2-chloroethoxy)methane		0.197	U	0.197	0.329
Bis(2-chloroethyl)ether		0.210	U	0.210	0.329
bis (2-chloroisopropyl) ether		0.195	U	0.195	0.329
Bis(2-ethylhexyl)phthalate		0.204	U	0.204	0.329
4-Bromophenyl phenyl ether		0.202	U	0.202	0.329
Butyl benzyl phthalate		0.212	U	0.212	0.329
Carbazole		0.204	U	0.204	0.329
4-Chloroaniline		0.224	U	0.224	0.329
4-Chloro-3-methylphenol		0.166	U	0.166	0.329
2-Chloronaphthalene		0.206	U	0.206	0.329
2-Chlorophenol		0.189	U	0.189	0.329
4-Chlorophenyl phenyl ether		0.198	U	0.198	0.329
Chrysene		0.0433	J	0.0365	0.0662
Dibenzo(a,h)anthracene		0.0316	U	0.0316	0.0662
Dibenzofuran		0.207	U	0.207	0.329
1,2-Dichlorobenzene		0.188	U	0.188	0.329
1,3-Dichlorobenzene		0.188	U	0.188	0.329
1,4-Dichlorobenzene		0.194	U	0.194	0.329
3,3'-Dichlorobenzidine		0.201	U	0.201	0.662
2,4-Dichlorophenol		0.173	U	0.173	0.329
Diethyl phthalate		0.209	U	0.209	0.329
2,4-Dimethylphenol		0.331	U	0.331	0.662
Dimethyl phthalate		0.204	U	0.204	0.329
Di-n-butyl phthalate		0.208	U	0.208	0.329
4,6-Dinitro-o-cresol		0.226	U	0.226	0.329
2,4-Dinitrophenol		0.248	U	0.248	0.329
2,4-Dinitrotoluene		0.205	U	0.205	0.329
2,6-Dinitrotoluene		0.220	U	0.220	0.329
Di-n-octyl phthalate		0.176	U	0.176	0.329
1,2-Diphenylhydrazine (as Azobenzene)		0.231	U	0.231	0.329
Fluoranthene		0.0336	U	0.0336	0.0662
Fluorene		0.0549	J	0.0286	0.0662
Hexachlorobenzene		0.247	U	0.247	0.329
Hexachlorobutadiene		0.165	U	0.165	0.329

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-405

Lab Sample ID: 490-116078-11
Client Matrix: Soil

% Moisture: 16.0

Date Sampled: 11/11/2016 1315
Date Received: 11/12/2016 0950

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-388250	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-387989	Lab File ID:	111916-031.D
Dilution:	1.0			Initial Weight/Volume:	36.19 g
Analysis Date:	11/19/2016 2329			Final Weight/Volume:	1 mL
Prep Date:	11/18/2016 1302			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.148	U	0.148	0.329
Hexachloroethane		0.179	U	0.179	0.329
Ideno(1,2,3-cd)pyrene		0.0286	U	0.0286	0.0662
Isophorone		0.186	U	0.186	0.329
1-Methylnaphthalene		0.0581	J	0.0276	0.0662
2-Methylnaphthalene		0.0257	U	0.0257	0.0662
Naphthalene		0.0286	U	0.0286	0.0662
2-Nitroaniline		0.204	U	0.204	0.329
3-Nitroaniline		0.227	U	0.227	0.662
4-Nitroaniline		0.235	U	0.235	0.662
Nitrobenzene		0.198	U	0.198	0.329
2-Nitrophenol		0.240	U	0.240	0.329
4-Nitrophenol		0.377	U	0.377	0.662
N-Nitrosodimethylamine		0.0197	U	0.0197	0.329
N-Nitrosodi-n-propylamine		0.192	U	0.192	0.329
N-Nitrosodiphenylamine		0.0523	U	0.0523	0.329
Pentachlorophenol		0.263	U	0.263	0.662
Phenanthrene		0.305		0.0336	0.0662
Phenol		0.200	U	0.200	0.329
Pyrene		0.185		0.0336	0.0662
Pyridine		0.196	U	0.196	0.662
1,2,4-Trichlorobenzene		0.179	U	0.179	0.329
2,4,5-Trichlorophenol		0.215	U	0.215	0.329
2,4,6-Trichlorophenol		0.190	U	0.190	0.329

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	72		29 - 120
2-Fluorophenol (Surr)	54		10 - 120
Nitrobenzene-d5 (Surr)	56		27 - 120
Phenol-d5 (Surr)	57		10 - 120
Terphenyl-d14 (Surr)	92		13 - 120
2,4,6-Tribromophenol (Surr)	86		10 - 120

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-404

Lab Sample ID: 490-116078-12
Client Matrix: Soil

% Moisture: 24.9

Date Sampled: 11/11/2016 1115
Date Received: 11/12/2016 0950

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-388250	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-387989	Lab File ID:	111916-032.D
Dilution:	10			Initial Weight/Volume:	40.45 g
Analysis Date:	11/19/2016 2348			Final Weight/Volume:	1 mL
Prep Date:	11/18/2016 1302			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.316	U	0.316	0.662
Acenaphthylene		0.286	U	0.286	0.662
Aniline		2.50	U	2.50	6.62
Anthracene		0.286	U	0.286	0.662
Benzidine		2.01	U	2.01	3.29
Benzo(a)anthracene		0.808		0.296	0.662
Benzo(a)pyrene		0.892		0.267	0.662
Benzo(b)fluoranthene		0.276	U	0.276	0.662
Benzo(g,h,i)perylene		0.698		0.326	0.662
Benzoic acid		0.592	U	0.592	3.29
Benzo(k)fluoranthene		0.267	U	0.267	0.662
Benzyl alcohol		1.92	U	1.92	3.29
Bis(2-chloroethoxy)methane		1.97	U	1.97	3.29
Bis(2-chloroethyl)ether		2.10	U	2.10	3.29
bis (2-chloroisopropyl) ether		1.96	U	1.96	3.29
Bis(2-ethylhexyl)phthalate		2.04	U	2.04	3.29
4-Bromophenyl phenyl ether		2.02	U	2.02	3.29
Butyl benzyl phthalate		2.12	U	2.12	3.29
Carbazole		2.04	U	2.04	3.29
4-Chloroaniline		2.24	U	2.24	3.29
4-Chloro-3-methylphenol		1.66	U	1.66	3.29
2-Chloronaphthalene		2.06	U	2.06	3.29
2-Chlorophenol		1.89	U	1.89	3.29
4-Chlorophenyl phenyl ether		1.98	U	1.98	3.29
Chrysene		1.67		0.365	0.662
Dibenzo(a,h)anthracene		0.316	U	0.316	0.662
Dibenzofuran		2.07	U	2.07	3.29
1,2-Dichlorobenzene		1.88	U	1.88	3.29
1,3-Dichlorobenzene		1.88	U	1.88	3.29
1,4-Dichlorobenzene		1.94	U	1.94	3.29
3,3'-Dichlorobenzidine		2.01	U	2.01	6.62
2,4-Dichlorophenol		1.73	U	1.73	3.29
Diethyl phthalate		2.09	U	2.09	3.29
2,4-Dimethylphenol		3.31	U	3.31	6.62
Dimethyl phthalate		2.04	U	2.04	3.29
Di-n-butyl phthalate		2.08	U	2.08	3.29
4,6-Dinitro-o-cresol		2.26	U	2.26	3.29
2,4-Dinitrophenol		2.48	U	2.48	3.29
2,4-Dinitrotoluene		2.05	U	2.05	3.29
2,6-Dinitrotoluene		2.20	U	2.20	3.29
Di-n-octyl phthalate		1.76	U	1.76	3.29
1,2-Diphenylhydrazine (as Azobenzene)		2.31	U	2.31	3.29
Fluoranthene		1.45		0.336	0.662
Fluorene		0.355	J	0.286	0.662
Hexachlorobenzene		2.47	U	2.47	3.29
Hexachlorobutadiene		1.65	U	1.65	3.29

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-404

Lab Sample ID: 490-116078-12
Client Matrix: Soil

% Moisture: 24.9

Date Sampled: 11/11/2016 1115
Date Received: 11/12/2016 0950

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-388250	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-387989	Lab File ID:	111916-032.D
Dilution:	10			Initial Weight/Volume:	40.45 g
Analysis Date:	11/19/2016 2348			Final Weight/Volume:	1 mL
Prep Date:	11/18/2016 1302			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		1.48	U	1.48	3.29
Hexachloroethane		1.79	U	1.79	3.29
Ideno(1,2,3-cd)pyrene		0.405	J	0.286	0.662
Isophorone		1.86	U	1.86	3.29
1-Methylnaphthalene		0.360	J	0.276	0.662
2-Methylnaphthalene		0.257	U	0.257	0.662
Naphthalene		0.286	U	0.286	0.662
2-Nitroaniline		2.04	U	2.04	3.29
3-Nitroaniline		2.27	U	2.27	6.62
4-Nitroaniline		2.35	U	2.35	6.62
Nitrobenzene		1.98	U	1.98	3.29
2-Nitrophenol		2.40	U	2.40	3.29
4-Nitrophenol		3.77	U	3.77	6.62
N-Nitrosodimethylamine		0.197	U	0.197	3.29
N-Nitrosodi-n-propylamine		1.92	U	1.92	3.29
N-Nitrosodiphenylamine		0.523	U	0.523	3.29
Pentachlorophenol		2.63	U	2.63	6.62
Phenanthrene		1.72		0.336	0.662
Phenol		2.00	U	2.00	3.29
Pyrene		2.97		0.336	0.662
Pyridine		1.97	U	1.97	6.62
1,2,4-Trichlorobenzene		1.79	U	1.79	3.29
2,4,5-Trichlorophenol		2.15	U	2.15	3.29
2,4,6-Trichlorophenol		1.90	U	1.90	3.29

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	85		29 - 120
2-Fluorophenol (Surr)	46		10 - 120
Nitrobenzene-d5 (Surr)	60		27 - 120
Phenol-d5 (Surr)	67		10 - 120
Terphenyl-d14 (Surr)	96		13 - 120
2,4,6-Tribromophenol (Surr)	96		10 - 120

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-402

Lab Sample ID: 490-116078-1
Client Matrix: Soil
% Moisture: 33.4

Date Sampled: 11/10/2016 1310
Date Received: 11/12/2016 0950

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-388752	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-388600	Lab File ID:	TALS_112116-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.507 g
Analysis Date:	11/21/2016 1948			Final Weight/Volume:	100 mL
Prep Date:	11/21/2016 1437				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10300		14.8	29.6
Antimony		1.48	U	1.48	14.8
Arsenic		5.27		1.78	2.96
Barium		225		1.48	2.96
Beryllium		0.296	U	0.296	1.48
Cadmium		0.148	J	0.148	1.48
Calcium		2480		148	296
Chromium		15.1		1.33	1.48
Cobalt		3.52		1.48	2.96
Copper		22.5		1.63	2.96
Iron		16000		29.6	59.2
Lead		17.6		0.740	1.48
Magnesium		1480		148	296
Manganese		137		1.48	4.44
Nickel		7.67		0.888	2.96
Potassium		1100		148	296
Selenium		1.95	J	1.63	2.96
Silver		0.592	U	0.592	1.48
Sodium		506		192	296
Thallium		0.888	U	0.888	2.96
Vanadium		22.0		2.96	14.8
Zinc		43.8		7.40	14.8

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-389646	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-389507	Lab File ID:	112516-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.622 g
Analysis Date:	11/25/2016 1205			Final Weight/Volume:	100 mL
Prep Date:	11/25/2016 0742				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0434	U	0.0434	0.145

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-403

Lab Sample ID: 490-116078-2
Client Matrix: Soil

% Moisture: 14.2

Date Sampled: 11/10/2016 1420
Date Received: 11/12/2016 0950

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-388752	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-388600	Lab File ID:	TALS_112116-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.500 g
Analysis Date:	11/21/2016 1953			Final Weight/Volume:	100 mL
Prep Date:	11/21/2016 1437				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5210		11.7	23.3
Antimony		9.26	J	1.17	11.7
Arsenic		33.3		1.40	2.33
Barium		79.8		1.17	2.33
Beryllium		0.560	J	0.233	1.17
Cadmium		0.117	U	0.117	1.17
Calcium		2030		117	233
Chromium		12.3		1.05	1.17
Cobalt		4.24		1.17	2.33
Copper		65.4		1.28	2.33
Iron		27800		23.3	46.6
Lead		927		0.583	1.17
Magnesium		668		117	233
Manganese		108		1.17	3.50
Nickel		26.9		0.700	2.33
Potassium		309		117	233
Selenium		4.52		1.28	2.33
Silver		0.466	U	0.466	1.17
Sodium		219	J	152	233
Thallium		0.700	U	0.700	2.33
Vanadium		32.8		2.33	11.7
Zinc		83.6		5.83	11.7

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-389646	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-389507	Lab File ID:	112516-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.622 g
Analysis Date:	11/25/2016 1213			Final Weight/Volume:	100 mL
Prep Date:	11/25/2016 0742				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0759	J	0.0337	0.112

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-104-16-20

Lab Sample ID: 490-116078-4
Client Matrix: Soil

% Moisture: 4.8

Date Sampled: 11/09/2016 1315
Date Received: 11/12/2016 0950

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-388752	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-388600	Lab File ID:	TALS_112116-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.515 g
Analysis Date:	11/21/2016 1958			Final Weight/Volume:	100 mL
Prep Date:	11/21/2016 1437				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4650		10.2	20.4
Antimony		1.02	U	1.02	10.2
Arsenic		4.49		1.22	2.04
Barium		24.7		1.02	2.04
Beryllium		0.204	J	0.204	1.02
Cadmium		0.122	J	0.102	1.02
Calcium		43000		102	204
Chromium		5.51		0.918	1.02
Cobalt		3.43		1.02	2.04
Copper		12.7		1.12	2.04
Iron		8020		20.4	40.8
Lead		7.97		0.510	1.02
Magnesium		3330		102	204
Manganese		446		1.02	3.06
Nickel		8.32		0.612	2.04
Potassium		545		102	204
Selenium		1.12	U	1.12	2.04
Silver		0.408	U	0.408	1.02
Sodium		133	U	133	204
Thallium		0.612	U	0.612	2.04
Vanadium		7.77	J	2.04	10.2
Zinc		50.7		5.10	10.2

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-389646	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-389507	Lab File ID:	112516-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.609 g
Analysis Date:	11/25/2016 1216			Final Weight/Volume:	100 mL
Prep Date:	11/25/2016 0742				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0310	U	0.0310	0.103

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-100-16-20

Lab Sample ID: 490-116078-5
Client Matrix: Soil

% Moisture: 15.3

Date Sampled: 11/09/2016 1010
Date Received: 11/12/2016 0950

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-388752	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-388600	Lab File ID:	TALS_112116-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.503 g
Analysis Date:	11/21/2016 2014			Final Weight/Volume:	100 mL
Prep Date:	11/21/2016 1437				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5520		11.7	23.5
Antimony		1.17	U	1.17	11.7
Arsenic		11.1		1.41	2.35
Barium		41.9		1.17	2.35
Beryllium		0.258	J	0.235	1.17
Cadmium		0.117	J	0.117	1.17
Calcium		42400		117	235
Chromium		6.76		1.06	1.17
Cobalt		4.95		1.17	2.35
Copper		17.0		1.29	2.35
Iron		12400		23.5	47.0
Lead		16.0		0.587	1.17
Magnesium		10400		117	235
Manganese		540		1.17	3.52
Nickel		11.3		0.704	2.35
Potassium		688		117	235
Selenium		1.29	U	1.29	2.35
Silver		0.470	U	0.470	1.17
Sodium		153	U	153	235
Thallium		0.704	U	0.704	2.35
Vanadium		9.27	J	2.35	11.7
Zinc		80.4		5.87	11.7

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-389646	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-389507	Lab File ID:	112516-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.605 g
Analysis Date:	11/25/2016 1219			Final Weight/Volume:	100 mL
Prep Date:	11/25/2016 0742				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0351	U	0.0351	0.117

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-101-12-15

Lab Sample ID: 490-116078-6
Client Matrix: Soil

% Moisture: 8.6

Date Sampled: 11/09/2016 1115
Date Received: 11/12/2016 0950

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-388752	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-388600	Lab File ID:	TALS_112116-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.511 g
Analysis Date:	11/21/2016 2019			Final Weight/Volume:	100 mL
Prep Date:	11/21/2016 1437				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		3930		10.7	21.4
Antimony		1.07	U	1.07	10.7
Arsenic		7.22		1.29	2.14
Barium		19.6		1.07	2.14
Beryllium		0.214	U	0.214	1.07
Cadmium		0.171	J	0.107	1.07
Calcium		69400		107	214
Chromium		6.83		0.964	1.07
Cobalt		4.16		1.07	2.14
Copper		15.0		1.18	2.14
Iron		9360		21.4	42.8
Lead		9.66		0.536	1.07
Magnesium		15300		107	214
Manganese		749		1.07	3.21
Nickel		9.23		0.643	2.14
Potassium		393		107	214
Selenium		1.18	U	1.18	2.14
Silver		0.428	U	0.428	1.07
Sodium		139	U	139	214
Thallium		0.643	U	0.643	2.14
Vanadium		7.39	J	2.14	10.7
Zinc		65.9		5.36	10.7

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-389646	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-389507	Lab File ID:	112516-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.596 g
Analysis Date:	11/25/2016 1222			Final Weight/Volume:	100 mL
Prep Date:	11/25/2016 0742				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0331	U	0.0331	0.110

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-102-16-19

Lab Sample ID: 490-116078-7
Client Matrix: Soil

% Moisture: 10.1

Date Sampled: 11/09/2016 1145
Date Received: 11/12/2016 0950

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-388752	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-388600	Lab File ID:	TALS_112116-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.504 g
Analysis Date:	11/21/2016 2024			Final Weight/Volume:	100 mL
Prep Date:	11/21/2016 1437				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		3840		11.0	22.1
Antimony		1.10	U	1.10	11.0
Arsenic		10.9		1.32	2.21
Barium		33.3		1.10	2.21
Beryllium		0.221	U	0.221	1.10
Cadmium		0.110	U	0.110	1.10
Calcium		51500		110	221
Chromium		5.05		0.993	1.10
Cobalt		3.57		1.10	2.21
Copper		41.0		1.21	2.21
Iron		14600		22.1	44.1
Lead		87.2		0.551	1.10
Magnesium		12400		110	221
Manganese		406		1.10	3.31
Nickel		9.53		0.662	2.21
Potassium		256		110	221
Selenium		1.52	J	1.21	2.21
Silver		0.441	U	0.441	1.10
Sodium		143	U	143	221
Thallium		0.662	U	0.662	2.21
Vanadium		7.61	J	2.21	11.0
Zinc		48.8		5.51	11.0

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-389646	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-389507	Lab File ID:	112516-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.625 g
Analysis Date:	11/25/2016 1224			Final Weight/Volume:	100 mL
Prep Date:	11/25/2016 0742				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0381	J	0.0320	0.107

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-401

Lab Sample ID: 490-116078-8
Client Matrix: Soil

% Moisture: 13.4

Date Sampled: 11/10/2016 1300
Date Received: 11/12/2016 0950

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-388752	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-388600	Lab File ID:	TALS_112116-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.505 g
Analysis Date:	11/21/2016 2029			Final Weight/Volume:	100 mL
Prep Date:	11/21/2016 1437				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		8960		11.4	22.9
Antimony		1.14	U	1.14	11.4
Arsenic		27.5		1.37	2.29
Barium		114		1.14	2.29
Beryllium		0.915	J	0.229	1.14
Cadmium		0.114	U	0.114	1.14
Calcium		3240		114	229
Chromium		18.6		1.03	1.14
Cobalt		12.1		1.14	2.29
Copper		67.1		1.26	2.29
Iron		36100		22.9	45.8
Lead		166		0.572	1.14
Magnesium		3810		114	229
Manganese		646		1.14	3.43
Nickel		28.2		0.686	2.29
Potassium		685		114	229
Selenium		4.67		1.26	2.29
Silver		0.458	U	0.458	1.14
Sodium		149	U	149	229
Thallium		0.686	U	0.686	2.29
Vanadium		24.5		2.29	11.4
Zinc		73.3		5.72	11.4

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-389646	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-389507	Lab File ID:	112516-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.620 g
Analysis Date:	11/25/2016 1227			Final Weight/Volume:	100 mL
Prep Date:	11/25/2016 0742				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0964	J	0.0335	0.112

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: SB-103-12-14

Lab Sample ID: 490-116078-9
Client Matrix: Soil

% Moisture: 9.6

Date Sampled: 11/09/2016 1200
Date Received: 11/12/2016 0950

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-388752	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-388600	Lab File ID:	TALS_112116-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.496 g
Analysis Date:	11/21/2016 2034			Final Weight/Volume:	100 mL
Prep Date:	11/21/2016 1437				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		3440		11.1	22.3
Antimony		1.11	U	1.11	11.1
Arsenic		8.85		1.34	2.23
Barium		14.4		1.11	2.23
Beryllium		0.223	U	0.223	1.11
Cadmium		0.201	J	0.111	1.11
Calcium		7800		111	223
Chromium		5.17		1.00	1.11
Cobalt		4.26		1.11	2.23
Copper		17.1		1.23	2.23
Iron		11700		22.3	44.6
Lead		7.42		0.557	1.11
Magnesium		3540		111	223
Manganese		1100		1.11	3.34
Nickel		10.8		0.669	2.23
Potassium		316		111	223
Selenium		1.85	J	1.23	2.23
Silver		0.446	U	0.446	1.11
Sodium		145	U	145	223
Thallium		0.914	J	0.669	2.23
Vanadium		6.89	J	2.23	11.1
Zinc		54.2		5.57	11.1

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-389646	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-389507	Lab File ID:	112516-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.595 g
Analysis Date:	11/25/2016 1230			Final Weight/Volume:	100 mL
Prep Date:	11/25/2016 0742				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0334	U	0.0334	0.111

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-400

Lab Sample ID: 490-116078-10
Client Matrix: Soil

% Moisture: 23.9

Date Sampled: 11/10/2016 1045
Date Received: 11/12/2016 0950

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-388752	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-388600	Lab File ID:	TALS_112116-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.508 g
Analysis Date:	11/21/2016 2039			Final Weight/Volume:	100 mL
Prep Date:	11/21/2016 1437				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		11500		12.9	25.9
Antimony		1.29	U	1.29	12.9
Arsenic		19.5		1.55	2.59
Barium		121		1.29	2.59
Beryllium		0.698	J	0.259	1.29
Cadmium		0.207	J	0.129	1.29
Calcium		4460		129	259
Chromium		21.2		1.16	1.29
Cobalt		10.5		1.29	2.59
Copper		101		1.42	2.59
Iron		26300		25.9	51.7
Lead		226		0.646	1.29
Magnesium		4770		129	259
Manganese		611		1.29	3.88
Nickel		24.3		0.776	2.59
Potassium		1170		129	259
Selenium		3.36		1.42	2.59
Silver		0.517	U	0.517	1.29
Sodium		168	U	168	259
Thallium		0.776	U	0.776	2.59
Vanadium		23.1		2.59	12.9
Zinc		99.9		6.46	12.9

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-389646	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-389507	Lab File ID:	112516-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.600 g
Analysis Date:	11/25/2016 1238			Final Weight/Volume:	100 mL
Prep Date:	11/25/2016 0742				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.130	J	0.0394	0.131

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-405

Lab Sample ID: 490-116078-11
Client Matrix: Soil

% Moisture: 16.0

Date Sampled: 11/11/2016 1315
Date Received: 11/12/2016 0950

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-388752	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-388600	Lab File ID:	TALS_112116-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.522 g
Analysis Date:	11/21/2016 2045			Final Weight/Volume:	100 mL
Prep Date:	11/21/2016 1437				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10600		11.4	22.8
Antimony		1.14	U	1.14	11.4
Arsenic		8.85		1.37	2.28
Barium		44.3		1.14	2.28
Beryllium		0.479	J	0.228	1.14
Cadmium		0.114	U	0.114	1.14
Calcium		487		114	228
Chromium		11.7		1.03	1.14
Cobalt		9.42		1.14	2.28
Copper		40.6		1.25	2.28
Iron		21900		22.8	45.6
Lead		15.8		0.570	1.14
Magnesium		2340		114	228
Manganese		313		1.14	3.42
Nickel		21.2		0.685	2.28
Potassium		467		114	228
Selenium		2.65		1.25	2.28
Silver		0.456	U	0.456	1.14
Sodium		148	U	148	228
Thallium		0.685	U	0.685	2.28
Vanadium		14.5		2.28	11.4
Zinc		58.0		5.70	11.4

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-389646	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-389507	Lab File ID:	112516-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.609 g
Analysis Date:	11/25/2016 1241			Final Weight/Volume:	100 mL
Prep Date:	11/25/2016 0742				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0352	U	0.0352	0.117

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Client Sample ID: END-404

Lab Sample ID: 490-116078-12
Client Matrix: Soil

% Moisture: 24.9

Date Sampled: 11/11/2016 1115
Date Received: 11/12/2016 0950

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-388752	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-388600	Lab File ID:	TALS_112116-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.514 g
Analysis Date:	11/21/2016 2050			Final Weight/Volume:	100 mL
Prep Date:	11/21/2016 1437				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		8200		13.0	25.9
Antimony		1.30	U	1.30	13.0
Arsenic		23.3		1.55	2.59
Barium		129		1.30	2.59
Beryllium		0.751	J	0.259	1.30
Cadmium		0.155	J	0.130	1.30
Calcium		4370		130	259
Chromium		12.0		1.17	1.30
Cobalt		7.46		1.30	2.59
Copper		64.7		1.42	2.59
Iron		21000		25.9	51.8
Lead		847		0.648	1.30
Magnesium		1440		130	259
Manganese		271		1.30	3.89
Nickel		16.9		0.777	2.59
Potassium		656		130	259
Selenium		3.08		1.42	2.59
Silver		0.518	U	0.518	1.30
Sodium		228	J	168	259
Thallium		0.777	U	0.777	2.59
Vanadium		20.0		2.59	13.0
Zinc		57.7		6.48	13.0

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-389646	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-389507	Lab File ID:	112516-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.624 g
Analysis Date:	11/25/2016 1244			Final Weight/Volume:	100 mL
Prep Date:	11/25/2016 0742				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0458	J	0.0384	0.128

General Chemistry

Client Sample ID: **END-402**

Lab Sample ID: 490-116078-1
Client Matrix: Soil

Date Sampled: 11/10/2016 1310
Date Received: 11/12/2016 0950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	66.6		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-386813 Analysis Date: 11/15/2016 1114 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-403**

Lab Sample ID: 490-116078-2
Client Matrix: Soil

Date Sampled: 11/10/2016 1420
Date Received: 11/12/2016 0950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	85.8		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-386813 Analysis Date: 11/15/2016 1114 DryWt Corrected: N

General Chemistry

Client Sample ID: **SB-104-16-20**

Lab Sample ID: 490-116078-4
Client Matrix: Soil

Date Sampled: 11/09/2016 1315
Date Received: 11/12/2016 0950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	95.2		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-386813 Analysis Date: 11/15/2016 1114 DryWt Corrected: N

General Chemistry

Client Sample ID: **SB-100-16-20**

Lab Sample ID: 490-116078-5
Client Matrix: Soil

Date Sampled: 11/09/2016 1010
Date Received: 11/12/2016 0950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	84.7		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-386813 Analysis Date: 11/15/2016 1114 DryWt Corrected: N

General Chemistry

Client Sample ID: **SB-101-12-15**

Lab Sample ID: 490-116078-6
Client Matrix: Soil

Date Sampled: 11/09/2016 1115
Date Received: 11/12/2016 0950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	91.4		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-386813 Analysis Date: 11/15/2016 1114 DryWt Corrected: N

General Chemistry

Client Sample ID: **SB-102-16-19**

Lab Sample ID: 490-116078-7
Client Matrix: Soil

Date Sampled: 11/09/2016 1145
Date Received: 11/12/2016 0950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	89.9		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-386813 Analysis Date: 11/15/2016 1114 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-401**

Lab Sample ID: 490-116078-8
Client Matrix: Soil

Date Sampled: 11/10/2016 1300
Date Received: 11/12/2016 0950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	86.6		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-386813 Analysis Date: 11/15/2016 1114 DryWt Corrected: N

General Chemistry

Client Sample ID: **SB-103-12-14**

Lab Sample ID: 490-116078-9
Client Matrix: Soil

Date Sampled: 11/09/2016 1200
Date Received: 11/12/2016 0950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	90.4		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-386813 Analysis Date: 11/15/2016 1114 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-400**

Lab Sample ID: 490-116078-10
Client Matrix: Soil

Date Sampled: 11/10/2016 1045
Date Received: 11/12/2016 0950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	76.1		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-386813 Analysis Date: 11/15/2016 1114 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-405**

Lab Sample ID: 490-116078-11
Client Matrix: Soil

Date Sampled: 11/11/2016 1315
Date Received: 11/12/2016 0950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	84.0		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-386813 Analysis Date: 11/15/2016 1114 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-404**

Lab Sample ID: 490-116078-12
Client Matrix: Soil

Date Sampled: 11/11/2016 1115
Date Received: 11/12/2016 0950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	75.1		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-386813 Analysis Date: 11/15/2016 1114 DryWt Corrected: N

DATA REPORTING QUALIFIERS

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Analyzed for but not detected.
	E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.
	J	Indicates an estimated value.
	*	ISTD response or retention time outside acceptable limits
	*	LCS or LCSD is outside acceptance limits.
	*	MS or MSD is outside acceptance limits.
	*	Surrogate is outside acceptance limits.
	B	The analyte was found in an associated blank, as well as in the sample.
	N	This flag indicates the presumptive evidence of a compound.
GC/MS Semi VOA		
	U	Analyzed for but not detected.
	J	Indicates an estimated value.
Metals		
	U	Indicates analyzed for but not detected.
	J	Sample result is greater than the MDL but below the CRDL

QUALITY CONTROL RESULTS

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 490-386574					
490-116078-1	END-402	T	Solid	5035A	
490-116078-1MS	Matrix Spike	T	Solid	5035A	
490-116078-1MSD	Matrix Spike Duplicate	T	Solid	5035A	
490-116078-2	END-403	T	Solid	5035A	
490-116078-4	SB-104-16-20	T	Solid	5035A	
490-116078-5	SB-100-16-20	T	Solid	5035A	
490-116078-5MS	Matrix Spike	T	Solid	5035A	
490-116078-5MSD	Matrix Spike Duplicate	T	Solid	5035A	
490-116078-6	SB-101-12-15	T	Solid	5035A	
490-116078-7	SB-102-16-19	T	Solid	5035A	
490-116078-9	SB-103-12-14	T	Solid	5035A	
490-116078-10	END-400	T	Solid	5035A	
490-116078-11	END-405	T	Solid	5035A	
490-116078-12	END-404	T	Solid	5035A	
Prep Batch: 490-386576					
490-116078-1	END-402	T	Solid	5035A	
490-116078-2	END-403	T	Solid	5035A	
490-116078-4	SB-104-16-20	T	Solid	5035A	
490-116078-6	SB-101-12-15	T	Solid	5035A	
490-116078-7	SB-102-16-19	T	Solid	5035A	
490-116078-8	END-401	T	Solid	5035A	
490-116078-9	SB-103-12-14	T	Solid	5035A	
490-116078-10	END-400	T	Solid	5035A	
490-116078-11	END-405	T	Solid	5035A	
490-116078-12	END-404	T	Solid	5035A	
Analysis Batch:490-388425					
LCS 490-388425/3	Lab Control Sample	T	Water	8260C	
LCSD 490-388425/4	Lab Control Sample Duplicate	T	Water	8260C	
MB 490-388425/7	Method Blank	T	Water	8260C	
490-116078-3TB	TRIP BLANK	T	Water	8260C	
Analysis Batch:490-388454					
LCS 490-388454/3	Lab Control Sample	T	Solid	8260C	
LCSD 490-388454/4	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-388454/7	Method Blank	T	Solid	8260C	
490-116078-1	END-402	T	Solid	8260C	490-386576
490-116078-2	END-403	T	Solid	8260C	490-386576
490-116078-6	SB-101-12-15	T	Solid	8260C	490-386576
490-116078-7	SB-102-16-19	T	Solid	8260C	490-386576
490-116078-8	END-401	T	Solid	8260C	490-386576
490-116078-9	SB-103-12-14	T	Solid	8260C	490-386576
490-116078-10	END-400	T	Solid	8260C	490-386576
490-116078-12	END-404	T	Solid	8260C	490-386576

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:490-388744					
LCS 490-388744/3	Lab Control Sample	T	Solid	8260C	
LCSD 490-388744/4	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-388744/6	Method Blank	T	Solid	8260C	
490-116078-1	END-402	T	Solid	8260C	490-386574
490-116078-1MS	Matrix Spike	T	Solid	8260C	490-386574
490-116078-1MSD	Matrix Spike Duplicate	T	Solid	8260C	490-386574
490-116078-2	END-403	T	Solid	8260C	490-386574
490-116078-4	SB-104-16-20	T	Solid	8260C	490-386574
490-116078-5	SB-100-16-20	T	Solid	8260C	490-386574
490-116078-6	SB-101-12-15	T	Solid	8260C	490-386574
490-116078-7	SB-102-16-19	T	Solid	8260C	490-386574
490-116078-9	SB-103-12-14	T	Solid	8260C	490-386574
490-116078-10	END-400	T	Solid	8260C	490-386574
490-116078-11	END-405	T	Solid	8260C	490-386574
490-116078-12	END-404	T	Solid	8260C	490-386574
Analysis Batch:490-388748					
LCS 490-388748/3	Lab Control Sample	T	Solid	8260C	
LCSD 490-388748/4	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-388748/6	Method Blank	T	Solid	8260C	
490-116078-4	SB-104-16-20	T	Solid	8260C	490-386576
490-116078-8MS	Matrix Spike	T	Solid	8260C	490-388763
490-116078-8MSD	Matrix Spike Duplicate	T	Solid	8260C	490-388763
490-116078-11	END-405	T	Solid	8260C	490-386576
Prep Batch: 490-388763					
490-116078-8MS	Matrix Spike	T	Solid	5035A	
490-116078-8MSD	Matrix Spike Duplicate	T	Solid	5035A	
Analysis Batch:490-389170					
LCS 490-389170/3	Lab Control Sample	T	Solid	8260C	
LCSD 490-389170/4	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-389170/6	Method Blank	T	Solid	8260C	
490-116078-5	SB-100-16-20	T	Solid	8260C	490-386574
490-116078-5MS	Matrix Spike	T	Solid	8260C	490-386574
490-116078-5MSD	Matrix Spike Duplicate	T	Solid	8260C	490-386574

Report Basis
T = Total

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 490-387989					
LCS 490-387989/2-A	Lab Control Sample	T	Solid	3550C	
LCSD 490-387989/3-A	Lab Control Sample Duplicate	T	Solid	3550C	
MB 490-387989/1-A	Method Blank	T	Solid	3550C	
490-116078-1	END-402	T	Solid	3550C	
490-116078-2	END-403	T	Solid	3550C	
490-116078-4	SB-104-16-20	T	Solid	3550C	
490-116078-5	SB-100-16-20	T	Solid	3550C	
490-116078-6	SB-101-12-15	T	Solid	3550C	
490-116078-7	SB-102-16-19	T	Solid	3550C	
490-116078-8	END-401	T	Solid	3550C	
490-116078-9	SB-103-12-14	T	Solid	3550C	
490-116078-10	END-400	T	Solid	3550C	
490-116078-11	END-405	T	Solid	3550C	
490-116078-12	END-404	T	Solid	3550C	
Analysis Batch:490-388250					
LCS 490-387989/2-A	Lab Control Sample	T	Solid	8270D	490-387989
LCSD 490-387989/3-A	Lab Control Sample Duplicate	T	Solid	8270D	490-387989
MB 490-387989/1-A	Method Blank	T	Solid	8270D	490-387989
490-116078-1	END-402	T	Solid	8270D	490-387989
490-116078-2	END-403	T	Solid	8270D	490-387989
490-116078-4	SB-104-16-20	T	Solid	8270D	490-387989
490-116078-5	SB-100-16-20	T	Solid	8270D	490-387989
490-116078-6	SB-101-12-15	T	Solid	8270D	490-387989
490-116078-7	SB-102-16-19	T	Solid	8270D	490-387989
490-116078-8	END-401	T	Solid	8270D	490-387989
490-116078-9	SB-103-12-14	T	Solid	8270D	490-387989
490-116078-10	END-400	T	Solid	8270D	490-387989
490-116078-11	END-405	T	Solid	8270D	490-387989
490-116078-12	END-404	T	Solid	8270D	490-387989

Report Basis
T = Total

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 490-388600					
LCS 490-388600/2-A	Lab Control Sample	T	Solid	3051A	
MB 490-388600/1-A	Method Blank	T	Solid	3051A	
490-116078-1	END-402	T	Solid	3051A	
490-116078-2	END-403	T	Solid	3051A	
490-116078-4	SB-104-16-20	T	Solid	3051A	
490-116078-5	SB-100-16-20	T	Solid	3051A	
490-116078-6	SB-101-12-15	T	Solid	3051A	
490-116078-7	SB-102-16-19	T	Solid	3051A	
490-116078-8	END-401	T	Solid	3051A	
490-116078-9	SB-103-12-14	T	Solid	3051A	
490-116078-10	END-400	T	Solid	3051A	
490-116078-11	END-405	T	Solid	3051A	
490-116078-12	END-404	T	Solid	3051A	
Analysis Batch:490-388752					
LCS 490-388600/2-A	Lab Control Sample	T	Solid	6010C	490-388600
MB 490-388600/1-A	Method Blank	T	Solid	6010C	490-388600
490-116078-1	END-402	T	Solid	6010C	490-388600
490-116078-2	END-403	T	Solid	6010C	490-388600
490-116078-4	SB-104-16-20	T	Solid	6010C	490-388600
490-116078-5	SB-100-16-20	T	Solid	6010C	490-388600
490-116078-6	SB-101-12-15	T	Solid	6010C	490-388600
490-116078-7	SB-102-16-19	T	Solid	6010C	490-388600
490-116078-8	END-401	T	Solid	6010C	490-388600
490-116078-9	SB-103-12-14	T	Solid	6010C	490-388600
490-116078-10	END-400	T	Solid	6010C	490-388600
490-116078-11	END-405	T	Solid	6010C	490-388600
490-116078-12	END-404	T	Solid	6010C	490-388600
Prep Batch: 490-389507					
LCS 490-389507/2-A	Lab Control Sample	T	Solid	7471B	
MB 490-389507/1-A	Method Blank	T	Solid	7471B	
490-116078-1	END-402	T	Solid	7471B	
490-116078-1MS	Matrix Spike	T	Solid	7471B	
490-116078-1MSD	Matrix Spike Duplicate	T	Solid	7471B	
490-116078-2	END-403	T	Solid	7471B	
490-116078-4	SB-104-16-20	T	Solid	7471B	
490-116078-5	SB-100-16-20	T	Solid	7471B	
490-116078-6	SB-101-12-15	T	Solid	7471B	
490-116078-7	SB-102-16-19	T	Solid	7471B	
490-116078-8	END-401	T	Solid	7471B	
490-116078-9	SB-103-12-14	T	Solid	7471B	
490-116078-10	END-400	T	Solid	7471B	
490-116078-11	END-405	T	Solid	7471B	
490-116078-12	END-404	T	Solid	7471B	

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:490-389646					
LCS 490-389507/2-A	Lab Control Sample	T	Solid	7471B	490-389507
MB 490-389507/1-A	Method Blank	T	Solid	7471B	490-389507
490-116078-1	END-402	T	Solid	7471B	490-389507
490-116078-1MS	Matrix Spike	T	Solid	7471B	490-389507
490-116078-1MSD	Matrix Spike Duplicate	T	Solid	7471B	490-389507
490-116078-2	END-403	T	Solid	7471B	490-389507
490-116078-4	SB-104-16-20	T	Solid	7471B	490-389507
490-116078-5	SB-100-16-20	T	Solid	7471B	490-389507
490-116078-6	SB-101-12-15	T	Solid	7471B	490-389507
490-116078-7	SB-102-16-19	T	Solid	7471B	490-389507
490-116078-8	END-401	T	Solid	7471B	490-389507
490-116078-9	SB-103-12-14	T	Solid	7471B	490-389507
490-116078-10	END-400	T	Solid	7471B	490-389507
490-116078-11	END-405	T	Solid	7471B	490-389507
490-116078-12	END-404	T	Solid	7471B	490-389507

Report Basis
T = Total

General Chemistry

Analysis Batch:490-386813					
490-116078-1	END-402	T	Solid	Moisture	
490-116078-2	END-403	T	Solid	Moisture	
490-116078-4	SB-104-16-20	T	Solid	Moisture	
490-116078-5	SB-100-16-20	T	Solid	Moisture	
490-116078-5DU	Duplicate	T	Solid	Moisture	
490-116078-6	SB-101-12-15	T	Solid	Moisture	
490-116078-7	SB-102-16-19	T	Solid	Moisture	
490-116078-8	END-401	T	Solid	Moisture	
490-116078-9	SB-103-12-14	T	Solid	Moisture	
490-116078-10	END-400	T	Solid	Moisture	
490-116078-11	END-405	T	Solid	Moisture	
490-116078-12	END-404	T	Solid	Moisture	
490-116078-12MS	Matrix Spike	T	Solid	Moisture	
490-116078-12MSD	Matrix Spike Duplicate	T	Solid	Moisture	

Report Basis
T = Total

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
490-116078-1	END-402	142*	105	99	124
490-116078-2	END-403	210*	120	124	126*
490-116078-4	SB-104-16-20	148*	101	98	431*
490-116078-6	SB-101-12-15	1155*	114	110	250*
490-116078-7	SB-102-16-19	1018*	107	128	314*
490-116078-8	END-401	128	102	104	113
490-116078-9	SB-103-12-14	1037*	109	126	797*
490-116078-10	END-400	385*	116	113	335*
490-116078-11	END-405	502*	111	120	302*
490-116078-12	END-404	806*	122	128	537*
MB 490-388454/7		102	103	103	98
MB 490-388748/6		109	99	96	98
LCS 490-388454/3		84	96	95	97
LCS 490-388748/3		90	95	97	97
LCSD 490-388454/4		84	98	95	98
LCSD 490-388748/4		88	96	97	96
490-116078-8 MS	END-401 MS	117	105	106	111
490-116078-8 MSD	END-401 MSD	130*	108	106	119

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	70-130
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
490-116078-1	END-402	96	99	103	98
490-116078-2	END-403	98	100	105	98
490-116078-4	SB-104-16-20	101	100	102	103
490-116078-5	SB-100-16-20	113	94	99	118
490-116078-5	SB-100-16-20	108	99	98	110
490-116078-6	SB-101-12-15	106	99	100	99
490-116078-7	SB-102-16-19	100	99	97	101
490-116078-9	SB-103-12-14	103	100	100	104
490-116078-10	END-400	97	100	100	98
490-116078-11	END-405	98	98	99	99
490-116078-12	END-404	101	98	102	104
MB 490-388744/6		98	98	105	98
MB 490-389170/6		103	91	92	95
LCS 490-388744/3		96	102	102	99
LCS 490-389170/3		93	93	94	93
LCSD 490-388744/4		98	100	102	98
LCSD 490-389170/4		95	93	95	96
490-116078-1 MS	END-402 MS	95	100	101	101
490-116078-5 MS	SB-100-16-20 MS	120	92	95	128
490-116078-1 MSD	END-402 MSD	94	101	101	99
490-116078-5 MSD	SB-100-16-20 MSD	126	91	96	136*

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	70-130
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
490-116078-3	TRIP BLANK	104	98	95	106
MB 490-388425/7		106	97	92	110
LCS 490-388425/3		108	97	92	97
LCSD 490-388425/4		108	96	95	102

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	70-130
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Surrogate Recovery Report

8270D Semivolatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	FBP %Rec	2FP %Rec	NBZ %Rec	PHL %Rec	TPHL %Rec	TBP %Rec
490-116078-1	END-402	70	70	74	77	88	92
490-116078-2	END-403	73	71	70	62	82	83
490-116078-4	SB-104-16-20	81	81	73	71	90	97
490-116078-5	SB-100-16-20	70	59	73	70	83	98
490-116078-6	SB-101-12-15	73	67	82	72	82	71
490-116078-7	SB-102-16-19	80	61	72	66	89	89
490-116078-8	END-401	73	64	57	65	82	82
490-116078-9	SB-103-12-14	83	60	102	81	100	92
490-116078-10	END-400	58	48	52	53	65	73
490-116078-11	END-405	72	54	56	57	92	86
490-116078-12	END-404	85	46	60	67	96	96
MB 490-387989/1-A		72	66	64	73	85	84
LCS 490-387989/2-A		77	78	66	78	87	90
LCSD 490-387989/3-A		64	68	72	73	82	84

Surrogate	Acceptance Limits
FBP = 2-Fluorobiphenyl (Surr)	29-120
2FP = 2-Fluorophenol (Surr)	10-120
NBZ = Nitrobenzene-d5 (Surr)	27-120
PHL = Phenol-d5 (Surr)	10-120
TPHL = Terphenyl-d14 (Surr)	13-120
TBP = 2,4,6-Tribromophenol (Surr)	10-120

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-386574

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116078-1	Analysis Batch:	490-388744	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	490-386574	Lab File ID:	11221625.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.582 g
Analysis Date:	11/22/2016 2118			Final Weight/Volume:	5.0 mL
Prep Date:	11/10/2016 1310				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116078-1	Analysis Batch:	490-388744	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	490-386574	Lab File ID:	11221626.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.582 g
Analysis Date:	11/22/2016 2146			Final Weight/Volume:	5.0 mL
Prep Date:	11/10/2016 1310				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	100	101	10 - 150	1	50		
Benzene	96	96	21 - 150	0	50		
Bromobenzene	89	90	10 - 150	1	50		
Bromochloromethane	98	97	10 - 150	2	50		
Bromodichloromethane	96	96	10 - 150	0	50		
Bromoform	93	92	10 - 150	1	50		
Bromomethane	60	64	10 - 150	6	50		
2-Butanone (MEK)	94	94	10 - 150	0	50		
Carbon disulfide	89	90	10 - 150	1	50		
Carbon tetrachloride	97	97	10 - 150	0	50		
Chlorobenzene	97	96	10 - 150	1	50		
Chloroethane	49	50	10 - 150	2	50		
Chloroform	96	96	10 - 150	0	50		
Chloromethane	98	99	10 - 150	1	50		
cis-1,2-Dichloroethene	94	95	10 - 150	1	50		
cis-1,3-Dichloropropene	93	91	10 - 150	2	50		
Dibromochloromethane	97	95	10 - 150	2	50		
1,2-Dibromo-3-chloropropane	92	95	10 - 150	4	50		
1,2-Dibromoethane	95	94	10 - 150	1	50		
1,2-Dichlorobenzene	97	96	10 - 150	1	50		
1,3-Dichlorobenzene	96	93	10 - 150	2	50		
1,4-Dichlorobenzene	96	94	10 - 150	2	50		
Dichlorodifluoromethane	114	111	10 - 150	2	50		
1,1-Dichloroethane	93	93	10 - 150	0	50		
1,2-Dichloroethane	97	98	24 - 138	0	50		
1,1-Dichloroethene	95	93	10 - 150	1	50		
1,2-Dichloropropane	91	91	10 - 150	1	50		
1,3-Dichloropropane	93	93	10 - 150	0	50		
2,2-Dichloropropane	96	97	10 - 150	1	50		
1,1-Dichloropropene	94	94	10 - 150	0	50		
Ethylbenzene	98	97	10 - 150	1	50		
Hexachlorobutadiene	96	97	10 - 150	0	50		

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-386574

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116078-1	Analysis Batch:	490-388744	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	490-386574	Lab File ID:	11221625.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.582 g
Analysis Date:	11/22/2016 2118			Final Weight/Volume:	5.0 mL
Prep Date:	11/10/2016 1310				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116078-1	Analysis Batch:	490-388744	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	490-386574	Lab File ID:	11221626.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.582 g
Analysis Date:	11/22/2016 2146			Final Weight/Volume:	5.0 mL
Prep Date:	11/10/2016 1310				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2-Hexanone	93	93	10 - 150	0	50		
Isopropylbenzene	100	98	10 - 150	2	50		
Methylene bromide	95	94	10 - 150	1	50		
Methylene Chloride	92	91	24 - 150	1	50		
4-Methyl-2-pentanone (MIBK)	94	92	10 - 150	1	50		
Methyl tert butyl ether	97	96	10 - 150	2	50		
m,p-Xylene	98	96	10 - 150	2	50		
Naphthalene	98	97	10 - 150	1	50		
n-Butylbenzene	97	96	10 - 150	1	50		
N-Propylbenzene	91	90	10 - 150	1	50		
o-Chlorotoluene	94	93	10 - 150	1	50		
o-Xylene	97	96	10 - 150	2	50		
p-Chlorotoluene	91	91	10 - 150	0	50		
p-Isopropyltoluene	96	97	10 - 150	1	50		
sec-Butylbenzene	97	98	10 - 150	0	50		
Styrene	98	97	10 - 150	1	50		
tert-Butylbenzene	97	98	10 - 150	0	50		
1,1,1,2-Tetrachloroethane	96	95	10 - 150	1	50		
1,1,2,2-Tetrachloroethane	89	90	10 - 150	1	50		
Tetrachloroethene	95	93	10 - 150	1	50		
Toluene	97	97	17 - 150	1	50		
trans-1,2-Dichloroethene	92	92	10 - 150	0	50		
trans-1,3-Dichloropropene	95	93	10 - 150	2	50		
1,2,3-Trichlorobenzene	94	93	10 - 150	1	50		
1,2,4-Trichlorobenzene	92	91	10 - 150	1	50		
1,1,1-Trichloroethane	98	100	10 - 150	1	50		
1,1,2-Trichloroethane	94	93	10 - 150	1	50		
Trichloroethene	98	97	10 - 150	1	50		
Trichlorofluoromethane	103	99	10 - 150	4	50		
1,2,3-Trichloropropane	90	91	10 - 150	1	50		
1,2,4-Trimethylbenzene	98	97	10 - 150	1	50		
1,3,5-Trimethylbenzene	95	94	10 - 150	1	50		

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-386574

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116078-1	Analysis Batch:	490-388744	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	490-386574	Lab File ID:	11221625.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.582 g
Analysis Date:	11/22/2016 2118			Final Weight/Volume:	5.0 mL
Prep Date:	11/10/2016 1310				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116078-1	Analysis Batch:	490-388744	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	490-386574	Lab File ID:	11221626.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.582 g
Analysis Date:	11/22/2016 2146			Final Weight/Volume:	5.0 mL
Prep Date:	11/10/2016 1310				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Vinyl acetate	79	74	10 - 150	6	50		
Vinyl chloride	95	98	10 - 150	2	50		
Xylenes (total)	98	96	10 - 150	2	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	95	94	70 - 130
Dibromofluoromethane (Surr)	100	101	70 - 130
1,2-Dichloroethane-d4 (Surr)	101	101	70 - 130
Toluene-d8 (Surr)	101	99	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-386574

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116078-5	Analysis Batch:	490-389170	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-386574	Lab File ID:	112316-20.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	6.804 g
Analysis Date:	11/23/2016 2114			Final Weight/Volume:	5.0 mL
Prep Date:	11/09/2016 1010				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116078-5	Analysis Batch:	490-389170	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-386574	Lab File ID:	112316-21.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	6.804 g
Analysis Date:	11/23/2016 2144			Final Weight/Volume:	5.0 mL
Prep Date:	11/09/2016 1010				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	114	110	10 - 150	4	50		
Benzene	115	114	21 - 150	1	50		
Bromobenzene	109	116	10 - 150	6	50		
Bromochloromethane	110	97	10 - 150	13	50		
Bromodichloromethane	120	126	10 - 150	4	50		
Bromoform	110	104	10 - 150	6	50		
Bromomethane	72	77	10 - 150	7	50		
2-Butanone (MEK)	122	114	10 - 150	7	50		
Carbon disulfide	111	110	10 - 150	1	50		
Carbon tetrachloride	126	127	10 - 150	1	50		
Chlorobenzene	120	117	10 - 150	2	50		
Chloroethane	75	75	10 - 150	0	50		
Chloroform	108	109	10 - 150	1	50		
Chloromethane	112	105	10 - 150	6	50		
cis-1,2-Dichloroethene	113	113	10 - 150	0	50		
cis-1,3-Dichloropropene	104	102	10 - 150	2	50		
Dibromochloromethane	109	107	10 - 150	2	50		
1,2-Dibromo-3-chloropropane	129	130	10 - 150	0	50		
1,2-Dibromoethane	108	102	10 - 150	6	50		
1,2-Dichlorobenzene	116	117	10 - 150	1	50		
1,3-Dichlorobenzene	126	127	10 - 150	1	50		
1,4-Dichlorobenzene	119	126	10 - 150	5	50		
Dichlorodifluoromethane	134	136	10 - 150	1	50		
1,1-Dichloroethane	109	109	10 - 150	0	50		
1,2-Dichloroethane	101	100	24 - 138	1	50		
1,1-Dichloroethene	124	123	10 - 150	1	50		
1,2-Dichloropropane	114	111	10 - 150	3	50		
1,3-Dichloropropane	100	99	10 - 150	1	50		
2,2-Dichloropropane	129	130	10 - 150	0	50		
1,1-Dichloropropene	116	115	10 - 150	0	50		
Ethylbenzene	126	125	10 - 150	1	50		
Hexachlorobutadiene	78	71	10 - 150	9	50		

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-386574

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116078-5	Analysis Batch:	490-389170	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-386574	Lab File ID:	112316-20.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	6.804 g
Analysis Date:	11/23/2016 2114			Final Weight/Volume:	5.0 mL
Prep Date:	11/09/2016 1010				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116078-5	Analysis Batch:	490-389170	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-386574	Lab File ID:	112316-21.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	6.804 g
Analysis Date:	11/23/2016 2144			Final Weight/Volume:	5.0 mL
Prep Date:	11/09/2016 1010				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2-Hexanone	130	125	10 - 150	4	50		
Isopropylbenzene	128	126	10 - 150	2	50		
Methylene bromide	103	100	10 - 150	3	50		
Methylene Chloride	115	114	24 - 150	1	50		
4-Methyl-2-pentanone (MIBK)	112	108	10 - 150	4	50		
Methyl tert butyl ether	111	109	10 - 150	2	50		
m,p-Xylene	127	126	10 - 150	1	50		
Naphthalene	117	136	10 - 150	15	50		
n-Butylbenzene	115	114	10 - 150	1	50		
N-Propylbenzene	132	136	10 - 150	3	50		
o-Chlorotoluene	129	133	10 - 150	3	50		
o-Xylene	123	121	10 - 150	1	50		
p-Chlorotoluene	122	126	10 - 150	3	50		
p-Isopropyltoluene	124	124	10 - 150	0	50		
sec-Butylbenzene	123	122	10 - 150	1	50		
Styrene	124	121	10 - 150	2	50		
tert-Butylbenzene	130	131	10 - 150	1	50		
1,1,1,2-Tetrachloroethane	119	117	10 - 150	2	50		
1,1,2,2-Tetrachloroethane	155	159	10 - 150	3	50	*	*
Tetrachloroethene	126	125	10 - 150	1	50		
Toluene	119	117	17 - 150	2	50		
trans-1,2-Dichloroethene	112	110	10 - 150	2	50		
trans-1,3-Dichloropropene	107	106	10 - 150	1	50		
1,2,3-Trichlorobenzene	123	120	10 - 150	3	50		
1,2,4-Trichlorobenzene	126	129	10 - 150	3	50		
1,1,1-Trichloroethane	123	123	10 - 150	0	50		
1,1,2-Trichloroethane	858	850	10 - 150	1	50	E *	E *
Trichloroethene	118	119	10 - 150	1	50		
Trichlorofluoromethane	124	126	10 - 150	1	50		
1,2,3-Trichloropropane	139	153	10 - 150	10	50		*
1,2,4-Trimethylbenzene	129	130	10 - 150	1	50		
1,3,5-Trimethylbenzene	123	126	10 - 150	2	50		

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-386574

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116078-5	Analysis Batch:	490-389170	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-386574	Lab File ID:	112316-20.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	6.804 g
Analysis Date:	11/23/2016 2114			Final Weight/Volume:	5.0 mL
Prep Date:	11/09/2016 1010				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116078-5	Analysis Batch:	490-389170	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-386574	Lab File ID:	112316-21.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	6.804 g
Analysis Date:	11/23/2016 2144			Final Weight/Volume:	5.0 mL
Prep Date:	11/09/2016 1010				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Vinyl acetate	102	100	10 - 150	2	50		
Vinyl chloride	119	118	10 - 150	1	50		
Xylenes (total)	125	124	10 - 150	1	50		

Surrogate	MS % Rec	MSD % Rec		Acceptance Limits
4-Bromofluorobenzene (Surr)	120	126		70 - 130
Dibromofluoromethane (Surr)	92	91		70 - 130
1,2-Dichloroethane-d4 (Surr)	95	96		70 - 130
Toluene-d8 (Surr)	128	136	*	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Method Blank - Batch: 490-388425

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 490-388425/7	Analysis Batch:	490-388425	Instrument ID:	HP39
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11211607.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/21/2016 1237	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	11/21/2016 1237				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	2.66	U	2.66	25.0
Benzene	0.200	U	0.200	1.00
Bromobenzene	0.210	U	0.210	1.00
Bromochloromethane	0.150	U	0.150	1.00
Bromodichloromethane	0.170	U	0.170	1.00
Bromoform	0.290	U	0.290	1.00
Bromomethane	0.350	U	0.350	1.00
2-Butanone (MEK)	2.64	U	2.64	50.0
Carbon disulfide	0.220	U	0.220	1.00
Carbon tetrachloride	0.180	U	0.180	1.00
Chlorobenzene	0.180	U	0.180	1.00
Chloroethane	0.360	U	0.360	1.00
Chloroform	0.230	U	0.230	1.00
Chloromethane	0.360	U	0.360	1.00
cis-1,2-Dichloroethene	0.210	U	0.210	1.00
cis-1,3-Dichloropropene	0.170	U	0.170	1.00
Dibromochloromethane	0.250	U	0.250	1.00
1,2-Dibromo-3-chloropropane	0.940	U	0.940	10.0
1,2-Dibromoethane	0.210	U	0.210	1.00
1,2-Dichlorobenzene	0.190	U	0.190	1.00
1,3-Dichlorobenzene	0.180	U	0.180	1.00
1,4-Dichlorobenzene	0.170	U	0.170	1.00
Dichlorodifluoromethane	0.170	U	0.170	1.00
1,1-Dichloroethane	0.240	U	0.240	1.00
1,2-Dichloroethane	0.200	U	0.200	1.00
1,1-Dichloroethene	0.250	U	0.250	1.00
1,2-Dichloropropane	0.250	U	0.250	1.00
1,3-Dichloropropane	0.190	U	0.190	1.00
2,2-Dichloropropane	0.160	U	0.160	1.00
1,1-Dichloropropene	0.200	U	0.200	1.00
Ethylbenzene	0.190	U	0.190	1.00
Hexachlorobutadiene	0.380	U	0.380	2.00
2-Hexanone	1.28	U	1.28	10.0
Iodomethane	1.50	U	1.50	10.0
Isopropylbenzene	0.330	U	0.330	1.00
Methylene bromide	0.450	U	0.450	1.00
Methylene Chloride	1.00	U	1.00	5.00
4-Methyl-2-pentanone (MIBK)	0.810	U	0.810	10.0
Methyl tert butyl ether	0.170	U	0.170	1.00
m,p-Xylene	0.380	U	0.380	2.00
Naphthalene	0.210	U	0.210	5.00
n-Butylbenzene	0.240	U	0.240	1.00
N-Propylbenzene	0.170	U	0.170	1.00
o-Chlorotoluene	0.180	U	0.180	1.00
o-Xylene	0.200	U	0.200	1.00

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Method Blank - Batch: 490-388425

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 490-388425/7	Analysis Batch:	490-388425	Instrument ID:	HP39
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11211607.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/21/2016 1237	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	11/21/2016 1237				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.170	U	0.170	1.00
p-Isopropyltoluene	0.170	U	0.170	1.00
sec-Butylbenzene	0.170	U	0.170	1.00
Styrene	0.280	U	0.280	1.00
tert-Butylbenzene	0.170	U	0.170	1.00
1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
1,1,2,2-Tetrachloroethane	0.190	U	0.190	1.00
Tetrachloroethene	0.140	U	0.140	1.00
Toluene	0.170	U	0.170	1.00
trans-1,2-Dichloroethene	0.230	U	0.230	1.00
trans-1,3-Dichloropropene	0.170	U	0.170	1.00
1,2,3-Trichlorobenzene	0.230	U	0.230	1.00
1,2,4-Trichlorobenzene	0.200	U	0.200	1.00
1,1,1-Trichloroethane	0.190	U	0.190	1.00
1,1,2-Trichloroethane	0.190	U	0.190	1.00
Trichloroethene	0.200	U	0.200	1.00
Trichlorofluoromethane	0.210	U	0.210	1.00
1,2,3-Trichloropropane	0.230	U	0.230	1.00
1,2,4-Trimethylbenzene	0.170	U	0.170	1.00
1,3,5-Trimethylbenzene	0.170	U	0.170	1.00
Vinyl acetate	1.71	U	1.71	10.0
Vinyl chloride	0.180	U	0.180	1.00
Xylenes (total)	0.580	U	0.580	3.00

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
Dibromofluoromethane (Surr)	97	70 - 130
1,2-Dichloroethane-d4 (Surr)	92	70 - 130
Toluene-d8 (Surr)	110	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-388425

Method: 8260C
Preparation: 5030C

LCS Lab Sample ID:	LCS 490-388425/3	Analysis Batch:	490-388425	Instrument ID:	HP39
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11211603.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/21/2016 1053	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	11/21/2016 1053				10 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-388425/4	Analysis Batch:	490-388425	Instrument ID:	HP39
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11211604.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/21/2016 1119	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	11/21/2016 1119				10 mL
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	102	104	54 - 145	3	23		
Benzene	102	102	80 - 121	0	12		
Bromobenzene	102	102	68 - 130	0	16		
Bromochloromethane	96	96	78 - 129	1	16		
Bromodichloromethane	92	93	75 - 129	1	14		
Bromoform	105	101	46 - 145	4	14		
Bromomethane	87	87	41 - 150	0	19		
2-Butanone (MEK)	106	104	62 - 133	1	19		
Carbon disulfide	108	114	77 - 126	5	16		
Carbon tetrachloride	97	99	64 - 147	2	16		
Chlorobenzene	105	105	80 - 120	0	12		
Chloroethane	101	104	72 - 120	2	15		
Chloroform	99	102	73 - 129	3	14		
Chloromethane	103	107	12 - 150	4	20		
cis-1,2-Dichloroethene	102	108	76 - 125	6	15		
cis-1,3-Dichloropropene	99	101	74 - 140	2	15		
Dibromochloromethane	107	104	69 - 133	3	13		
1,2-Dibromo-3-chloropropane	98	94	54 - 125	4	19		
1,2-Dibromoethane	98	97	80 - 129	1	13		
1,2-Dichlorobenzene	103	104	80 - 121	1	12		
1,3-Dichlorobenzene	104	107	80 - 122	3	13		
1,4-Dichlorobenzene	104	106	80 - 120	2	12		
Dichlorodifluoromethane	80	88	37 - 127	10	16		
1,1-Dichloroethane	106	112	78 - 125	6	17		
1,2-Dichloroethane	95	99	77 - 121	4	13		
1,1-Dichloroethene	96	100	79 - 124	4	20		
1,2-Dichloropropane	102	107	75 - 120	4	15		
1,3-Dichloropropane	101	100	80 - 125	2	12		
2,2-Dichloropropane	91	96	43 - 161	6	20		
1,1-Dichloropropene	96	100	80 - 122	5	16		
Ethylbenzene	99	99	80 - 130	0	12		
Hexachlorobutadiene	97	100	49 - 146	3	16		
2-Hexanone	96	94	60 - 142	3	17		
Isopropylbenzene	97	98	80 - 141	2	13		
Methylene bromide	94	95	71 - 125	1	14		

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-388425

Method: 8260C
Preparation: 5030C

LCS Lab Sample ID:	LCS 490-388425/3	Analysis Batch:	490-388425	Instrument ID:	HP39
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11211603.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/21/2016 1053	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	11/21/2016 1053				10 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-388425/4	Analysis Batch:	490-388425	Instrument ID:	HP39
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11211604.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/21/2016 1119	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	11/21/2016 1119				10 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	99	107	79 - 123	8	15		
4-Methyl-2-pentanone (MIBK)	98	101	60 - 137	3	21		
Methyl tert butyl ether	87	92	72 - 133	5	16		
m,p-Xylene	101	102	80 - 141	1	12		
Naphthalene	84	84	62 - 138	0	15		
n-Butylbenzene	113	115	68 - 132	2	14		
N-Propylbenzene	109	113	75 - 129	4	14		
o-Chlorotoluene	124	128	75 - 126	3	15		*
o-Xylene	100	100	80 - 127	0	11		
p-Chlorotoluene	112	113	75 - 130	1	15		
p-Isopropyltoluene	108	111	75 - 128	3	13		
sec-Butylbenzene	108	112	76 - 128	4	14		
Styrene	103	103	80 - 127	0	12		
tert-Butylbenzene	108	110	76 - 126	2	14		
1,1,1,2-Tetrachloroethane	107	106	74 - 135	1	13		
1,1,2,2-Tetrachloroethane	113	112	69 - 131	1	15		
Tetrachloroethene	94	97	80 - 126	3	17		
Toluene	98	105	80 - 126	7	13		
trans-1,2-Dichloroethene	104	100	79 - 126	4	15		
trans-1,3-Dichloropropene	91	96	63 - 134	5	13		
1,2,3-Trichlorobenzene	87	89	62 - 133	2	16		
1,2,4-Trichlorobenzene	88	89	63 - 133	2	15		
1,1,1-Trichloroethane	91	93	78 - 135	3	15		
1,1,2-Trichloroethane	99	100	80 - 124	1	13		
Trichloroethene	94	95	80 - 123	1	14		
Trichlorofluoromethane	85	91	65 - 124	7	22		
1,2,3-Trichloropropane	107	106	70 - 131	0	14		
1,2,4-Trimethylbenzene	108	110	77 - 126	2	13		
1,3,5-Trimethylbenzene	110	111	77 - 127	1	14		
Vinyl acetate	110	113	54 - 139	3	20		
Vinyl chloride	97	100	68 - 120	3	15		
Xylenes (total)	100	101	80 - 132	0	11		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	108	108	70 - 130
Dibromofluoromethane (Surr)	97	96	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92	95	70 - 130
Toluene-d8 (Surr)	97	102	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Method Blank - Batch: 490-388454

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-388454/7	Analysis Batch:	490-388454	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112116-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/21/2016 1241	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	0.00840	U	0.00840	0.0500
Benzene	0.000670	U	0.000670	0.00200
Bromobenzene	0.000720	U	0.000720	0.00200
Bromochloromethane	0.000550	U	0.000550	0.00200
Bromodichloromethane	0.000550	U	0.000550	0.00200
Bromoform	0.000550	U	0.000550	0.00200
Bromomethane	0.00120	U	0.00120	0.00200
2-Butanone (MEK)	0.00510	U	0.00510	0.0500
Carbon disulfide	0.00360	U	0.00360	0.00500
Carbon tetrachloride	0.000670	U	0.000670	0.00200
Chlorobenzene	0.000670	U	0.000670	0.00200
Chloroethane	0.00190	U	0.00190	0.00500
Chloroform	0.000670	U	0.000670	0.00200
Chloromethane	0.000670	U	0.000670	0.00200
cis-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
cis-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
Dibromochloromethane	0.000340	U	0.000340	0.00200
1,2-Dibromo-3-chloropropane	0.000700	U	0.000700	0.00500
1,2-Dibromoethane	0.00100	U	0.00100	0.00200
1,2-Dichlorobenzene	0.000340	U	0.000340	0.00200
1,3-Dichlorobenzene	0.000670	U	0.000670	0.00200
1,4-Dichlorobenzene	0.000670	U	0.000670	0.00200
Dichlorodifluoromethane	0.00100	U	0.00100	0.00200
1,1-Dichloroethane	0.000670	U	0.000670	0.00200
1,2-Dichloroethane	0.000670	U	0.000670	0.00200
1,1-Dichloroethene	0.000570	U	0.000570	0.00200
1,2-Dichloropropane	0.000940	U	0.000940	0.00200
1,3-Dichloropropane	0.000940	U	0.000940	0.00200
2,2-Dichloropropane	0.000670	U	0.000670	0.00200
1,1-Dichloropropene	0.000510	U	0.000510	0.00200
Ethylbenzene	0.000670	U	0.000670	0.00200
Hexachlorobutadiene	0.00114	U	0.00114	0.00500
2-Hexanone	0.0167	U	0.0167	0.0500
Iodomethane	0.00670	U	0.00670	0.0200
Isopropylbenzene	0.000410	U	0.000410	0.00200
Methylene bromide	0.000560	U	0.000560	0.00200
Methylene Chloride	0.004827	J	0.000860	0.0100
4-Methyl-2-pentanone (MIBK)	0.00190	U	0.00190	0.0500
Methyl tert butyl ether	0.000960	U	0.000960	0.00200
m,p-Xylene	0.000560	U	0.000560	0.00400
Naphthalene	0.00170	U	0.00170	0.00500
n-Butylbenzene	0.000980	U	0.000980	0.00200
N-Propylbenzene	0.000670	U	0.000670	0.00200
o-Chlorotoluene	0.000890	U	0.000890	0.00200
o-Xylene	0.000670	U	0.000670	0.00200

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Method Blank - Batch: 490-388454

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-388454/7	Analysis Batch:	490-388454	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112116-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/21/2016 1241	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.000840	U	0.000840	0.00200
p-Isopropyltoluene	0.000670	U	0.000670	0.00200
sec-Butylbenzene	0.000670	U	0.000670	0.00200
Styrene	0.00110	U	0.00110	0.00200
tert-Butylbenzene	0.000900	U	0.000900	0.00200
1,1,1,2-Tetrachloroethane	0.000670	U	0.000670	0.00200
1,1,2,2-Tetrachloroethane	0.00100	U	0.00100	0.00200
Tetrachloroethene	0.000730	U	0.000730	0.00200
Toluene	0.000740	U	0.000740	0.00200
trans-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
trans-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
1,2,3-Trichlorobenzene	0.000380	U	0.000380	0.00200
1,2,4-Trichlorobenzene	0.000670	U	0.000670	0.00200
1,1,1-Trichloroethane	0.000920	U	0.000920	0.00200
1,1,2-Trichloroethane	0.00140	U	0.00140	0.00500
Trichloroethene	0.000960	U	0.000960	0.00200
Trichlorofluoromethane	0.00100	U	0.00100	0.00200
1,2,3-Trichloropropane	0.000550	U	0.000550	0.00200
1,2,4-Trimethylbenzene	0.00100	U	0.00100	0.00200
1,3,5-Trimethylbenzene	0.000750	U	0.000750	0.00200
Vinyl acetate	0.00440	U	0.00440	0.0200
Vinyl chloride	0.00110	U	0.00110	0.00200
Xylenes (total)	0.00123	U	0.00123	0.00600

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	102	70 - 130
Dibromofluoromethane (Surr)	103	70 - 130
1,2-Dichloroethane-d4 (Surr)	103	70 - 130
Toluene-d8 (Surr)	98	70 - 130

Method Blank TICs- Batch: 490-388454

Cas Number	Analyte	RT	Est. Result (mg	Qual
110-54-3	Hexane	3.25	0.0006710	J
	Tentatively Identified Compound		None	

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-388454

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-388454/3	Analysis Batch:	490-388454	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112116-03.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/21/2016 1038	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-388454/4	Analysis Batch:	490-388454	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112116-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/21/2016 1108	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	93	89	45 - 145	5	38		
Benzene	100	103	70 - 130	2	37		
Bromobenzene	92	92	67 - 130	1	40		
Bromochloromethane	100	102	70 - 133	1	15		
Bromodichloromethane	96	102	70 - 130	6	20		
Bromoform	106	107	59 - 137	1	17		
Bromomethane	104	101	32 - 150	3	45		
2-Butanone (MEK)	100	99	50 - 149	1	39		
Carbon disulfide	101	98	66 - 138	3	41		
Carbon tetrachloride	112	113	70 - 131	1	41		
Chlorobenzene	104	104	70 - 130	0	40		
Chloroethane	100	93	37 - 150	7	50		
Chloroform	97	99	70 - 130	2	15		
Chloromethane	82	77	53 - 150	7	47		
cis-1,2-Dichloroethene	101	103	70 - 132	2	18		
cis-1,3-Dichloropropene	93	96	70 - 130	3	42		
Dibromochloromethane	101	105	70 - 130	4	14		
1,2-Dibromo-3-chloropropane	96	92	47 - 144	4	38		
1,2-Dibromoethane	95	99	69 - 130	4	17		
1,2-Dichlorobenzene	109	108	70 - 134	1	40		
1,3-Dichlorobenzene	112	110	69 - 137	2	41		
1,4-Dichlorobenzene	113	111	66 - 134	2	41		
Dichlorodifluoromethane	105	101	32 - 150	4	50		
1,1-Dichloroethane	96	97	70 - 130	1	42		
1,2-Dichloroethane	93	96	65 - 134	4	16		
1,1-Dichloroethene	104	103	70 - 131	0	43		
1,2-Dichloropropane	92	94	70 - 130	3	15		
1,3-Dichloropropane	91	95	70 - 130	4	15		
2,2-Dichloropropane	113	111	57 - 150	1	42		
1,1-Dichloropropene	96	96	70 - 130	0	41		
Ethylbenzene	101	101	70 - 130	0	38		
Hexachlorobutadiene	100	99	64 - 137	1	44		
2-Hexanone	97	96	47 - 148	1	38		
Isopropylbenzene	98	98	70 - 130	1	39		
Methylene bromide	92	98	70 - 130	6	19		

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-388454

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-388454/3	Analysis Batch:	490-388454	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112116-03.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/21/2016 1038	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-388454/4	Analysis Batch:	490-388454	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112116-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/21/2016 1108	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	98	101	69 - 130	3	19		
4-Methyl-2-pentanone (MIBK)	93	94	48 - 150	0	41		
Methyl tert butyl ether	90	98	54 - 145	8	36		
m,p-Xylene	99	101	70 - 130	1	38		
Naphthalene	86	89	55 - 149	4	37		
n-Butylbenzene	99	92	57 - 150	7	39		
N-Propylbenzene	99	95	62 - 150	4	38		
o-Chlorotoluene	106	105	70 - 132	1	41		
o-Xylene	101	102	70 - 130	1	38		
p-Chlorotoluene	106	102	67 - 135	4	41		
p-Isopropyltoluene	102	99	66 - 147	3	38		
sec-Butylbenzene	99	100	68 - 147	1	38		
Styrene	104	104	70 - 131	0	40		
tert-Butylbenzene	109	107	70 - 138	2	38		
1,1,1,2-Tetrachloroethane	108	110	70 - 130	2	41		
1,1,2,2-Tetrachloroethane	89	90	61 - 134	2	16		
Tetrachloroethene	114	112	70 - 130	2	41		
Toluene	101	98	70 - 130	3	40		
trans-1,2-Dichloroethene	97	97	70 - 130	1	41		
trans-1,3-Dichloropropene	94	96	67 - 130	1	41		
1,2,3-Trichlorobenzene	102	103	57 - 146	1	42		
1,2,4-Trichlorobenzene	91	94	47 - 150	2	43		
1,1,1-Trichloroethane	107	108	70 - 130	1	41		
1,1,2-Trichloroethane	90	92	70 - 130	3	17		
Trichloroethene	103	102	70 - 130	1	41		
Trichlorofluoromethane	110	107	53 - 150	3	49		
1,2,3-Trichloropropane	96	97	60 - 139	1	16		
1,2,4-Trimethylbenzene	98	101	70 - 140	2	38		
1,3,5-Trimethylbenzene	106	105	69 - 141	1	38		
Vinyl acetate	149	140	10 - 150	7	50		
Vinyl chloride	97	95	63 - 150	2	46		
Xylenes (total)	100	101	70 - 130	1	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	84	84	70 - 130
Dibromofluoromethane (Surr)	96	98	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95	95	70 - 130
Toluene-d8 (Surr)	97	98	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Method Blank - Batch: 490-388744

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-388744/6	Analysis Batch:	490-388744	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	11221606.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/22/2016 1221	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	2.00	U	2.00	2.50
Benzene	0.0340	U	0.0340	0.100
Bromobenzene	0.0360	U	0.0360	0.100
Bromochloromethane	0.0280	U	0.0280	0.100
Bromodichloromethane	0.0280	U	0.0280	0.100
Bromoform	0.0280	U	0.0280	0.100
Bromomethane	0.0600	U	0.0600	0.100
2-Butanone (MEK)	0.260	U	0.260	2.50
Carbon disulfide	0.180	U	0.180	0.250
Carbon tetrachloride	0.0340	U	0.0340	0.100
Chlorobenzene	0.0340	U	0.0340	0.100
Chloroethane	0.0950	U	0.0950	0.250
Chloroform	0.0340	U	0.0340	0.100
Chloromethane	0.0340	U	0.0340	0.100
cis-1,2-Dichloroethene	0.0340	U	0.0340	0.100
cis-1,3-Dichloropropene	0.0340	U	0.0340	0.100
Dibromochloromethane	0.0170	U	0.0170	0.100
1,2-Dibromo-3-chloropropane	0.0350	U	0.0350	0.250
1,2-Dibromoethane	0.0500	U	0.0500	0.100
1,2-Dichlorobenzene	0.0170	U	0.0170	0.100
1,3-Dichlorobenzene	0.0340	U	0.0340	0.100
1,4-Dichlorobenzene	0.0470	U	0.0470	0.100
Dichlorodifluoromethane	0.0500	U	0.0500	0.100
1,1-Dichloroethane	0.0340	U	0.0340	0.100
1,2-Dichloroethane	0.0340	U	0.0340	0.100
1,1-Dichloroethene	0.0290	U	0.0290	0.100
1,2-Dichloropropane	0.0470	U	0.0470	0.100
1,3-Dichloropropane	0.0470	U	0.0470	0.100
2,2-Dichloropropane	0.0340	U	0.0340	0.100
1,1-Dichloropropene	0.0260	U	0.0260	0.100
Ethylbenzene	0.0340	U	0.0340	0.100
Hexachlorobutadiene	0.0550	U	0.0550	0.250
2-Hexanone	0.840	U	0.840	2.50
Iodomethane	0.340	U	0.340	1.00
Isopropylbenzene	0.0210	U	0.0210	0.100
Methylene bromide	0.0280	U	0.0280	0.100
Methylene Chloride	0.0500	U	0.0500	0.500
4-Methyl-2-pentanone (MIBK)	0.850	U	0.850	2.50
Methyl tert butyl ether	0.0500	U	0.0500	0.100
m,p-Xylene	0.0280	U	0.0280	0.150
Naphthalene	0.0850	U	0.0850	0.250
n-Butylbenzene	0.0500	U	0.0500	0.100
N-Propylbenzene	0.0340	U	0.0340	0.100
o-Chlorotoluene	0.0460	U	0.0460	0.100
o-Xylene	0.0340	U	0.0340	0.100

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Method Blank - Batch: 490-388744

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-388744/6	Analysis Batch:	490-388744	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	11221606.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/22/2016 1221	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.0420	U	0.0420	0.100
p-Isopropyltoluene	0.0340	U	0.0340	0.100
sec-Butylbenzene	0.0340	U	0.0340	0.100
Styrene	0.0550	U	0.0550	0.100
tert-Butylbenzene	0.0500	U	0.0500	0.100
1,1,1,2-Tetrachloroethane	0.0340	U	0.0340	0.100
1,1,2,2-Tetrachloroethane	0.0500	U	0.0500	0.100
Tetrachloroethene	0.0340	U	0.0340	0.100
Toluene	0.0370	U	0.0370	0.100
trans-1,2-Dichloroethene	0.0340	U	0.0340	0.100
trans-1,3-Dichloropropene	0.0340	U	0.0340	0.100
1,2,3-Trichlorobenzene	0.02022	J	0.0190	0.100
1,2,4-Trichlorobenzene	0.0340	U	0.0340	0.100
1,1,1-Trichloroethane	0.0460	U	0.0460	0.100
1,1,2-Trichloroethane	0.0700	U	0.0700	0.250
Trichloroethene	0.0500	U	0.0500	0.100
Trichlorofluoromethane	0.0500	U	0.0500	0.100
1,2,3-Trichloropropane	0.0280	U	0.0280	0.100
1,2,4-Trimethylbenzene	0.0500	U	0.0500	0.100
1,3,5-Trimethylbenzene	0.0380	U	0.0380	0.100
Vinyl acetate	0.220	U	0.220	1.00
Vinyl chloride	0.0550	U	0.0550	0.100
Xylenes (total)	0.0620	U	0.0620	0.150

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	98	70 - 130
Dibromofluoromethane (Surr)	98	70 - 130
1,2-Dichloroethane-d4 (Surr)	105	70 - 130
Toluene-d8 (Surr)	98	70 - 130

Method Blank TICs- Batch: 490-388744

Cas Number	Analyte	RT	Est. Result (mg	Qual
	Unknown	5.33	5.018	J

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-388744

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-388744/3	Analysis Batch:	490-388744	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	11221603.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/22/2016 1058	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-388744/4	Analysis Batch:	490-388744	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	11221604.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/22/2016 1126	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	106	106	45 - 145	0	38		
Benzene	103	103	70 - 130	0	37		
Bromobenzene	96	97	67 - 130	1	40		
Bromochloromethane	101	99	70 - 133	2	15		
Bromodichloromethane	101	100	70 - 130	1	20		
Bromoform	99	99	59 - 137	0	17		
Bromomethane	54	59	32 - 150	9	45		
2-Butanone (MEK)	98	100	50 - 149	2	39		
Carbon disulfide	98	98	66 - 138	1	41		
Carbon tetrachloride	100	101	70 - 131	1	41		
Chlorobenzene	103	101	70 - 130	2	40		
Chloroethane	44	45	37 - 150	3	50		
Chloroform	101	99	70 - 130	2	15		
Chloromethane	115	114	53 - 150	1	47		
cis-1,2-Dichloroethene	100	100	70 - 132	1	18		
cis-1,3-Dichloropropene	100	100	70 - 130	0	42		
Dibromochloromethane	101	98	70 - 130	3	14		
1,2-Dibromo-3-chloropropane	95	94	47 - 144	1	38		
1,2-Dibromoethane	100	99	69 - 130	2	17		
1,2-Dichlorobenzene	103	101	70 - 134	2	40		
1,3-Dichlorobenzene	103	100	69 - 137	3	41		
1,4-Dichlorobenzene	103	100	66 - 134	3	41		
Dichlorodifluoromethane	120	117	32 - 150	2	50		
1,1-Dichloroethane	101	100	70 - 130	0	42		
1,2-Dichloroethane	103	101	65 - 134	1	16		
1,1-Dichloroethene	95	97	70 - 131	2	43		
1,2-Dichloropropane	100	102	70 - 130	2	15		
1,3-Dichloropropane	101	100	70 - 130	1	15		
2,2-Dichloropropane	101	100	57 - 150	1	42		
1,1-Dichloropropene	100	100	70 - 130	1	41		
Ethylbenzene	104	102	70 - 130	1	38		
Hexachlorobutadiene	106	103	64 - 137	3	44		
2-Hexanone	99	101	47 - 148	2	38		
Isopropylbenzene	105	104	70 - 130	1	39		
Methylene bromide	101	100	70 - 130	1	19		

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-388744

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-388744/3	Analysis Batch:	490-388744	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	11221603.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/22/2016 1058	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-388744/4	Analysis Batch:	490-388744	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	11221604.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/22/2016 1126	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	101	103	69 - 130	2	19		
4-Methyl-2-pentanone (MIBK)	99	101	48 - 150	2	41		
Methyl tert butyl ether	103	102	54 - 145	1	36		
m,p-Xylene	103	101	70 - 130	2	38		
Naphthalene	103	101	55 - 149	2	37		
n-Butylbenzene	106	103	57 - 150	3	39		
N-Propylbenzene	97	97	62 - 150	0	38		
o-Chlorotoluene	100	99	70 - 132	1	41		
o-Xylene	103	103	70 - 130	0	38		
p-Chlorotoluene	100	97	67 - 135	3	41		
p-Isopropyltoluene	103	102	66 - 147	2	38		
sec-Butylbenzene	104	102	68 - 147	1	38		
Styrene	104	102	70 - 131	1	40		
tert-Butylbenzene	102	101	70 - 138	1	38		
1,1,1,2-Tetrachloroethane	101	100	70 - 130	0	41		
1,1,2,2-Tetrachloroethane	95	99	61 - 134	5	16		
Tetrachloroethene	100	98	70 - 130	2	41		
Toluene	103	102	70 - 130	1	40		
trans-1,2-Dichloroethene	101	99	70 - 130	2	41		
trans-1,3-Dichloropropene	102	102	67 - 130	1	41		
1,2,3-Trichlorobenzene	103	100	57 - 146	3	42		
1,2,4-Trichlorobenzene	104	98	47 - 150	6	43		
1,1,1-Trichloroethane	101	100	70 - 130	1	41		
1,1,2-Trichloroethane	100	99	70 - 130	1	17		
Trichloroethene	102	102	70 - 130	0	41		
Trichlorofluoromethane	94	92	53 - 150	2	49		
1,2,3-Trichloropropane	93	94	60 - 139	1	16		
1,2,4-Trimethylbenzene	102	101	70 - 140	1	38		
1,3,5-Trimethylbenzene	100	100	69 - 141	1	38		
Vinyl acetate	110	102	10 - 150	7	50		
Vinyl chloride	110	108	63 - 150	2	46		
Xylenes (total)	103	102	70 - 130	1	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	96	98	70 - 130
Dibromofluoromethane (Surr)	102	100	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102	102	70 - 130
Toluene-d8 (Surr)	99	98	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Method Blank - Batch: 490-388748

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-388748/6	Analysis Batch:	490-388748	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112216-06.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/22/2016 1231	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	0.00840	U	0.00840	0.0500
Benzene	0.000670	U	0.000670	0.00200
Bromobenzene	0.000720	U	0.000720	0.00200
Bromochloromethane	0.000550	U	0.000550	0.00200
Bromodichloromethane	0.000550	U	0.000550	0.00200
Bromoform	0.000550	U	0.000550	0.00200
Bromomethane	0.00120	U	0.00120	0.00200
2-Butanone (MEK)	0.00510	U	0.00510	0.0500
Carbon disulfide	0.00360	U	0.00360	0.00500
Carbon tetrachloride	0.000670	U	0.000670	0.00200
Chlorobenzene	0.000670	U	0.000670	0.00200
Chloroethane	0.00190	U	0.00190	0.00500
Chloroform	0.000670	U	0.000670	0.00200
Chloromethane	0.000670	U	0.000670	0.00200
cis-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
cis-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
Dibromochloromethane	0.000340	U	0.000340	0.00200
1,2-Dibromo-3-chloropropane	0.000700	U	0.000700	0.00500
1,2-Dibromoethane	0.00100	U	0.00100	0.00200
1,2-Dichlorobenzene	0.000340	U	0.000340	0.00200
1,3-Dichlorobenzene	0.000670	U	0.000670	0.00200
1,4-Dichlorobenzene	0.000670	U	0.000670	0.00200
Dichlorodifluoromethane	0.00100	U	0.00100	0.00200
1,1-Dichloroethane	0.000670	U	0.000670	0.00200
1,2-Dichloroethane	0.000670	U	0.000670	0.00200
1,1-Dichloroethene	0.000570	U	0.000570	0.00200
1,2-Dichloropropane	0.000940	U	0.000940	0.00200
1,3-Dichloropropane	0.000940	U	0.000940	0.00200
2,2-Dichloropropane	0.000670	U	0.000670	0.00200
1,1-Dichloropropene	0.000510	U	0.000510	0.00200
Ethylbenzene	0.000670	U	0.000670	0.00200
Hexachlorobutadiene	0.00114	U	0.00114	0.00500
2-Hexanone	0.0167	U	0.0167	0.0500
Iodomethane	0.00670	U	0.00670	0.0200
Isopropylbenzene	0.000410	U	0.000410	0.00200
Methylene bromide	0.000560	U	0.000560	0.00200
Methylene Chloride	0.000860	U	0.000860	0.0100
4-Methyl-2-pentanone (MIBK)	0.00190	U	0.00190	0.0500
Methyl tert butyl ether	0.000960	U	0.000960	0.00200
m,p-Xylene	0.000560	U	0.000560	0.00400
Naphthalene	0.00170	U	0.00170	0.00500
n-Butylbenzene	0.000980	U	0.000980	0.00200
N-Propylbenzene	0.000670	U	0.000670	0.00200
o-Chlorotoluene	0.000890	U	0.000890	0.00200
o-Xylene	0.000670	U	0.000670	0.00200

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Method Blank - Batch: 490-388748

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-388748/6	Analysis Batch:	490-388748	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112216-06.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/22/2016 1231	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.000840	U	0.000840	0.00200
p-Isopropyltoluene	0.000670	U	0.000670	0.00200
sec-Butylbenzene	0.000670	U	0.000670	0.00200
Styrene	0.00110	U	0.00110	0.00200
tert-Butylbenzene	0.000900	U	0.000900	0.00200
1,1,1,2-Tetrachloroethane	0.000670	U	0.000670	0.00200
1,1,2,2-Tetrachloroethane	0.00100	U	0.00100	0.00200
Tetrachloroethene	0.000730	U	0.000730	0.00200
Toluene	0.000740	U	0.000740	0.00200
trans-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
trans-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
1,2,3-Trichlorobenzene	0.000380	U	0.000380	0.00200
1,2,4-Trichlorobenzene	0.000670	U	0.000670	0.00200
1,1,1-Trichloroethane	0.000920	U	0.000920	0.00200
1,1,2-Trichloroethane	0.00140	U	0.00140	0.00500
Trichloroethene	0.000960	U	0.000960	0.00200
Trichlorofluoromethane	0.00100	U	0.00100	0.00200
1,2,3-Trichloropropane	0.000550	U	0.000550	0.00200
1,2,4-Trimethylbenzene	0.00100	U	0.00100	0.00200
1,3,5-Trimethylbenzene	0.000750	U	0.000750	0.00200
Vinyl acetate	0.00440	U	0.00440	0.0200
Vinyl chloride	0.00110	U	0.00110	0.00200
Xylenes (total)	0.00123	U	0.00123	0.00600

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	109	70 - 130
Dibromofluoromethane (Surr)	99	70 - 130
1,2-Dichloroethane-d4 (Surr)	96	70 - 130
Toluene-d8 (Surr)	98	70 - 130

Method Blank TICs- Batch: 490-388748

Cas Number	Analyte	RT	Est. Result (mg	Qual
	Tentatively Identified Compound		None	

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-388748

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-388748/3	Analysis Batch:	490-388748	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112216-03.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/22/2016 1058	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-388748/4	Analysis Batch:	490-388748	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112216-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/22/2016 1129	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	104	107	45 - 145	3	38		
Benzene	109	115	70 - 130	6	37		
Bromobenzene	104	108	67 - 130	5	40		
Bromochloromethane	105	112	70 - 133	6	15		
Bromodichloromethane	104	109	70 - 130	4	20		
Bromoform	112	114	59 - 137	2	17		
Bromomethane	91	100	32 - 150	10	45		
2-Butanone (MEK)	114	122	50 - 149	6	39		
Carbon disulfide	116	122	66 - 138	5	41		
Carbon tetrachloride	123	131	70 - 131	6	41		
Chlorobenzene	112	118	70 - 130	6	40		
Chloroethane	105	101	37 - 150	4	50		
Chloroform	103	110	70 - 130	7	15		
Chloromethane	92	102	53 - 150	11	47		
cis-1,2-Dichloroethene	109	116	70 - 132	6	18		
cis-1,3-Dichloropropene	101	107	70 - 130	5	42		
Dibromochloromethane	108	112	70 - 130	3	14		
1,2-Dibromo-3-chloropropane	108	122	47 - 144	12	38		
1,2-Dibromoethane	102	108	69 - 130	5	17		
1,2-Dichlorobenzene	113	125	70 - 134	10	40		
1,3-Dichlorobenzene	119	129	69 - 137	8	41		
1,4-Dichlorobenzene	118	130	66 - 134	9	41		
Dichlorodifluoromethane	119	129	32 - 150	8	50		
1,1-Dichloroethane	104	110	70 - 130	6	42		
1,2-Dichloroethane	96	103	65 - 134	7	16		
1,1-Dichloroethene	114	122	70 - 131	7	43		
1,2-Dichloropropane	97	103	70 - 130	6	15		
1,3-Dichloropropane	98	101	70 - 130	3	15		
2,2-Dichloropropane	123	130	57 - 150	6	42		
1,1-Dichloropropene	107	116	70 - 130	8	41		
Ethylbenzene	112	120	70 - 130	7	38		
Hexachlorobutadiene	105	118	64 - 137	12	44		
2-Hexanone	108	117	47 - 148	7	38		
Isopropylbenzene	114	115	70 - 130	1	39		
Methylene bromide	100	106	70 - 130	6	19		

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-388748

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-388748/3	Analysis Batch:	490-388748	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112216-03.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/22/2016 1058	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-388748/4	Analysis Batch:	490-388748	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112216-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/22/2016 1129	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	103	110	69 - 130	6	19		
4-Methyl-2-pentanone (MIBK)	102	108	48 - 150	6	41		
Methyl tert butyl ether	100	105	54 - 145	5	36		
m,p-Xylene	111	118	70 - 130	6	38		
Naphthalene	97	108	55 - 149	11	37		
n-Butylbenzene	110	119	57 - 150	9	39		
N-Propylbenzene	115	124	62 - 150	7	38		
o-Chlorotoluene	116	111	70 - 132	5	41		
o-Xylene	111	114	70 - 130	3	38		
p-Chlorotoluene	112	121	67 - 135	8	41		
p-Isopropyltoluene	116	127	66 - 147	10	38		
sec-Butylbenzene	112	126	68 - 147	12	38		
Styrene	112	118	70 - 131	5	40		
tert-Butylbenzene	123	136	70 - 138	10	38		
1,1,1,2-Tetrachloroethane	113	120	70 - 130	6	41		
1,1,2,2-Tetrachloroethane	97	103	61 - 134	6	16		
Tetrachloroethene	125	131	70 - 130	4	41		*
Toluene	108	115	70 - 130	6	40		
trans-1,2-Dichloroethene	104	112	70 - 130	7	41		
trans-1,3-Dichloropropene	101	109	67 - 130	7	41		
1,2,3-Trichlorobenzene	107	116	57 - 146	8	42		
1,2,4-Trichlorobenzene	100	111	47 - 150	10	43		
1,1,1-Trichloroethane	116	124	70 - 130	7	41		
1,1,2-Trichloroethane	94	97	70 - 130	3	17		
Trichloroethene	112	120	70 - 130	7	41		
Trichlorofluoromethane	123	130	53 - 150	5	49		
1,2,3-Trichloropropane	103	113	60 - 139	9	16		
1,2,4-Trimethylbenzene	112	124	70 - 140	10	38		
1,3,5-Trimethylbenzene	114	131	69 - 141	14	38		
Vinyl acetate	161	152	10 - 150	6	50	*	*
Vinyl chloride	108	114	63 - 150	5	46		
Xylenes (total)	111	116	70 - 130	4	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	90	88	70 - 130
Dibromofluoromethane (Surr)	95	96	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97	97	70 - 130
Toluene-d8 (Surr)	97	96	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-388763

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116078-8	Analysis Batch:	490-388748	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-388763	Lab File ID:	112216-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.05 g
Analysis Date:	11/22/2016 1301			Final Weight/Volume:	5.0 mL
Prep Date:	11/22/2016 1145				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116078-8	Analysis Batch:	490-388748	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-388763	Lab File ID:	112216-08.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.30 g
Analysis Date:	11/22/2016 1332			Final Weight/Volume:	5.0 mL
Prep Date:	11/22/2016 1145				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	-65	-63	10 - 150	5	50	*	*
Benzene	91	86	21 - 150	10	50		
Bromobenzene	88	81	10 - 150	12	50		*
Bromochloromethane	90	84	10 - 150	12	50		
Bromodichloromethane	88	80	10 - 150	13	50		
Bromoform	79	74	10 - 150	11	50		
Bromomethane	93	94	10 - 150	3	50		
2-Butanone (MEK)	80	80	10 - 150	4	50		
Carbon disulfide	93	92	10 - 150	7	50		
Carbon tetrachloride	115	119	10 - 150	2	50		
Chlorobenzene	75	64	10 - 150	20	50		
Chloroethane	101	101	10 - 150	4	50		
Chloroform	98	98	10 - 150	5	50		
Chloromethane	92	88	10 - 150	9	50		
cis-1,2-Dichloroethene	91	85	10 - 150	12	50		
cis-1,3-Dichloropropene	84	83	10 - 150	6	50		
Dibromochloromethane	93	93	10 - 150	6	50		
1,2-Dibromo-3-chloropropane	74	76	10 - 150	3	50		*
1,2-Dibromoethane	77	75	10 - 150	8	50		
1,2-Dichlorobenzene	65	55	10 - 150	21	50		*
1,3-Dichlorobenzene	72	61	10 - 150	21	50		*
1,4-Dichlorobenzene	68	54	10 - 150	27	50		*
Dichlorodifluoromethane	123	124	10 - 150	4	50		
1,1-Dichloroethane	98	99	10 - 150	5	50		
1,2-Dichloroethane	85	80	24 - 138	11	50		
1,1-Dichloroethene	107	109	10 - 150	3	50		
1,2-Dichloropropane	87	83	10 - 150	9	50		
1,3-Dichloropropane	84	85	10 - 150	3	50		
2,2-Dichloropropane	120	122	10 - 150	3	50		
1,1-Dichloropropene	94	92	10 - 150	7	50		
Ethylbenzene	91	88	10 - 150	8	50		
Hexachlorobutadiene	47	59	10 - 150	16	50		*

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-388763

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116078-8	Analysis Batch:	490-388748	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-388763	Lab File ID:	112216-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.05 g
Analysis Date:	11/22/2016 1301			Final Weight/Volume:	5.0 mL
Prep Date:	11/22/2016 1145				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116078-8	Analysis Batch:	490-388748	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-388763	Lab File ID:	112216-08.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.30 g
Analysis Date:	11/22/2016 1332			Final Weight/Volume:	5.0 mL
Prep Date:	11/22/2016 1145				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2-Hexanone	82	81	10 - 150	6	50		
Isopropylbenzene	88	88	10 - 150	5	50		
Methylene bromide	75	68	10 - 150	14	50		
Methylene Chloride	221	299	24 - 150	25	50	*	*
4-Methyl-2-pentanone (MIBK)	97	102	10 - 150	0	50		
Methyl tert butyl ether	105	106	10 - 150	3	50		
m,p-Xylene	84	78	10 - 150	12	50		
Naphthalene	13	10	10 - 150	34	50		J *
n-Butylbenzene	66	75	10 - 150	8	50		*
N-Propylbenzene	120	127	10 - 150	1	50		*
o-Chlorotoluene	112	106	10 - 150	10	50		*
o-Xylene	81	74	10 - 150	13	50		
p-Chlorotoluene	93	82	10 - 150	18	50		*
p-Isopropyltoluene	93	107	10 - 150	9	50		*
sec-Butylbenzene	101	119	10 - 150	11	50		*
Styrene	34	23	10 - 150	41	50		
tert-Butylbenzene	126	141	10 - 150	6	50		*
1,1,1,2-Tetrachloroethane	105	106	10 - 150	4	50		
1,1,2,2-Tetrachloroethane	113	129	10 - 150	9	50		*
Tetrachloroethene	113	123	10 - 150	4	50		
Toluene	116	129	17 - 150	5	50		
trans-1,2-Dichloroethene	89	86	10 - 150	8	50		
trans-1,3-Dichloropropene	71	66	10 - 150	12	50		
1,2,3-Trichlorobenzene	21	16	10 - 150	31	50		*
1,2,4-Trichlorobenzene	22	17	10 - 150	27	50		*
1,1,1-Trichloroethane	111	112	10 - 150	4	50		
1,1,2-Trichloroethane	88	89	10 - 150	3	50		
Trichloroethene	90	86	10 - 150	9	50		
Trichlorofluoromethane	123	129	10 - 150	0	50		
1,2,3-Trichloropropane	117	124	10 - 150	1	50		*
1,2,4-Trimethylbenzene	97	94	10 - 150	8	50		*
1,3,5-Trimethylbenzene	121	118	10 - 150	7	50		*

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-388763

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116078-8	Analysis Batch:	490-388748	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-388763	Lab File ID:	112216-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.05 g
Analysis Date:	11/22/2016 1301			Final Weight/Volume:	5.0 mL
Prep Date:	11/22/2016 1145				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116078-8	Analysis Batch:	490-388748	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-388763	Lab File ID:	112216-08.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.30 g
Analysis Date:	11/22/2016 1332			Final Weight/Volume:	5.0 mL
Prep Date:	11/22/2016 1145				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Vinyl acetate	155	139	10 - 150	16	50	*	
Vinyl chloride	100	100	10 - 150	5	50		
Xylenes (total)	83	76	10 - 150	13	50		

Surrogate	MS % Rec	MSD % Rec		Acceptance Limits
4-Bromofluorobenzene (Surr)	117	130	*	70 - 130
Dibromofluoromethane (Surr)	105	108		70 - 130
1,2-Dichloroethane-d4 (Surr)	106	106		70 - 130
Toluene-d8 (Surr)	111	119		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Method Blank - Batch: 490-389170

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-389170/6	Analysis Batch:	490-389170	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112316-06.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/23/2016 1407	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	2.00	U	2.00	2.50
Benzene	0.0340	U	0.0340	0.100
Bromobenzene	0.0360	U	0.0360	0.100
Bromochloromethane	0.0280	U	0.0280	0.100
Bromodichloromethane	0.0280	U	0.0280	0.100
Bromoform	0.0280	U	0.0280	0.100
Bromomethane	0.0600	U	0.0600	0.100
2-Butanone (MEK)	0.260	U	0.260	2.50
Carbon disulfide	0.180	U	0.180	0.250
Carbon tetrachloride	0.0340	U	0.0340	0.100
Chlorobenzene	0.0340	U	0.0340	0.100
Chloroethane	0.0950	U	0.0950	0.250
Chloroform	0.0340	U	0.0340	0.100
Chloromethane	0.0340	U	0.0340	0.100
cis-1,2-Dichloroethene	0.0340	U	0.0340	0.100
cis-1,3-Dichloropropene	0.0340	U	0.0340	0.100
Dibromochloromethane	0.0170	U	0.0170	0.100
1,2-Dibromo-3-chloropropane	0.0350	U	0.0350	0.250
1,2-Dibromoethane	0.0500	U	0.0500	0.100
1,2-Dichlorobenzene	0.0170	U	0.0170	0.100
1,3-Dichlorobenzene	0.0340	U	0.0340	0.100
1,4-Dichlorobenzene	0.0470	U	0.0470	0.100
Dichlorodifluoromethane	0.0500	U	0.0500	0.100
1,1-Dichloroethane	0.0340	U	0.0340	0.100
1,2-Dichloroethane	0.0340	U	0.0340	0.100
1,1-Dichloroethene	0.0290	U	0.0290	0.100
1,2-Dichloropropane	0.0470	U	0.0470	0.100
1,3-Dichloropropane	0.0470	U	0.0470	0.100
2,2-Dichloropropane	0.0340	U	0.0340	0.100
1,1-Dichloropropene	0.0260	U	0.0260	0.100
Ethylbenzene	0.0340	U	0.0340	0.100
Hexachlorobutadiene	0.0550	U	0.0550	0.250
2-Hexanone	0.840	U	0.840	2.50
Iodomethane	0.340	U	0.340	1.00
Isopropylbenzene	0.0210	U	0.0210	0.100
Methylene bromide	0.0280	U	0.0280	0.100
Methylene Chloride	0.0500	U	0.0500	0.500
4-Methyl-2-pentanone (MIBK)	0.850	U	0.850	2.50
Methyl tert butyl ether	0.0500	U	0.0500	0.100
m,p-Xylene	0.0280	U	0.0280	0.150
Naphthalene	0.08985	J	0.0850	0.250
n-Butylbenzene	0.0500	U	0.0500	0.100
N-Propylbenzene	0.0340	U	0.0340	0.100
o-Chlorotoluene	0.0460	U	0.0460	0.100
o-Xylene	0.0340	U	0.0340	0.100

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Method Blank - Batch: 490-389170

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-389170/6	Analysis Batch:	490-389170	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112316-06.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/23/2016 1407	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.0420	U	0.0420	0.100
p-Isopropyltoluene	0.0340	U	0.0340	0.100
sec-Butylbenzene	0.0340	U	0.0340	0.100
Styrene	0.0550	U	0.0550	0.100
tert-Butylbenzene	0.0500	U	0.0500	0.100
1,1,1,2-Tetrachloroethane	0.0340	U	0.0340	0.100
1,1,2,2-Tetrachloroethane	0.0500	U	0.0500	0.100
Tetrachloroethene	0.0340	U	0.0340	0.100
Toluene	0.0370	U	0.0370	0.100
trans-1,2-Dichloroethene	0.0340	U	0.0340	0.100
trans-1,3-Dichloropropene	0.0340	U	0.0340	0.100
1,2,3-Trichlorobenzene	0.05458	J	0.0190	0.100
1,2,4-Trichlorobenzene	0.05126	J	0.0340	0.100
1,1,1-Trichloroethane	0.0460	U	0.0460	0.100
1,1,2-Trichloroethane	0.0700	U	0.0700	0.250
Trichloroethene	0.0500	U	0.0500	0.100
Trichlorofluoromethane	0.0500	U	0.0500	0.100
1,2,3-Trichloropropane	0.0280	U	0.0280	0.100
1,2,4-Trimethylbenzene	0.0500	U	0.0500	0.100
1,3,5-Trimethylbenzene	0.0380	U	0.0380	0.100
Vinyl acetate	0.220	U	0.220	1.00
Vinyl chloride	0.0550	U	0.0550	0.100
Xylenes (total)	0.0620	U	0.0620	0.150

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
Dibromofluoromethane (Surr)	91	70 - 130
1,2-Dichloroethane-d4 (Surr)	92	70 - 130
Toluene-d8 (Surr)	95	70 - 130

Method Blank TICs- Batch: 490-389170

Cas Number	Analyte	RT	Est. Result (mg	Qual
13036-83-4	1,3,5-Triazine, 1,3,5-tributylhexahydro-	1.29	1.839	J N
91-57-6	2-Methylnaphthalene	12.59	0.1836	J
556-67-2	Cyclotetrasiloxane, octamethyl-	8.10	0.6035	J N
541-05-9	Cyclotrisiloxane, hexamethyl-	6.02	0.4331	J N
85417-00-1	Divinyldithiophosphinic acid	2.09	0.9640	J N
75-68-3	Ethane, 1-chloro-1,1-difluoro-	3.00	1.427	J N
7446-09-5	Sulfur dioxide	1.68	0.4193	J N

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-389170

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-389170/3	Analysis Batch:	490-389170	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112316-03.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/23/2016 1236	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-389170/4	Analysis Batch:	490-389170	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112316-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/23/2016 1307	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	107	101	45 - 145	6	38		
Benzene	114	112	70 - 130	2	37		
Bromobenzene	110	109	67 - 130	1	40		
Bromochloromethane	97	91	70 - 133	6	15		
Bromodichloromethane	107	105	70 - 130	2	20		
Bromoform	108	108	59 - 137	0	17		
Bromomethane	77	74	32 - 150	4	45		
2-Butanone (MEK)	115	114	50 - 149	1	39		
Carbon disulfide	110	107	66 - 138	3	41		
Carbon tetrachloride	128	124	70 - 131	3	41		
Chlorobenzene	118	117	70 - 130	1	40		
Chloroethane	51	74	37 - 150	36	50		
Chloroform	108	105	70 - 130	3	15		
Chloromethane	112	106	53 - 150	5	47		
cis-1,2-Dichloroethene	115	111	70 - 132	3	18		
cis-1,3-Dichloropropene	100	101	70 - 130	1	42		
Dibromochloromethane	105	106	70 - 130	0	14		
1,2-Dibromo-3-chloropropane	119	115	47 - 144	4	38		
1,2-Dibromoethane	100	100	69 - 130	0	17		
1,2-Dichlorobenzene	120	116	70 - 134	3	40		
1,3-Dichlorobenzene	128	125	69 - 137	2	41		
1,4-Dichlorobenzene	124	122	66 - 134	2	41		
Dichlorodifluoromethane	138	134	32 - 150	3	50		
1,1-Dichloroethane	109	105	70 - 130	4	42		
1,2-Dichloroethane	98	97	65 - 134	1	16		
1,1-Dichloroethene	125	123	70 - 131	2	43		
1,2-Dichloropropane	102	98	70 - 130	4	15		
1,3-Dichloropropane	95	95	70 - 130	1	15		
2,2-Dichloropropane	132	127	57 - 150	4	42		
1,1-Dichloropropene	117	113	70 - 130	3	41		
Ethylbenzene	123	122	70 - 130	1	38		
Hexachlorobutadiene	119	119	64 - 137	0	44		
2-Hexanone	110	112	47 - 148	2	38		
Isopropylbenzene	126	128	70 - 130	1	39		
Methylene bromide	97	98	70 - 130	0	19		

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-389170

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-389170/3	Analysis Batch:	490-389170	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112316-03.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/23/2016 1236	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-389170/4	Analysis Batch:	490-389170	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112316-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/23/2016 1307	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	113	111	69 - 130	2	19		
4-Methyl-2-pentanone (MIBK)	104	106	48 - 150	1	41		
Methyl tert butyl ether	107	106	54 - 145	2	36		
m,p-Xylene	123	120	70 - 130	2	38		
Naphthalene	121	120	55 - 149	1	37		
n-Butylbenzene	131	125	57 - 150	5	39		
N-Propylbenzene	132	131	62 - 150	1	38		
o-Chlorotoluene	128	128	70 - 132	0	41		
o-Xylene	120	120	70 - 130	0	38		
p-Chlorotoluene	127	122	67 - 135	4	41		
p-Isopropyltoluene	134	129	66 - 147	4	38		
sec-Butylbenzene	133	127	68 - 147	4	38		
Styrene	122	122	70 - 131	0	40		
tert-Butylbenzene	148	144	70 - 138	3	38	*	*
1,1,1,2-Tetrachloroethane	118	115	70 - 130	2	41		
1,1,2,2-Tetrachloroethane	99	101	61 - 134	2	16		
Tetrachloroethene	127	124	70 - 130	2	41		
Toluene	113	113	70 - 130	0	40		
trans-1,2-Dichloroethene	110	109	70 - 130	1	41		
trans-1,3-Dichloropropene	101	103	67 - 130	1	41		
1,2,3-Trichlorobenzene	121	118	57 - 146	2	42		
1,2,4-Trichlorobenzene	126	119	47 - 150	6	43		
1,1,1-Trichloroethane	123	121	70 - 130	2	41		
1,1,2-Trichloroethane	90	94	70 - 130	5	17		
Trichloroethene	118	118	70 - 130	0	41		
Trichlorofluoromethane	134	117	53 - 150	13	49		
1,2,3-Trichloropropane	101	102	60 - 139	1	16		
1,2,4-Trimethylbenzene	129	125	70 - 140	3	38		
1,3,5-Trimethylbenzene	134	130	69 - 141	3	38		
Vinyl acetate	133	122	10 - 150	8	50		
Vinyl chloride	120	116	63 - 150	3	46		
Xylenes (total)	121	120	70 - 130	1	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	93	95	70 - 130
Dibromofluoromethane (Surr)	93	93	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94	95	70 - 130
Toluene-d8 (Surr)	93	96	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Method Blank - Batch: 490-387989

Method: 8270D
Preparation: 3550C

Lab Sample ID:	MB 490-387989/1-A	Analysis Batch:	490-388250	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-387989	Lab File ID:	111916-014.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	11/19/2016 1813	Units:	mg/Kg	Final Weight/Volume:	1 mL
Prep Date:	11/18/2016 1300			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	0.0320	U	0.0320	0.0670
Acenaphthylene	0.0290	U	0.0290	0.0670
Aniline	0.253	U	0.253	0.670
Anthracene	0.0290	U	0.0290	0.0670
Benzidine	0.204	U	0.204	0.333
Benzo(a)anthracene	0.0300	U	0.0300	0.0670
Benzo(a)pyrene	0.0270	U	0.0270	0.0670
Benzo(b)fluoranthene	0.0280	U	0.0280	0.0670
Benzo(g,h,i)perylene	0.0330	U	0.0330	0.0670
Benzoic acid	0.0600	U	0.0600	0.333
Benzo(k)fluoranthene	0.0270	U	0.0270	0.0670
Benzyl alcohol	0.194	U	0.194	0.333
Bis(2-chloroethoxy)methane	0.200	U	0.200	0.333
Bis(2-chloroethyl)ether	0.213	U	0.213	0.333
bis (2-chloroisopropyl) ether	0.198	U	0.198	0.333
Bis(2-ethylhexyl)phthalate	0.207	U	0.207	0.333
4-Bromophenyl phenyl ether	0.205	U	0.205	0.333
Butyl benzyl phthalate	0.215	U	0.215	0.333
Carbazole	0.207	U	0.207	0.333
4-Chloroaniline	0.227	U	0.227	0.333
4-Chloro-3-methylphenol	0.168	U	0.168	0.333
2-Chloronaphthalene	0.209	U	0.209	0.333
2-Chlorophenol	0.191	U	0.191	0.333
4-Chlorophenyl phenyl ether	0.201	U	0.201	0.333
Chrysene	0.0370	U	0.0370	0.0670
Dibenzo(a,h)anthracene	0.0320	U	0.0320	0.0670
Dibenzofuran	0.210	U	0.210	0.333
1,2-Dichlorobenzene	0.190	U	0.190	0.333
1,3-Dichlorobenzene	0.190	U	0.190	0.333
1,4-Dichlorobenzene	0.196	U	0.196	0.333
3,3'-Dichlorobenzidine	0.204	U	0.204	0.670
2,4-Dichlorophenol	0.175	U	0.175	0.333
Diethyl phthalate	0.212	U	0.212	0.333
2,4-Dimethylphenol	0.335	U	0.335	0.670
Dimethyl phthalate	0.207	U	0.207	0.333
Di-n-butyl phthalate	0.211	U	0.211	0.333
4,6-Dinitro-o-cresol	0.229	U	0.229	0.333
2,4-Dinitrophenol	0.251	U	0.251	0.333
2,4-Dinitrotoluene	0.208	U	0.208	0.333
2,6-Dinitrotoluene	0.223	U	0.223	0.333
Di-n-octyl phthalate	0.178	U	0.178	0.333
1,2-Diphenylhydrazine (as Azobenzene)	0.234	U	0.234	0.333
Fluoranthene	0.0340	U	0.0340	0.0670
Fluorene	0.0290	U	0.0290	0.0670
Hexachlorobenzene	0.250	U	0.250	0.333

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Method Blank - Batch: 490-387989

Method: 8270D
Preparation: 3550C

Lab Sample ID:	MB 490-387989/1-A	Analysis Batch:	490-388250	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-387989	Lab File ID:	111916-014.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	11/19/2016 1813	Units:	mg/Kg	Final Weight/Volume:	1 mL
Prep Date:	11/18/2016 1300			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Hexachlorobutadiene	0.167	U	0.167	0.333
Hexachlorocyclopentadiene	0.150	U	0.150	0.333
Hexachloroethane	0.181	U	0.181	0.333
Ideno(1,2,3-cd)pyrene	0.0290	U	0.0290	0.0670
Isophorone	0.188	U	0.188	0.333
1-Methylnaphthalene	0.0280	U	0.0280	0.0670
2-Methylnaphthalene	0.0260	U	0.0260	0.0670
Naphthalene	0.0290	U	0.0290	0.0670
2-Nitroaniline	0.207	U	0.207	0.333
3-Nitroaniline	0.230	U	0.230	0.670
4-Nitroaniline	0.238	U	0.238	0.670
Nitrobenzene	0.201	U	0.201	0.333
2-Nitrophenol	0.243	U	0.243	0.333
4-Nitrophenol	0.382	U	0.382	0.670
N-Nitrosodimethylamine	0.0200	U	0.0200	0.333
N-Nitrosodi-n-propylamine	0.194	U	0.194	0.333
N-Nitrosodiphenylamine	0.0530	U	0.0530	0.333
Pentachlorophenol	0.266	U	0.266	0.670
Phenanthrene	0.0340	U	0.0340	0.0670
Phenol	0.203	U	0.203	0.333
Pyrene	0.0340	U	0.0340	0.0670
Pyridine	0.199	U	0.199	0.670
1,2,4-Trichlorobenzene	0.181	U	0.181	0.333
2,4,5-Trichlorophenol	0.218	U	0.218	0.333
2,4,6-Trichlorophenol	0.192	U	0.192	0.333

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	72	29 - 120
2-Fluorophenol (Surr)	66	10 - 120
Nitrobenzene-d5 (Surr)	64	27 - 120
Phenol-d5 (Surr)	73	10 - 120
Terphenyl-d14 (Surr)	85	13 - 120
2,4,6-Tribromophenol (Surr)	84	10 - 120

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-387989

Method: 8270D
Preparation: 3550C

LCS Lab Sample ID:	LCS 490-387989/2-A	Analysis Batch:	490-388250	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-387989	Lab File ID:	111916-015.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	11/19/2016 1832	Units:	mg/Kg	Final Weight/Volume:	1 mL
Prep Date:	11/18/2016 1300			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-387989/3-A	Analysis Batch:	490-388250	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-387989	Lab File ID:	111916-016.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	11/19/2016 1850	Units:	mg/Kg	Final Weight/Volume:	1 mL
Prep Date:	11/18/2016 1300			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acenaphthene	83	76	36 - 120	10	50		
Acenaphthylene	83	75	38 - 120	10	50		
Aniline	75	70	10 - 150	8	50		
Anthracene	86	78	46 - 124	9	49		
Benzidine	13	13	10 - 150	0	50	J	J
Benzo(a)anthracene	87	78	45 - 120	10	50		
Benzo(a)pyrene	86	81	45 - 120	6	50		
Benzo(b)fluoranthene	84	84	42 - 120	0	50		
Benzo(g,h,i)perylene	95	85	38 - 120	11	50		
Benzoic acid	68	63	10 - 150	7	50		
Benzo(k)fluoranthene	84	82	42 - 120	2	45		
Benzyl alcohol	79	73	43 - 131	8	50		
Bis(2-chloroethoxy)methane	71	67	32 - 120	6	50		
Bis(2-chloroethyl)ether	74	68	31 - 120	8	50		
bis (2-chloroisopropyl) ether	60	61	32 - 120	1	50		
Bis(2-ethylhexyl)phthalate	106	98	43 - 120	8	50		
4-Bromophenyl phenyl ether	78	70	40 - 120	10	37		
Butyl benzyl phthalate	103	96	43 - 133	8	50		
Carbazole	89	81	44 - 120	9	46		
4-Chloroaniline	81	74	35 - 120	10	50		
4-Chloro-3-methylphenol	86	67	38 - 120	24	49		
2-Chloronaphthalene	79	66	34 - 120	18	50		
2-Chlorophenol	73	72	32 - 120	1	50		
4-Chlorophenyl phenyl ether	74	71	42 - 120	5	50		
Chrysene	86	77	43 - 120	11	49		
Dibenzo(a,h)anthracene	92	84	32 - 128	9	50		
Dibenzofuran	78	71	41 - 120	9	50		
1,2-Dichlorobenzene	76	69	33 - 120	9	50		
1,3-Dichlorobenzene	75	66	32 - 120	12	50		
1,4-Dichlorobenzene	77	67	32 - 120	13	50		
3,3'-Dichlorobenzidine	81	73	39 - 120	11	50		
2,4-Dichlorophenol	84	72	32 - 120	15	50		
Diethyl phthalate	85	82	41 - 122	5	45		
2,4-Dimethylphenol	79	67	32 - 120	17	50		
Dimethyl phthalate	84	76	55 - 120	10	46		

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-387989

Method: 8270D
Preparation: 3550C

LCS Lab Sample ID:	LCS 490-387989/2-A	Analysis Batch:	490-388250	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-387989	Lab File ID:	111916-015.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	11/19/2016 1832	Units:	mg/Kg	Final Weight/Volume:	1 mL
Prep Date:	11/18/2016 1300			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-387989/3-A	Analysis Batch:	490-388250	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-387989	Lab File ID:	111916-016.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	11/19/2016 1850	Units:	mg/Kg	Final Weight/Volume:	1 mL
Prep Date:	11/18/2016 1300			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Di-n-butyl phthalate	98	89	46 - 127	9	49		
4,6-Dinitro-o-cresol	75	70	27 - 134	7	50		
2,4-Dinitrophenol	67	65	10 - 142	4	50		
2,4-Dinitrotoluene	93	87	43 - 120	6	50		
2,6-Dinitrotoluene	90	78	43 - 120	14	50		
Di-n-octyl phthalate	103	101	40 - 130	2	50		
1,2-Diphenylhydrazine (as Azobenzene)	83	78	10 - 150	5	50		
Fluoranthene	90	81	46 - 120	10	50		
Fluorene	80	75	42 - 120	6	50		
Hexachlorobenzene	82	75	44 - 120	8	50		
Hexachlorobutadiene	71	66	31 - 120	8	50		
Hexachlorocyclopentadiene	59	48	24 - 120	21	50		
Hexachloroethane	79	70	33 - 120	12	50		
Ideno(1,2,3-cd)pyrene	92	82	41 - 121	11	50		
Isophorone	74	63	33 - 120	16	50		
1-Methylnaphthalene	81	65	32 - 120	22	50		
2-Methylnaphthalene	77	65	28 - 120	17	50		
Naphthalene	80	71	32 - 120	12	50		
2-Nitroaniline	86	75	40 - 120	13	50		
3-Nitroaniline	86	82	42 - 120	6	49		
4-Nitroaniline	89	82	43 - 120	8	49		
Nitrobenzene	67	73	26 - 120	8	50		
2-Nitrophenol	89	74	29 - 120	18	50		
4-Nitrophenol	93	85	32 - 136	9	45		
N-Nitrosodimethylamine	71	63	10 - 150	12	50		
N-Nitrosodi-n-propylamine	73	74	35 - 120	2	50		
N-Nitrosodiphenylamine	101	93	52 - 140	8	50		
Pentachlorophenol	77	68	44 - 134	12	50		
Phenanthrene	84	77	45 - 120	9	50		
Phenol	76	73	30 - 120	4	50		
Pyrene	86	80	43 - 120	7	50		
Pyridine	76	69	20 - 120	9	50		
1,2,4-Trichlorobenzene	75	66	29 - 120	13	50		
2,4,5-Trichlorophenol	86	71	39 - 120	19	50		
2,4,6-Trichlorophenol	82	68	39 - 120	19	50		

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	77	64	29 - 120
2-Fluorophenol (Surr)	78	68	10 - 120
Nitrobenzene-d5 (Surr)	66	72	27 - 120
Phenol-d5 (Surr)	78	73	10 - 120
Terphenyl-d14 (Surr)	87	82	13 - 120
2,4,6-Tribromophenol (Surr)	90	84	10 - 120

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Method Blank - Batch: 490-388600

Method: 6010C
Preparation: 3051A

Lab Sample ID:	MB 490-388600/1-A	Analysis Batch:	490-388752	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-388600	Lab File ID:	TALS_112116-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.498 g
Analysis Date:	11/21/2016 1853	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/21/2016 1437				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	10.0	U	10.0	20.1
Antimony	1.00	U	1.00	10.0
Arsenic	1.20	U	1.20	2.01
Barium	1.00	U	1.00	2.01
Beryllium	0.201	U	0.201	1.00
Cadmium	0.100	U	0.100	1.00
Calcium	100	U	100	201
Chromium	0.904	U	0.904	1.00
Cobalt	1.00	U	1.00	2.01
Copper	1.10	U	1.10	2.01
Iron	20.1	U	20.1	40.2
Lead	0.502	U	0.502	1.00
Magnesium	100	U	100	201
Manganese	1.00	U	1.00	3.01
Nickel	0.602	U	0.602	2.01
Potassium	100	U	100	201
Selenium	1.10	U	1.10	2.01
Silver	0.402	U	0.402	1.00
Sodium	131	U	131	201
Thallium	0.602	U	0.602	2.01
Vanadium	2.01	U	2.01	10.0
Zinc	5.02	U	5.02	10.0

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Lab Control Sample - Batch: 490-388600

Method: 6010C
Preparation: 3051A

Lab Sample ID:	LCS 490-388600/2-A	Analysis Batch:	490-388752	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-388600	Lab File ID:	TALS_112116-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.502 g
Analysis Date:	11/21/2016 1858	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/21/2016 1437				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	797	814.1	102	80 - 120	
Antimony	39.8	43.75	110	80 - 120	
Arsenic	19.9	19.40	97	80 - 120	
Barium	797	830.7	104	80 - 120	
Beryllium	19.9	21.12	106	80 - 120	
Cadmium	19.9	21.27	107	80 - 120	
Calcium	1990	2127	107	80 - 120	
Chromium	79.7	89.22	112	80 - 120	
Cobalt	199	212.4	107	80 - 120	
Copper	99.6	102.5	103	80 - 120	
Iron	398	436.9	110	80 - 120	
Lead	19.9	20.66	104	80 - 120	
Magnesium	1990	2092	105	80 - 120	
Manganese	199	223.1	112	80 - 120	
Nickel	199	214.5	108	80 - 120	
Potassium	1990	2032	102	80 - 120	
Selenium	19.9	19.30	97	80 - 120	
Silver	19.9	21.43	108	80 - 120	
Sodium	1990	2040	102	80 - 120	
Thallium	120	110.2	92	80 - 120	
Vanadium	199	211.0	106	80 - 120	
Zinc	199	198.6	100	80 - 120	

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Method Blank - Batch: 490-389507

Method: 7471B
Preparation: 7471B

Lab Sample ID:	MB 490-389507/1-A	Analysis Batch:	490-389646	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-389507	Lab File ID:	112516-5aLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.625 g
Analysis Date:	11/25/2016 1154	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/25/2016 0742				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0288	U	0.0288	0.0960

Lab Control Sample - Batch: 490-389507

Method: 7471B
Preparation: 7471B

Lab Sample ID:	LCS 490-389507/2-A	Analysis Batch:	490-389646	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-389507	Lab File ID:	112516-5aLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.618 g
Analysis Date:	11/25/2016 1157	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/25/2016 0742				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.162	0.1497	93	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-389507

Method: 7471B
Preparation: 7471B

MS Lab Sample ID:	490-116078-1	Analysis Batch:	490-389646	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-389507	Lab File ID:	112516-5aLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.624 g
Analysis Date:	11/25/2016 1208			Final Weight/Volume:	100 mL
Prep Date:	11/25/2016 0742				
Leach Date:	N/A				

MSD Lab Sample ID:	490-116078-1	Analysis Batch:	490-389646	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-389507	Lab File ID:	112516-5aLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.595 g
Analysis Date:	11/25/2016 1211			Final Weight/Volume:	100 mL
Prep Date:	11/25/2016 0742				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	104	104	80 - 120	5	20		

Client: Roux Associates, Inc.

Job Number: 490-116078-1
Sdg Number:

Duplicate - Batch: 490-386813

Method: Moisture
Preparation: N/A

Lab Sample ID:	490-116078-5	Analysis Batch:	490-386813	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/15/2016 1114	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	84.7	86.1	2	20	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Boston

490-116078 Chain of Custody

Cooler Received/Opened On 11/12/2016 @ 0950

Time Samples Removed From Cooler 1700 Time Samples Placed In Storage 1749 (2 Hour Window)

1. Tracking # 0852 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 17960358 pH Strip Lot N/A Chlorine Strip Lot N/A

2. Temperature of rep. sample or temp blank when opened: 2.7 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) PM

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA mm 11.12.16

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) MDM

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) MDM

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) MDM

I certify that I attached a label with the unique LIMS number to each container (intial) MDM

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

Loc: 490
116078

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: G. van der Ven	Lab PM: Huckaba, Jennifer	Carrie	COC No: 490-59312-19194.1
Client Contact: Matthew Casey	Phone: (315) 877-5946	E-Mail: jennifer.huckaba@testamericainc.com		Page: ~~Page 1 of 4~~ 1 of 2
Company: Roux Associates, Inc.		Analysis Requested		Job #:
Address: 12 Gill St., Suite 4700	Due Date Requested:			Preservation Codes:
City: Woburn	TAT Requested (days): Standard			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: MA, 01801	PO #: 0172.0210M009			
Phone:	WO #:			Other:
Email: mcasey@rouxinc.com	Project #: 49005538			
Project Name: Roux - Olean, NY	SSOW#:			
Site: 350/351 Franklin Ave.				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Standard 8260 List + TICS	8270D - Standard Semivolatile List	6010C - TAL Metals	7470B - Mercury	Moisture								Total Number of containers	Special Instructions/Note:
			Preservation Code:				EF	N	N	N	N									
END-402	11/10/16	1310	G	S	N		✓	✓	✓	✓	✓								5	-1
END-403	11/10/16	1420	G	S	N		✓	✓	✓	✓	✓								5	2
TRIP BLANK	—	—	TB	LAB	N		✓	✓	✓	✓	✓								2	3
SB-104-16-20	11/9/16	1315	G	S	N		✓	✓	✓	✓	✓								5	4
SB-100-16-20	11/9/16	1010	G	S	N		✓	✓	✓	✓	✓								5	5
SB-101-12-15	11/9/16	1115	G	S	N		✓	✓	✓	✓	✓								5	6
SB-102-16-19	11/9/16	1145	G	S	N		✓	✓	✓	✓	✓								5	7
END-401	11/10/16	1300	G	S	N		✓	✓	✓	✓	✓								5	8
SB-103-12-14	11/9/16	1200	G	S	N		✓	✓	✓	✓	✓								5	9
END-400	11/10/16	1045	G	S	N		✓	✓	✓	✓	✓								5	10
END-405	11/11/16	1315	G	S	N		✓	✓	✓	✓	✓								5	11

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) CATA

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	11/11/16 1431	Roux	FEDEX	11/	
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 11-12-16 0950	Company TAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.7c

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

Loc: 490
116078

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: G. vanderven	Lab PM: Huckaba, Jennifer	Carri	COC No: 490-59312-19194.4
Client Contact: Matthew Casey	Phone: (315) 877-5946	E-Mail: jennifer.huckaba@testamericainc.com		Page: ~~Page 1 of 1~~ 2 of 2
Company: Roux Associates, Inc.				Job #:
Address: 12 Gill St., Suite 4700	Due Date Requested:			
City: Woburn	TAT Requested (days): Standard			
State, Zip: MA, 01801				
Phone:	PO #: 0172.0210M009			
Email: mcasey@rouxinc.com	WO #:			
Project Name: Roux - Olean, NY	Project #: 49005538			
Site: 350/351 Franklin St.	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Standard 8260 List + TICS	8270D - Standard Semivolatile List	6010C - TAL Metals	7471B - Mercury	Moisture		8260C - Standard 8260 List	8270D - Standard Semivolatile List	6010C - TAL Metals	7470A - Mercury				Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
END-404	11/11/16	1115	G	S	N	N	✓	✓	✓	✓	✓									5	-12

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) CATA

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Dana Nadz	11/11/16 1431	ROUX	FEDEX	11/	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			[signature]	11.12.16@0950	TAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.7c

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 490-116078-1
SDG Number:

Login Number: 116078
List Number: 1
Creator: McBride, Mike

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

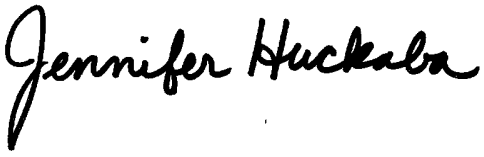
Job Number: 490-116536-1

Job Description: 350/351 Franklin St, Olean, NY

Contract Number: A2288121

For:
Roux Associates, Inc.
12 Gill St., Suite 4700
Woburn, MA 01801

Attention: Matthew Casey



Approved for release.
Jennifer Huckaba
Project Manager II
12/6/2016 10:40 PM

Jennifer Huckaba, Project Manager II
2960 Foster Creighton Drive, Nashville, TN, 37204
(615)301-5042
jennifer.huckaba@testamericainc.com
12/06/2016

The laboratory is only responsible for the certified testing and is not responsible for the sample integrity prior to laboratory receipt.

Table of Contents

Job Narrative
490-116536-1 and 490-116539

Comments
No additional comments.

Receipt
The samples were received on 11/19/2016 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.8º C and 5.3º C.

Receipt Exceptions
This sample (Trip Blank (490-116539-9)) is marked for all the tests on the COC but the only containers received are for the 8260 analysis. VOCs will be analyzed.

GC/MS VOA
Method(s) 8260C: Internal standard responses were outside of acceptance limits for the following sample: END 418 (490-116536-3). The sample shows evidence of matrix interference. Associated analytes are not reported in this batch.

Method(s) 8260C: Surrogate recovery for the following sample was outside control limits: END 424 (490-116536-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260C: The following samples were diluted due to the nature of the sample matrix: END 420 (490-116536-2), END 418 (490-116536-3) and END 432 (490-116539-8). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for batch 490-389632 recovered outside control limits for the following analytes: 1,2,3-Trichloropropane, 1,2-Dichloroethane, 1,2 Dibromoethane, Bromochloromethane, Bromodichloromethane, cis-1,2-Dichloroethene, 1,1,2,2-Tetrachloroethane, 1,3-Dichloropropane, Dibromochloromethane, Bromoform, 1,2-Dichloropropane, Methylene Chloride, 1,1,2-Trichloroethane, Ethylene bromide, Vinyl acetate and Chloroform.

Method(s) 8260C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 490-389632.

Method(s) 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 490-390023 were outside control limits for Acetone and Styrene. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8260C: Batch 490-390503 is reported without a matrix spike/matrix spike duplicate (MS/MSD). The batch MS/MSD was originally performed on another client's sample, and this test was canceled at client request. This MS/MSD result does not have immediate bearing on any samples except for the actual sample spiked. The associated laboratory control sample (LCS) met acceptance criteria and provides long-term precision and accuracy for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: END 424 (490-116536-5). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The laboratory control sample (LCS), matrix spike (MS), and matrix spike duplicate (MSD) for preparation batch 490-389827 and 490-389827 and analytical batch 490-390541 recovered outside control limits for the following analyte(s): 2,4-Dinitrophenol and 4,6-Dinitro-2-methylphenol has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010B, 6010C: The method blank for preparation batch 490-390569 and analytical batch 490-390855 contained Zinc above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

The laboratory is only responsible for the certified testing and is not responsible for the sample integrity prior to laboratory receipt.

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116536-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116536-1	**END 419**					
Acetone		0.0921		0.0463	mg/Kg	8260C
2-Butanone (MEK)		0.00896	J	0.0463	mg/Kg	8260C
1,1,2-Trichloroethane		0.0245	*	0.00463	mg/Kg	8260C
Benzo(g,h,i)perylene		0.0700		0.0660	mg/Kg	8270D
Ideno(1,2,3-cd)pyrene		0.0391	J	0.0660	mg/Kg	8270D
Aluminum		6390		22.0	mg/Kg	6010C
Arsenic		7.16		2.20	mg/Kg	6010C
Barium		28.4		2.20	mg/Kg	6010C
Beryllium		0.308	J	1.10	mg/Kg	6010C
Cadmium		0.330	J	1.10	mg/Kg	6010C
Calcium		541		220	mg/Kg	6010C
Chromium		8.09		1.10	mg/Kg	6010C
Cobalt		4.78		2.20	mg/Kg	6010C
Copper		17.4		2.20	mg/Kg	6010C
Iron		15500		44.1	mg/Kg	6010C
Lead		13.7		1.10	mg/Kg	6010C
Magnesium		1840		220	mg/Kg	6010C
Manganese		119		3.30	mg/Kg	6010C
Nickel		13.6		2.20	mg/Kg	6010C
Potassium		503		220	mg/Kg	6010C
Selenium		1.67	J	2.20	mg/Kg	6010C
Silver		0.595	J	1.10	mg/Kg	6010C
Vanadium		11.3		11.0	mg/Kg	6010C
Zinc		43.8	B	11.0	mg/Kg	6010C
Percent Solids		89.5		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116536-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116536-2	**END 420**					
Benzo(g,h,i)perylene		0.154		0.0668	mg/Kg	8270D
Ideno(1,2,3-cd)pyrene		0.0429	J	0.0668	mg/Kg	8270D
Aluminum		6910		22.2	mg/Kg	6010C
Arsenic		8.35		2.22	mg/Kg	6010C
Barium		61.1		2.22	mg/Kg	6010C
Beryllium		0.399	J	1.11	mg/Kg	6010C
Cadmium		0.288	J	1.11	mg/Kg	6010C
Calcium		417		222	mg/Kg	6010C
Chromium		9.26		1.11	mg/Kg	6010C
Cobalt		4.01		2.22	mg/Kg	6010C
Copper		21.2		2.22	mg/Kg	6010C
Iron		13200		44.3	mg/Kg	6010C
Lead		14.0		1.11	mg/Kg	6010C
Magnesium		1940		222	mg/Kg	6010C
Manganese		92.0		3.32	mg/Kg	6010C
Nickel		14.2		2.22	mg/Kg	6010C
Potassium		476		222	mg/Kg	6010C
Selenium		1.66	J	2.22	mg/Kg	6010C
Silver		0.487	J	1.11	mg/Kg	6010C
Vanadium		11.6		11.1	mg/Kg	6010C
Zinc		56.0	B	11.1	mg/Kg	6010C
Percent Solids		89.7		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116536-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116536-3	**END 418**					
Acetone		0.427		0.0527	mg/Kg	8260C
Naphthalene		0.485		0.367	mg/Kg	8260C
n-Butylbenzene		0.497		0.147	mg/Kg	8260C
N-Propylbenzene		0.114	J	0.147	mg/Kg	8260C
p-Isopropyltoluene		0.116	J	0.147	mg/Kg	8260C
tert-Butylbenzene		0.270		0.147	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.137	J	0.147	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.109	J	0.147	mg/Kg	8260C
Benzo(a)anthracene		0.0417	J	0.0670	mg/Kg	8270D
Benzo(a)pyrene		0.0295	J	0.0670	mg/Kg	8270D
Benzo(b)fluoranthene		0.0368	J	0.0670	mg/Kg	8270D
Chrysene		0.118		0.0670	mg/Kg	8270D
Fluoranthene		0.0684		0.0670	mg/Kg	8270D
1-Methylnaphthalene		0.618		0.0670	mg/Kg	8270D
Phenanthrene		0.416		0.0670	mg/Kg	8270D
Pyrene		0.124		0.0670	mg/Kg	8270D
Aluminum		4880		21.2	mg/Kg	6010C
Arsenic		7.07		2.12	mg/Kg	6010C
Barium		52.0		2.12	mg/Kg	6010C
Beryllium		0.276	J	1.06	mg/Kg	6010C
Cadmium		0.361	J	1.06	mg/Kg	6010C
Calcium		1950		212	mg/Kg	6010C
Chromium		6.67		1.06	mg/Kg	6010C
Cobalt		4.37		2.12	mg/Kg	6010C
Copper		22.2		2.12	mg/Kg	6010C
Iron		12300		42.5	mg/Kg	6010C
Lead		13.4		1.06	mg/Kg	6010C
Magnesium		1760		212	mg/Kg	6010C
Manganese		3490		3.18	mg/Kg	6010C
Nickel		11.7		2.12	mg/Kg	6010C
Potassium		413		212	mg/Kg	6010C
Selenium		2.74		2.12	mg/Kg	6010C
Silver		1.40		1.06	mg/Kg	6010C
Vanadium		9.66	J	10.6	mg/Kg	6010C
Zinc		91.9	B	10.6	mg/Kg	6010C
Percent Solids		90.6		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116536-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116536-4	**END 407**					
Acetone		0.0895		0.0520	mg/Kg	8260C
2-Butanone (MEK)		0.0126	J	0.0520	mg/Kg	8260C
Carbon disulfide		0.0304		0.00520	mg/Kg	8260C
Aluminum		5750		21.9	mg/Kg	6010C
Arsenic		5.28		2.19	mg/Kg	6010C
Barium		30.0		2.19	mg/Kg	6010C
Beryllium		0.394	J	1.09	mg/Kg	6010C
Cadmium		0.263	J	1.09	mg/Kg	6010C
Calcium		455		219	mg/Kg	6010C
Chromium		6.07		1.09	mg/Kg	6010C
Cobalt		3.15		2.19	mg/Kg	6010C
Copper		35.2		2.19	mg/Kg	6010C
Iron		9240		43.8	mg/Kg	6010C
Lead		10.4		1.09	mg/Kg	6010C
Magnesium		1570		219	mg/Kg	6010C
Manganese		93.0		3.28	mg/Kg	6010C
Nickel		10.8		2.19	mg/Kg	6010C
Potassium		347		219	mg/Kg	6010C
Vanadium		7.77	J	10.9	mg/Kg	6010C
Zinc		38.9	B	10.9	mg/Kg	6010C
Percent Solids		88.5		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116536-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116536-5	**END 424**					
Acetone		0.110		0.0622	mg/Kg	8260C
Benzene		0.00420		0.00249	mg/Kg	8260C
Chloroform		0.00372	*	0.00249	mg/Kg	8260C
Isopropylbenzene		0.0119		0.00249	mg/Kg	8260C
Methylene Chloride		0.00128	J *	0.0124	mg/Kg	8260C
N-Propylbenzene		0.0125		0.00249	mg/Kg	8260C
sec-Butylbenzene		0.00843		0.00249	mg/Kg	8260C
Toluene		0.00262		0.00249	mg/Kg	8260C
1,1,2-Trichloroethane		4.84		0.391	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.0423		0.00249	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.00983		0.00249	mg/Kg	8260C
Benzo(g,h,i)perylene		0.169	J	0.333	mg/Kg	8270D
Aluminum		9660		23.8	mg/Kg	6010C
Arsenic		9.64		2.38	mg/Kg	6010C
Barium		67.6		2.38	mg/Kg	6010C
Beryllium		0.452	J	1.19	mg/Kg	6010C
Cadmium		0.262	J	1.19	mg/Kg	6010C
Calcium		749		238	mg/Kg	6010C
Chromium		11.9		1.19	mg/Kg	6010C
Cobalt		6.59		2.38	mg/Kg	6010C
Copper		34.1		2.38	mg/Kg	6010C
Iron		16100		47.6	mg/Kg	6010C
Lead		24.6		1.19	mg/Kg	6010C
Magnesium		2320		238	mg/Kg	6010C
Manganese		229		3.57	mg/Kg	6010C
Nickel		16.3		2.38	mg/Kg	6010C
Potassium		625		238	mg/Kg	6010C
Selenium		1.93	J	2.38	mg/Kg	6010C
Silver		0.666	J	1.19	mg/Kg	6010C
Sodium		426		238	mg/Kg	6010C
Vanadium		16.6		11.9	mg/Kg	6010C
Zinc		65.1	B	11.9	mg/Kg	6010C
Mercury		0.0361	J	0.117	mg/Kg	7471B
Percent Solids		84.0		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116536-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116536-6	**END 425**					
Acetone		0.177		0.0423	mg/Kg	8260C
Benzene		0.00199		0.00169	mg/Kg	8260C
2-Butanone (MEK)		0.0133	J	0.0423	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.000900	J	0.00169	mg/Kg	8260C
Anthracene		0.0651	J	0.0653	mg/Kg	8270D
Benzo(a)anthracene		0.239		0.0653	mg/Kg	8270D
Benzo(a)pyrene		0.221		0.0653	mg/Kg	8270D
Benzo(b)fluoranthene		0.316		0.0653	mg/Kg	8270D
Benzo(g,h,i)perylene		0.157		0.0653	mg/Kg	8270D
Benzo(k)fluoranthene		0.120		0.0653	mg/Kg	8270D
Chrysene		0.248		0.0653	mg/Kg	8270D
Dibenzo(a,h)anthracene		0.0399	J	0.0653	mg/Kg	8270D
Fluoranthene		0.525		0.0653	mg/Kg	8270D
Ideno(1,2,3-cd)pyrene		0.147		0.0653	mg/Kg	8270D
Phenanthrene		0.394		0.0653	mg/Kg	8270D
Pyrene		0.446		0.0653	mg/Kg	8270D
Aluminum		10700		22.5	mg/Kg	6010C
Arsenic		9.93		2.25	mg/Kg	6010C
Barium		57.1		2.25	mg/Kg	6010C
Beryllium		0.472	J	1.12	mg/Kg	6010C
Cadmium		0.135	J	1.12	mg/Kg	6010C
Calcium		273		225	mg/Kg	6010C
Chromium		12.3		1.12	mg/Kg	6010C
Cobalt		7.01		2.25	mg/Kg	6010C
Copper		21.2		2.25	mg/Kg	6010C
Iron		16800		45.0	mg/Kg	6010C
Lead		14.8		1.12	mg/Kg	6010C
Magnesium		2430		225	mg/Kg	6010C
Manganese		559		3.37	mg/Kg	6010C
Nickel		16.9		2.25	mg/Kg	6010C
Potassium		636		225	mg/Kg	6010C
Selenium		2.09	J	2.25	mg/Kg	6010C
Silver		0.764	J	1.12	mg/Kg	6010C
Vanadium		17.2		11.2	mg/Kg	6010C
Zinc		57.7	B	11.2	mg/Kg	6010C
Percent Solids		87.8		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116536-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116536-7	**END 428**					
Acetone		0.238		0.0520	mg/Kg	8260C
2-Butanone (MEK)		0.0248	J	0.0520	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.00119	J	0.00208	mg/Kg	8260C
Pyrene		0.0351	J	0.0663	mg/Kg	8270D
Aluminum		6110		21.2	mg/Kg	6010C
Arsenic		7.47		2.12	mg/Kg	6010C
Barium		54.0		2.12	mg/Kg	6010C
Beryllium		0.297	J	1.06	mg/Kg	6010C
Cadmium		0.276	J	1.06	mg/Kg	6010C
Calcium		295		212	mg/Kg	6010C
Chromium		8.44		1.06	mg/Kg	6010C
Cobalt		4.43		2.12	mg/Kg	6010C
Copper		32.3		2.12	mg/Kg	6010C
Iron		15000		42.4	mg/Kg	6010C
Lead		12.7		1.06	mg/Kg	6010C
Magnesium		1710		212	mg/Kg	6010C
Manganese		477		3.18	mg/Kg	6010C
Nickel		13.0		2.12	mg/Kg	6010C
Potassium		397		212	mg/Kg	6010C
Selenium		1.63	J	2.12	mg/Kg	6010C
Silver		0.658	J	1.06	mg/Kg	6010C
Vanadium		11.0		10.6	mg/Kg	6010C
Zinc		62.6	B	10.6	mg/Kg	6010C
Percent Solids		91.7		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116536-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116536-8	**END 429**					
Acetone		0.315		0.0419	mg/Kg	8260C
Benzene		0.00117	J	0.00167	mg/Kg	8260C
2-Butanone (MEK)		0.0362	J	0.0419	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.00181		0.00167	mg/Kg	8260C
Benzo(a)anthracene		0.0441	J	0.0648	mg/Kg	8270D
Benzo(a)pyrene		0.0398	J	0.0648	mg/Kg	8270D
Benzo(b)fluoranthene		0.0420	J	0.0648	mg/Kg	8270D
Chrysene		0.0386	J	0.0648	mg/Kg	8270D
Fluoranthene		0.0764		0.0648	mg/Kg	8270D
Phenanthrene		0.0456	J	0.0648	mg/Kg	8270D
Pyrene		0.0738		0.0648	mg/Kg	8270D
Aluminum		5680		21.9	mg/Kg	6010C
Arsenic		5.91		2.19	mg/Kg	6010C
Barium		49.9		2.19	mg/Kg	6010C
Beryllium		0.263	J	1.09	mg/Kg	6010C
Cadmium		0.350	J	1.09	mg/Kg	6010C
Calcium		574		219	mg/Kg	6010C
Chromium		7.35		1.09	mg/Kg	6010C
Cobalt		5.34		2.19	mg/Kg	6010C
Copper		19.4		2.19	mg/Kg	6010C
Iron		11700		43.8	mg/Kg	6010C
Lead		15.2		1.09	mg/Kg	6010C
Magnesium		1620		219	mg/Kg	6010C
Manganese		601		3.28	mg/Kg	6010C
Nickel		12.3		2.19	mg/Kg	6010C
Potassium		447		219	mg/Kg	6010C
Silver		0.569	J	1.09	mg/Kg	6010C
Vanadium		11.2		10.9	mg/Kg	6010C
Zinc		58.7	B	10.9	mg/Kg	6010C
Percent Solids		91.9		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116536-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116539-1	**END 430**					
Acetone		0.502		0.0666	mg/Kg	8260C
Benzene		0.00206	J	0.00266	mg/Kg	8260C
2-Butanone (MEK)		0.0333	J	0.0666	mg/Kg	8260C
m,p-Xylene		0.00213	J	0.00533	mg/Kg	8260C
Toluene		0.00344		0.00266	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.00183	J	0.00266	mg/Kg	8260C
Xylenes (total)		0.00213	J	0.00799	mg/Kg	8260C
Aluminum		9380		23.2	mg/Kg	6010C
Arsenic		7.52		2.32	mg/Kg	6010C
Barium		78.0		2.32	mg/Kg	6010C
Beryllium		0.371	J	1.16	mg/Kg	6010C
Cadmium		0.510	J	1.16	mg/Kg	6010C
Calcium		2750		232	mg/Kg	6010C
Chromium		10.2		1.16	mg/Kg	6010C
Cobalt		6.43		2.32	mg/Kg	6010C
Copper		18.5		2.32	mg/Kg	6010C
Iron		13900		46.4	mg/Kg	6010C
Lead		16.9		1.16	mg/Kg	6010C
Magnesium		2420		232	mg/Kg	6010C
Manganese		958		3.48	mg/Kg	6010C
Nickel		14.1		2.32	mg/Kg	6010C
Potassium		568		232	mg/Kg	6010C
Selenium		1.83	J	2.32	mg/Kg	6010C
Silver		0.766	J	1.16	mg/Kg	6010C
Thallium		0.719	J	2.32	mg/Kg	6010C
Vanadium		16.1		11.6	mg/Kg	6010C
Zinc		66.9	B	11.6	mg/Kg	6010C
Percent Solids		86.4		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116536-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116539-2	**END 427**					
Acetone		0.453		0.0665	mg/Kg	8260C
Benzene		0.00134	J	0.00266	mg/Kg	8260C
2-Butanone (MEK)		0.0426	J	0.0665	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.00185	J	0.00266	mg/Kg	8260C
Aluminum		4690		21.5	mg/Kg	6010C
Arsenic		5.98		2.15	mg/Kg	6010C
Barium		147		2.15	mg/Kg	6010C
Beryllium		0.215	J	1.07	mg/Kg	6010C
Cadmium		0.580	J	1.07	mg/Kg	6010C
Calcium		665		215	mg/Kg	6010C
Chromium		5.83		1.07	mg/Kg	6010C
Cobalt		4.38		2.15	mg/Kg	6010C
Copper		13.7		2.15	mg/Kg	6010C
Iron		7970		43.0	mg/Kg	6010C
Lead		9.48		1.07	mg/Kg	6010C
Magnesium		1140		215	mg/Kg	6010C
Manganese		730		3.22	mg/Kg	6010C
Nickel		10.3		2.15	mg/Kg	6010C
Potassium		310		215	mg/Kg	6010C
Silver		0.494	J	1.07	mg/Kg	6010C
Sodium		190	J	215	mg/Kg	6010C
Vanadium		7.78	J	10.7	mg/Kg	6010C
Zinc		52.4	B	10.7	mg/Kg	6010C
Percent Solids		88.6		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116536-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116539-3	**END 433**					
Acetone		0.210		0.0642	mg/Kg	8260C
Bromodichloromethane		0.00280		0.00257	mg/Kg	8260C
2-Butanone (MEK)		0.0264	J	0.0642	mg/Kg	8260C
tert-Butylbenzene		0.00195	J	0.00257	mg/Kg	8260C
1,1,2-Trichloroethane		0.0573		0.00642	mg/Kg	8260C
Aluminum		7040		21.9	mg/Kg	6010C
Arsenic		22.1		2.19	mg/Kg	6010C
Barium		30.1		2.19	mg/Kg	6010C
Beryllium		0.307	J	1.10	mg/Kg	6010C
Cadmium		0.395	J	1.10	mg/Kg	6010C
Calcium		242		219	mg/Kg	6010C
Chromium		9.09		1.10	mg/Kg	6010C
Cobalt		6.61		2.19	mg/Kg	6010C
Copper		31.2		2.19	mg/Kg	6010C
Iron		26400		43.9	mg/Kg	6010C
Lead		256		1.10	mg/Kg	6010C
Magnesium		1920		219	mg/Kg	6010C
Manganese		245		3.29	mg/Kg	6010C
Nickel		17.1		2.19	mg/Kg	6010C
Potassium		538		219	mg/Kg	6010C
Selenium		2.74		2.19	mg/Kg	6010C
Silver		1.21		1.10	mg/Kg	6010C
Vanadium		11.9		11.0	mg/Kg	6010C
Zinc		96.0	B	11.0	mg/Kg	6010C
Mercury		0.114		0.104	mg/Kg	7471B
Percent Solids		92.0		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116536-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116539-4	**END 431**					
Acetone		0.186		0.0485	mg/Kg	8260C
2-Butanone (MEK)		0.0102	J	0.0485	mg/Kg	8260C
Carbon disulfide		0.00418	J	0.00485	mg/Kg	8260C
Benzo(a)anthracene		0.161	J	0.330	mg/Kg	8270D
Benzo(a)pyrene		0.134	J	0.330	mg/Kg	8270D
Benzo(b)fluoranthene		0.157	J	0.330	mg/Kg	8270D
Fluoranthene		0.253	J	0.330	mg/Kg	8270D
Phenanthrene		0.184	J	0.330	mg/Kg	8270D
Pyrene		0.273	J	0.330	mg/Kg	8270D
Aluminum		10500		22.4	mg/Kg	6010C
Arsenic		8.75		2.24	mg/Kg	6010C
Barium		75.0		2.24	mg/Kg	6010C
Beryllium		0.404	J	1.12	mg/Kg	6010C
Cadmium		0.292	J	1.12	mg/Kg	6010C
Calcium		329		224	mg/Kg	6010C
Chromium		10.1		1.12	mg/Kg	6010C
Cobalt		6.37		2.24	mg/Kg	6010C
Copper		19.6		2.24	mg/Kg	6010C
Iron		17000		44.9	mg/Kg	6010C
Lead		17.4		1.12	mg/Kg	6010C
Magnesium		1960		224	mg/Kg	6010C
Manganese		630		3.37	mg/Kg	6010C
Nickel		15.4		2.24	mg/Kg	6010C
Potassium		581		224	mg/Kg	6010C
Selenium		2.07	J	2.24	mg/Kg	6010C
Silver		0.808	J	1.12	mg/Kg	6010C
Vanadium		17.5		11.2	mg/Kg	6010C
Zinc		71.5	B	11.2	mg/Kg	6010C
Percent Solids		89.8		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116536-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116539-5	**END 434**					
Acetone		0.370		0.0524	mg/Kg	8260C
Benzene		0.00224		0.00210	mg/Kg	8260C
2-Butanone (MEK)		0.0387	J	0.0524	mg/Kg	8260C
Toluene		0.00112	J	0.00210	mg/Kg	8260C
1,1,2-Trichloroethane		0.0432		0.00524	mg/Kg	8260C
Aluminum		10500		22.6	mg/Kg	6010C
Arsenic		10.9		2.26	mg/Kg	6010C
Barium		52.3		2.26	mg/Kg	6010C
Beryllium		0.452	J	1.13	mg/Kg	6010C
Cadmium		0.294	J	1.13	mg/Kg	6010C
Calcium		471		226	mg/Kg	6010C
Chromium		11.2		1.13	mg/Kg	6010C
Cobalt		10.9		2.26	mg/Kg	6010C
Copper		23.6		2.26	mg/Kg	6010C
Iron		21200		45.2	mg/Kg	6010C
Lead		15.6		1.13	mg/Kg	6010C
Magnesium		1960		226	mg/Kg	6010C
Manganese		387		3.39	mg/Kg	6010C
Nickel		19.6		2.26	mg/Kg	6010C
Potassium		500		226	mg/Kg	6010C
Selenium		1.94	J	2.26	mg/Kg	6010C
Silver		0.926	J	1.13	mg/Kg	6010C
Vanadium		15.9		11.3	mg/Kg	6010C
Zinc		53.2		11.3	mg/Kg	6010C
Percent Solids		89.3		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116536-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116539-6	**END 423**					
Acetone		0.0900		0.0891	mg/Kg	8260C
Benzene		0.00260	J	0.00356	mg/Kg	8260C
Aluminum		11900		24.1	mg/Kg	6010C
Arsenic		12.2		2.41	mg/Kg	6010C
Barium		71.7		2.41	mg/Kg	6010C
Beryllium		0.579	J	1.21	mg/Kg	6010C
Cadmium		0.410	J	1.21	mg/Kg	6010C
Calcium		1720		241	mg/Kg	6010C
Chromium		16.1		1.21	mg/Kg	6010C
Cobalt		8.65		2.41	mg/Kg	6010C
Copper		17.1		2.41	mg/Kg	6010C
Iron		18300		48.2	mg/Kg	6010C
Lead		26.1		1.21	mg/Kg	6010C
Magnesium		3310		241	mg/Kg	6010C
Manganese		411		3.62	mg/Kg	6010C
Nickel		17.2		2.41	mg/Kg	6010C
Potassium		785		241	mg/Kg	6010C
Selenium		1.40	J	2.41	mg/Kg	6010C
Silver		0.723	J	1.21	mg/Kg	6010C
Vanadium		19.0		12.1	mg/Kg	6010C
Zinc		65.7		12.1	mg/Kg	6010C
Mercury		0.0354	J	0.117	mg/Kg	7471B
Percent Solids		82.3		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116536-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116539-7	**END 426**					
Acetone		0.584		0.0457	mg/Kg	8260C
Benzene		0.00293		0.00183	mg/Kg	8260C
2-Butanone (MEK)		0.0523		0.0457	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.00153	J	0.00183	mg/Kg	8260C
Benzo(a)anthracene		0.0424	J	0.0669	mg/Kg	8270D
Benzo(a)pyrene		0.0431	J	0.0669	mg/Kg	8270D
Benzo(b)fluoranthene		0.0558	J	0.0669	mg/Kg	8270D
Benzo(g,h,i)perylene		0.0339	J	0.0669	mg/Kg	8270D
Benzo(k)fluoranthene		0.0352	J	0.0669	mg/Kg	8270D
Chrysene		0.0483	J	0.0669	mg/Kg	8270D
Fluoranthene		0.0900		0.0669	mg/Kg	8270D
Ideno(1,2,3-cd)pyrene		0.0304	J	0.0669	mg/Kg	8270D
Phenanthrene		0.0552	J	0.0669	mg/Kg	8270D
Pyrene		0.0781		0.0669	mg/Kg	8270D
Aluminum		7530		21.4	mg/Kg	6010C
Arsenic		7.32		2.14	mg/Kg	6010C
Barium		72.1		2.14	mg/Kg	6010C
Beryllium		0.407	J	1.07	mg/Kg	6010C
Cadmium		0.492	J	1.07	mg/Kg	6010C
Calcium		872		214	mg/Kg	6010C
Chromium		8.75		1.07	mg/Kg	6010C
Cobalt		7.66		2.14	mg/Kg	6010C
Copper		19.0		2.14	mg/Kg	6010C
Iron		14500		42.8	mg/Kg	6010C
Lead		14.4		1.07	mg/Kg	6010C
Magnesium		1820		214	mg/Kg	6010C
Manganese		961		3.21	mg/Kg	6010C
Nickel		16.5		2.14	mg/Kg	6010C
Potassium		381		214	mg/Kg	6010C
Selenium		1.37	J	2.14	mg/Kg	6010C
Silver		0.728	J	1.07	mg/Kg	6010C
Vanadium		11.7		10.7	mg/Kg	6010C
Zinc		85.2		10.7	mg/Kg	6010C
Mercury		0.0563	J	0.107	mg/Kg	7471B
Percent Solids		89.4		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116536-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116539-8	**END 432**					
Aluminum		7560		21.6	mg/Kg	6010C
Arsenic		6.76		2.16	mg/Kg	6010C
Barium		35.6		2.16	mg/Kg	6010C
Beryllium		0.346	J	1.08	mg/Kg	6010C
Cadmium		0.346	J	1.08	mg/Kg	6010C
Calcium		353		216	mg/Kg	6010C
Chromium		8.00		1.08	mg/Kg	6010C
Cobalt		4.93		2.16	mg/Kg	6010C
Copper		12.1		2.16	mg/Kg	6010C
Iron		10500		43.2	mg/Kg	6010C
Lead		8.90		1.08	mg/Kg	6010C
Magnesium		1880		216	mg/Kg	6010C
Manganese		333		3.24	mg/Kg	6010C
Nickel		14.3		2.16	mg/Kg	6010C
Potassium		360		216	mg/Kg	6010C
Vanadium		9.49	J	10.8	mg/Kg	6010C
Zinc		45.8		10.8	mg/Kg	6010C
Percent Solids		90.0		0.1	%	Moisture
490-116539-9TB	**TRIP BLANK**					
Acetone		0.0284	J	0.0500	mg/Kg	8260C

METHOD SUMMARY

Client: Roux Associates, Inc. Job Number: 490-116536-1

Description	Lab Location	Method	Preparation Method
Matrix: Soil			
Volatile Organic Compounds by GC/MS	TAL NSH	SW846 8260C	
Closed System Purge & Trap/Field Methanol	TAL NSH		SW846 5035A
Volatile Organic Compounds by GC/MS	TAL NSH	SW846 8260C	
Closed System Purge and Trap	TAL NSH		SW846 5035A
Semivolatile Organic Compounds (GC/MS)	TAL NSH	SW846 8270D	
Ultrasonic Extraction	TAL NSH		SW846 3550C
Metals (ICP)	TAL NSH	SW846 6010C	
Preparation, Metals, Microwave Assisted	TAL NSH		SW846 3051A
Mercury (CVAA)	TAL NSH	SW846 7471B	
Preparation, Mercury	TAL NSH		SW846 7471B
Percent Moisture	TAL NSH	EPA Moisture	

Lab References:

TAL NSH = TestAmerica Nashville

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Roux Associates, Inc. Job Number: 490-116536-1

Method	Analyst	Analyst ID
SW846 8260C	Cockrill, Tiffany S	TSC
SW846 8270D	Chaiyasit, Thitima 1	T1C
SW846 8270D	Squires, William D	WDS
SW846 6010C	Fly, Robyn D	RDF
SW846 6010C	Keller, Kris	KKK
SW846 7471B	Smith, Lauren C	LCS
EPA Moisture	Ali, Blnd A	BAA

SAMPLE SUMMARY

Client: Roux Associates, Inc. Job Number: 490-116536-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
490-116536-1	END 419	Soil	11/17/2016 0815	11/19/2016 0920
490-116536-2	END 420	Soil	11/17/2016 0815	11/19/2016 0920
490-116536-3	END 418	Soil	11/17/2016 0815	11/19/2016 0920
490-116536-4	END 407	Soil	11/17/2016 0945	11/19/2016 0920
490-116536-5	END 424	Soil	11/17/2016 0945	11/19/2016 0920
490-116536-6	END 425	Soil	11/17/2016 1045	11/19/2016 0920
490-116536-7	END 428	Soil	11/17/2016 1045	11/19/2016 0920
490-116536-8	END 429	Soil	11/17/2016 1045	11/19/2016 0920
490-116539-1	END 430	Soil	11/17/2016 1300	11/19/2016 0920
490-116539-2	END 427	Soil	11/17/2016 1045	11/19/2016 0920
490-116539-3	END 433	Soil	11/17/2016 1300	11/19/2016 0920
490-116539-4	END 431	Soil	11/17/2016 1300	11/19/2016 0920
490-116539-5	END 434	Soil	11/17/2016 1300	11/19/2016 0920
490-116539-6	END 423	Soil	11/17/2016 0945	11/19/2016 0920
490-116539-7	END 426	Soil	11/17/2016 1045	11/19/2016 0920
490-116539-8	END 432	Soil	11/17/2016 1300	11/19/2016 0920
490-116539-9TB	Trip Blank	Soil	11/17/2016 0101	11/19/2016 0920

SAMPLE RESULTS

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 419

Lab Sample ID: 490-116536-1 Date Sampled: 11/17/2016 0815
Client Matrix: Soil % Moisture: 10.5 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C Analysis Batch: 490-389632 Instrument ID: HP69
Prep Method: 5035A Prep Batch: 490-388503 Lab File ID: 112516-18.D
Dilution: 1.0 Initial Weight/Volume: 6.033 g
Analysis Date: 11/25/2016 2052 Final Weight/Volume: 5.0 mL
Prep Date: 11/17/2016 0815

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0921		0.00778	0.0463
Benzene		0.000620	U	0.000620	0.00185
Bromobenzene		0.000667	U	0.000667	0.00185
Bromochloromethane		0.000509	U *	0.000509	0.00185
Bromodichloromethane		0.000509	U *	0.000509	0.00185
Bromoform		0.000509	U *	0.000509	0.00185
Bromomethane		0.00111	U	0.00111	0.00185
2-Butanone (MEK)		0.00896	J	0.00472	0.0463
Carbon disulfide		0.00333	U	0.00333	0.00463
Carbon tetrachloride		0.000620	U	0.000620	0.00185
Chlorobenzene		0.000620	U	0.000620	0.00185
Chloroethane		0.00176	U	0.00176	0.00463
Chloroform		0.000620	U *	0.000620	0.00185
Chloromethane		0.000620	U	0.000620	0.00185
cis-1,2-Dichloroethene		0.000620	U *	0.000620	0.00185
cis-1,3-Dichloropropene		0.000620	U	0.000620	0.00185
Dibromochloromethane		0.000315	U *	0.000315	0.00185
1,2-Dibromo-3-chloropropane		0.000648	U	0.000648	0.00463
1,2-Dibromoethane		0.000926	U *	0.000926	0.00185
1,2-Dichlorobenzene		0.000315	U	0.000315	0.00185
1,3-Dichlorobenzene		0.000620	U	0.000620	0.00185
1,4-Dichlorobenzene		0.000620	U	0.000620	0.00185
Dichlorodifluoromethane		0.000926	U	0.000926	0.00185
1,1-Dichloroethane		0.000620	U	0.000620	0.00185
1,2-Dichloroethane		0.000620	U *	0.000620	0.00185
1,1-Dichloroethene		0.000528	U	0.000528	0.00185
1,2-Dichloropropane		0.000870	U *	0.000870	0.00185
1,3-Dichloropropane		0.000870	U *	0.000870	0.00185
2,2-Dichloropropane		0.000620	U	0.000620	0.00185
1,1-Dichloropropene		0.000472	U	0.000472	0.00185
Ethylbenzene		0.000620	U	0.000620	0.00185
Hexachlorobutadiene		0.00106	U	0.00106	0.00463
2-Hexanone		0.0155	U	0.0155	0.0463
Iodomethane		0.00620	U	0.00620	0.0185
Isopropylbenzene		0.000380	U	0.000380	0.00185
Methylene bromide		0.000518	U *	0.000518	0.00185
Methylene Chloride		0.000796	U *	0.000796	0.00926
4-Methyl-2-pentanone (MIBK)		0.00176	U	0.00176	0.0463
Methyl tert butyl ether		0.000889	U	0.000889	0.00185
m,p-Xylene		0.000518	U	0.000518	0.00370
Naphthalene		0.00157	U	0.00157	0.00463
n-Butylbenzene		0.000907	U	0.000907	0.00185
N-Propylbenzene		0.000620	U	0.000620	0.00185
o-Chlorotoluene		0.000824	U	0.000824	0.00185
o-Xylene		0.000620	U	0.000620	0.00185
p-Chlorotoluene		0.000778	U	0.000778	0.00185

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 419

Lab Sample ID: 490-116536-1 Date Sampled: 11/17/2016 0815
Client Matrix: Soil % Moisture: 10.5 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389632	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112516-18.D
Dilution:	1.0			Initial Weight/Volume:	6.033 g
Analysis Date:	11/25/2016 2052			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0815				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000620	U	0.000620	0.00185
sec-Butylbenzene		0.000620	U	0.000620	0.00185
Styrene		0.00102	U	0.00102	0.00185
tert-Butylbenzene		0.000833	U	0.000833	0.00185
1,1,1,2-Tetrachloroethane		0.000620	U	0.000620	0.00185
1,1,2,2-Tetrachloroethane		0.000926	U *	0.000926	0.00185
Tetrachloroethene		0.000676	U	0.000676	0.00185
Toluene		0.000685	U	0.000685	0.00185
trans-1,2-Dichloroethene		0.000620	U	0.000620	0.00185
trans-1,3-Dichloropropene		0.000620	U	0.000620	0.00185
1,2,3-Trichlorobenzene		0.000352	U	0.000352	0.00185
1,2,4-Trichlorobenzene		0.000620	U	0.000620	0.00185
1,1,1-Trichloroethane		0.000852	U	0.000852	0.00185
1,1,2-Trichloroethane		0.0245	*	0.00130	0.00463
Trichloroethene		0.000889	U	0.000889	0.00185
Trichlorofluoromethane		0.000926	U	0.000926	0.00185
1,2,3-Trichloropropane		0.000509	U *	0.000509	0.00185
1,2,4-Trimethylbenzene		0.000926	U	0.000926	0.00185
1,3,5-Trimethylbenzene		0.000694	U	0.000694	0.00185
Vinyl acetate		0.00407	U *	0.00407	0.0185
Vinyl chloride		0.00102	U	0.00102	0.00185
Xylenes (total)		0.00114	U	0.00114	0.00555

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	108		70 - 130
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 419

Lab Sample ID: 490-116536-1 Date Sampled: 11/17/2016 0815
Client Matrix: Soil % Moisture: 10.5 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389632	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112516-18.D
Dilution:	1.0			Initial Weight/Volume:	6.033 g
Analysis Date:	11/25/2016 2052			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0815				

Tentatively Identified Compounds **Number TIC's Found: 9**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
590-35-2	Pentane, 2,2-dimethyl-	3.13	0.00581	J N
108-08-7	Pentane, 2,4-dimethyl-	3.19	0.00647	J N
110-82-7	Cyclohexane	3.70	0.0113	
16883-48-0	Cyclopentane, 1,2,4-trimethyl-, (1.alpha.,2.beta.,4.alpha.)-	4.67	0.0201	J N
15890-40-1	Cyclopentane, 1,2,3-trimethyl-, (1.alpha.,2.alpha.,3.beta.)-	4.78	0.0176	J N
590-66-9	Cyclohexane, 1,1-dimethyl-	5.37	0.0157	J N
583-57-3	Cyclohexane, 1,2-dimethyl-	5.52	0.0249	J N
1839-63-0	Cyclohexane, 1,3,5-trimethyl-	5.94	0.0113	J N
1795-26-2	Cyclohexane, 1,3,5-trimethyl-, (1.alpha.,3.alpha.,5.beta.)-	6.24	0.00986	J N

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 420

Lab Sample ID: 490-116536-2 Date Sampled: 11/17/2016 0815
Client Matrix: Soil % Moisture: 10.3 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390503	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388496	Lab File ID:	112916-36.D
Dilution:	1.0			Initial Weight/Volume:	3.629 g
Analysis Date:	11/30/2016 0234			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0815				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		3.30	U	3.30	4.12
Benzene		0.0561	U	0.0561	0.165
Bromobenzene		0.0594	U	0.0594	0.165
Bromochloromethane		0.0462	U	0.0462	0.165
Bromodichloromethane		0.0462	U	0.0462	0.165
Bromoform		0.0462	U	0.0462	0.165
Bromomethane		0.0990	U	0.0990	0.165
2-Butanone (MEK)		0.429	U	0.429	4.12
Carbon disulfide		0.297	U	0.297	0.412
Carbon tetrachloride		0.0561	U	0.0561	0.165
Chlorobenzene		0.0561	U	0.0561	0.165
Chloroethane		0.157	U	0.157	0.412
Chloroform		0.0561	U	0.0561	0.165
Chloromethane		0.0561	U	0.0561	0.165
cis-1,2-Dichloroethene		0.0561	U	0.0561	0.165
cis-1,3-Dichloropropene		0.0561	U	0.0561	0.165
Dibromochloromethane		0.0280	U	0.0280	0.165
1,2-Dibromo-3-chloropropane		0.0577	U	0.0577	0.412
1,2-Dibromoethane		0.0825	U	0.0825	0.165
1,2-Dichlorobenzene		0.0280	U	0.0280	0.165
1,3-Dichlorobenzene		0.0561	U	0.0561	0.165
1,4-Dichlorobenzene		0.0775	U	0.0775	0.165
Dichlorodifluoromethane		0.0825	U	0.0825	0.165
1,1-Dichloroethane		0.0561	U	0.0561	0.165
1,2-Dichloroethane		0.0561	U	0.0561	0.165
1,1-Dichloroethene		0.0478	U	0.0478	0.165
1,2-Dichloropropane		0.0775	U	0.0775	0.165
1,3-Dichloropropane		0.0775	U	0.0775	0.165
2,2-Dichloropropane		0.0561	U	0.0561	0.165
1,1-Dichloropropene		0.0429	U	0.0429	0.165
Ethylbenzene		0.0561	U	0.0561	0.165
Hexachlorobutadiene		0.0907	U	0.0907	0.412
2-Hexanone		1.39	U	1.39	4.12
Iodomethane		0.561	U	0.561	1.65
Isopropylbenzene		0.0346	U	0.0346	0.165
Methylene bromide		0.0462	U	0.0462	0.165
Methylene Chloride		0.0825	U	0.0825	0.825
4-Methyl-2-pentanone (MIBK)		1.40	U	1.40	4.12
Methyl tert butyl ether		0.0825	U	0.0825	0.165
m,p-Xylene		0.0462	U	0.0462	0.247
Naphthalene		0.140	U	0.140	0.412
n-Butylbenzene		0.0825	U	0.0825	0.165
N-Propylbenzene		0.0561	U	0.0561	0.165
o-Chlorotoluene		0.0759	U	0.0759	0.165
o-Xylene		0.0561	U	0.0561	0.165
p-Chlorotoluene		0.0693	U	0.0693	0.165

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 420

Lab Sample ID: 490-116536-2 Date Sampled: 11/17/2016 0815
Client Matrix: Soil % Moisture: 10.3 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390503	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388496	Lab File ID:	112916-36.D
Dilution:	1.0			Initial Weight/Volume:	3.629 g
Analysis Date:	11/30/2016 0234			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0815				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.0561	U	0.0561	0.165
sec-Butylbenzene		0.0561	U	0.0561	0.165
Styrene		0.0907	U	0.0907	0.165
tert-Butylbenzene		0.0825	U	0.0825	0.165
1,1,1,2-Tetrachloroethane		0.0561	U	0.0561	0.165
1,1,2,2-Tetrachloroethane		0.0825	U	0.0825	0.165
Tetrachloroethene		0.0561	U	0.0561	0.165
Toluene		0.0610	U	0.0610	0.165
trans-1,2-Dichloroethene		0.0561	U	0.0561	0.165
trans-1,3-Dichloropropene		0.0561	U	0.0561	0.165
1,2,3-Trichlorobenzene		0.0313	U	0.0313	0.165
1,2,4-Trichlorobenzene		0.0561	U	0.0561	0.165
1,1,1-Trichloroethane		0.0759	U	0.0759	0.165
1,1,2-Trichloroethane		0.115	U	0.115	0.412
Trichloroethene		0.0825	U	0.0825	0.165
Trichlorofluoromethane		0.0825	U	0.0825	0.165
1,2,3-Trichloropropane		0.0462	U	0.0462	0.165
1,2,4-Trimethylbenzene		0.0825	U	0.0825	0.165
1,3,5-Trimethylbenzene		0.0627	U	0.0627	0.165
Vinyl acetate		0.363	U	0.363	1.65
Vinyl chloride		0.0907	U	0.0907	0.165
Xylenes (total)		0.102	U	0.102	0.247

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
Dibromofluoromethane (Surr)	121		70 - 130
1,2-Dichloroethane-d4 (Surr)	121		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 420

Lab Sample ID: 490-116536-2 Date Sampled: 11/17/2016 0815
Client Matrix: Soil % Moisture: 10.3 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390503	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388496	Lab File ID:	112916-36.D
Dilution:	1.0			Initial Weight/Volume:	3.629 g
Analysis Date:	11/30/2016 0234			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0815				

Tentatively Identified Compounds **Number TIC's Found: 5**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
67-63-0	Isopropyl alcohol	2.38	2.65	J
79-20-9	Methyl acetate	2.48	0.693	J
541-05-9	Cyclotrisiloxane, hexamethyl-	5.63	1.12	J N
91-57-6	2-Methylnaphthalene	12.24	0.270	J B
90-12-0	1-Methylnaphthalene	12.41	0.207	J B

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 418

Lab Sample ID: 490-116536-3 Date Sampled: 11/17/2016 0815
Client Matrix: Soil % Moisture: 9.4 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389632	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112516-20.D
Dilution:	1.0			Initial Weight/Volume:	5.235 g
Analysis Date:	11/25/2016 2151			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0815				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.427		0.00886	0.0527
Benzene		0.000706	U	0.000706	0.00211
Bromochloromethane		0.000580	U *	0.000580	0.00211
Bromodichloromethane		0.000580	U *	0.000580	0.00211
Bromoform		0.000580	U *	0.000580	0.00211
Bromomethane		0.00127	U	0.00127	0.00211
2-Butanone (MEK)		0.00538	U	0.00538	0.0527
Carbon disulfide		0.00380	U	0.00380	0.00527
Carbon tetrachloride		0.000706	U	0.000706	0.00211
Chlorobenzene		0.000706	U	0.000706	0.00211
Chloroethane		0.00200	U	0.00200	0.00527
Chloroform		0.000706	U *	0.000706	0.00211
Chloromethane		0.000706	U	0.000706	0.00211
cis-1,2-Dichloroethene		0.000706	U *	0.000706	0.00211
cis-1,3-Dichloropropene		0.000706	U	0.000706	0.00211
Dibromochloromethane		0.000358	U *	0.000358	0.00211
1,2-Dibromoethane		0.00105	U *	0.00105	0.00211
Dichlorodifluoromethane		0.00105	U	0.00105	0.00211
1,1-Dichloroethane		0.000706	U	0.000706	0.00211
1,2-Dichloroethane		0.000706	U *	0.000706	0.00211
1,1-Dichloroethene		0.000601	U	0.000601	0.00211
1,2-Dichloropropane		0.000991	U *	0.000991	0.00211
1,3-Dichloropropane		0.000991	U *	0.000991	0.00211
2,2-Dichloropropane		0.000706	U	0.000706	0.00211
1,1-Dichloropropene		0.000538	U	0.000538	0.00211
Ethylbenzene		0.000706	U	0.000706	0.00211
2-Hexanone		0.0176	U	0.0176	0.0527
Iodomethane		0.00706	U	0.00706	0.0211
Isopropylbenzene		0.000432	U	0.000432	0.00211
Methylene bromide		0.000590	U *	0.000590	0.00211
Methylene Chloride		0.000907	U *	0.000907	0.0105
4-Methyl-2-pentanone (MIBK)		0.00200	U	0.00200	0.0527
Methyl tert butyl ether		0.00101	U	0.00101	0.00211
m,p-Xylene		0.000590	U	0.000590	0.00422
o-Xylene		0.000706	U	0.000706	0.00211
Styrene		0.00116	U	0.00116	0.00211
1,1,1,2-Tetrachloroethane		0.000706	U	0.000706	0.00211
Tetrachloroethene		0.000770	U	0.000770	0.00211
Toluene		0.000780	U	0.000780	0.00211
trans-1,2-Dichloroethene		0.000706	U	0.000706	0.00211
trans-1,3-Dichloropropene		0.000706	U	0.000706	0.00211
1,1,1-Trichloroethane		0.000970	U	0.000970	0.00211
1,1,2-Trichloroethane		0.00148	U *	0.00148	0.00527
Trichloroethene		0.00101	U	0.00101	0.00211
Trichlorofluoromethane		0.00105	U	0.00105	0.00211
Vinyl acetate		0.00464	U *	0.00464	0.0211

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 418

Lab Sample ID: 490-116536-3 Date Sampled: 11/17/2016 0815
Client Matrix: Soil % Moisture: 9.4 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389632	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112516-20.D
Dilution:	1.0			Initial Weight/Volume:	5.235 g
Analysis Date:	11/25/2016 2151			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0815				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl chloride		0.00116	U	0.00116	0.00211
Xylenes (total)		0.00130	U	0.00130	0.00633

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	2928	*	70 - 130
Dibromofluoromethane (Surr)	104		70 - 130
1,2-Dichloroethane-d4 (Surr)	216	*	70 - 130
Toluene-d8 (Surr)	447	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 418

Lab Sample ID: 490-116536-3 Date Sampled: 11/17/2016 0815
Client Matrix: Soil % Moisture: 9.4 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389632	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112516-20.D
Dilution:	1.0			Initial Weight/Volume:	5.235 g
Analysis Date:	11/25/2016 2151			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0815				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
107-02-8	Acrolein	2.27	1.02	
75-05-8	Acetonitrile	2.54	0.623	
107-13-1	Acrylonitrile	2.71	0.385	
110-82-7	Cyclohexane	3.71	2.91	E
78-83-1	Isobutyl alcohol	3.71	122	E
140-88-5	Ethyl acrylate	4.48	2.80	E
79-46-9	2-Nitropropane	4.83	1.34	E
97-63-2	Ethyl methacrylate	6.13	1.94	E
110-57-6	trans-1,4-Dichloro-2-butene	7.76	9.53	E *
90-12-0	1-Methylnaphthalene	12.40	0.772	E B *

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 418

Lab Sample ID: 490-116536-3 Date Sampled: 11/17/2016 0815
Client Matrix: Soil % Moisture: 9.4 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390503	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388496	Lab File ID:	112916-37.D
Dilution:	1.0			Initial Weight/Volume:	4.049 g
Analysis Date:	11/30/2016 0304			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0815				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0528	U	0.0528	0.147
1,2-Dibromo-3-chloropropane		0.0513	U	0.0513	0.367
1,2-Dichlorobenzene		0.0249	U	0.0249	0.147
1,3-Dichlorobenzene		0.0499	U	0.0499	0.147
1,4-Dichlorobenzene		0.0690	U	0.0690	0.147
Hexachlorobutadiene		0.0807	U	0.0807	0.367
Naphthalene		0.485		0.125	0.367
n-Butylbenzene		0.497		0.0734	0.147
N-Propylbenzene		0.114	J	0.0499	0.147
o-Chlorotoluene		0.0675	U	0.0675	0.147
p-Chlorotoluene		0.0616	U	0.0616	0.147
p-Isopropyltoluene		0.116	J	0.0499	0.147
sec-Butylbenzene		0.0499	U	0.0499	0.147
tert-Butylbenzene		0.270		0.0734	0.147
1,1,2,2-Tetrachloroethane		0.0734	U	0.0734	0.147
1,2,3-Trichlorobenzene		0.0279	U	0.0279	0.147
1,2,4-Trichlorobenzene		0.0499	U	0.0499	0.147
1,2,3-Trichloropropane		0.0411	U	0.0411	0.147
1,2,4-Trimethylbenzene		0.137	J	0.0734	0.147
1,3,5-Trimethylbenzene		0.109	J	0.0557	0.147

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
Toluene-d8 (Surr)	106		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 407

Lab Sample ID: 490-116536-4 Date Sampled: 11/17/2016 0945
Client Matrix: Soil % Moisture: 11.5 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390023	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112816-19.D
Dilution:	1.0			Initial Weight/Volume:	5.432 g
Analysis Date:	11/28/2016 1756			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0945				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0895		0.00874	0.0520
Benzene		0.000697	U	0.000697	0.00208
Bromobenzene		0.000749	U	0.000749	0.00208
Bromochloromethane		0.000572	U	0.000572	0.00208
Bromodichloromethane		0.000572	U	0.000572	0.00208
Bromoform		0.000572	U	0.000572	0.00208
Bromomethane		0.00125	U	0.00125	0.00208
2-Butanone (MEK)		0.0126	J	0.00530	0.0520
Carbon disulfide		0.0304		0.00374	0.00520
Carbon tetrachloride		0.000697	U	0.000697	0.00208
Chlorobenzene		0.000697	U	0.000697	0.00208
Chloroethane		0.00198	U	0.00198	0.00520
Chloroform		0.000697	U	0.000697	0.00208
Chloromethane		0.000697	U	0.000697	0.00208
cis-1,2-Dichloroethene		0.000697	U	0.000697	0.00208
cis-1,3-Dichloropropene		0.000697	U	0.000697	0.00208
Dibromochloromethane		0.000354	U	0.000354	0.00208
1,2-Dibromo-3-chloropropane		0.000728	U	0.000728	0.00520
1,2-Dibromoethane		0.00104	U	0.00104	0.00208
1,2-Dichlorobenzene		0.000354	U	0.000354	0.00208
1,3-Dichlorobenzene		0.000697	U	0.000697	0.00208
1,4-Dichlorobenzene		0.000697	U	0.000697	0.00208
Dichlorodifluoromethane		0.00104	U	0.00104	0.00208
1,1-Dichloroethane		0.000697	U	0.000697	0.00208
1,2-Dichloroethane		0.000697	U	0.000697	0.00208
1,1-Dichloroethene		0.000593	U	0.000593	0.00208
1,2-Dichloropropane		0.000978	U	0.000978	0.00208
1,3-Dichloropropane		0.000978	U	0.000978	0.00208
2,2-Dichloropropane		0.000697	U	0.000697	0.00208
1,1-Dichloropropene		0.000530	U	0.000530	0.00208
Ethylbenzene		0.000697	U	0.000697	0.00208
Hexachlorobutadiene		0.00119	U	0.00119	0.00520
2-Hexanone		0.0174	U	0.0174	0.0520
Iodomethane		0.00697	U	0.00697	0.0208
Isopropylbenzene		0.000426	U	0.000426	0.00208
Methylene bromide		0.000582	U	0.000582	0.00208
Methylene Chloride		0.000895	U	0.000895	0.0104
4-Methyl-2-pentanone (MIBK)		0.00198	U	0.00198	0.0520
Methyl tert butyl ether		0.000999	U	0.000999	0.00208
m,p-Xylene		0.000582	U	0.000582	0.00416
Naphthalene		0.00177	U	0.00177	0.00520
n-Butylbenzene		0.00102	U	0.00102	0.00208
N-Propylbenzene		0.000697	U	0.000697	0.00208
o-Chlorotoluene		0.000926	U	0.000926	0.00208
o-Xylene		0.000697	U	0.000697	0.00208
p-Chlorotoluene		0.000874	U	0.000874	0.00208

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 407

Lab Sample ID: 490-116536-4 Date Sampled: 11/17/2016 0945
Client Matrix: Soil % Moisture: 11.5 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390023	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112816-19.D
Dilution:	1.0			Initial Weight/Volume:	5.432 g
Analysis Date:	11/28/2016 1756			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0945				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000697	U	0.000697	0.00208
sec-Butylbenzene		0.000697	U	0.000697	0.00208
Styrene		0.00114	U	0.00114	0.00208
tert-Butylbenzene		0.000936	U	0.000936	0.00208
1,1,1,2-Tetrachloroethane		0.000697	U	0.000697	0.00208
1,1,2,2-Tetrachloroethane		0.00104	U	0.00104	0.00208
Tetrachloroethene		0.000759	U	0.000759	0.00208
Toluene		0.000770	U	0.000770	0.00208
trans-1,2-Dichloroethene		0.000697	U	0.000697	0.00208
trans-1,3-Dichloropropene		0.000697	U	0.000697	0.00208
1,2,3-Trichlorobenzene		0.000395	U	0.000395	0.00208
1,2,4-Trichlorobenzene		0.000697	U	0.000697	0.00208
1,1,1-Trichloroethane		0.000957	U	0.000957	0.00208
1,1,2-Trichloroethane		0.00146	U	0.00146	0.00520
Trichloroethene		0.000999	U	0.000999	0.00208
Trichlorofluoromethane		0.00104	U	0.00104	0.00208
1,2,3-Trichloropropane		0.000572	U	0.000572	0.00208
1,2,4-Trimethylbenzene		0.00104	U	0.00104	0.00208
1,3,5-Trimethylbenzene		0.000780	U	0.000780	0.00208
Vinyl acetate		0.00458	U	0.00458	0.0208
Vinyl chloride		0.00114	U	0.00114	0.00208
Xylenes (total)		0.00128	U	0.00128	0.00624

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 407

Lab Sample ID: 490-116536-4 Date Sampled: 11/17/2016 0945
Client Matrix: Soil % Moisture: 11.5 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390023	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112816-19.D
Dilution:	1.0			Initial Weight/Volume:	5.432 g
Analysis Date:	11/28/2016 1756			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0945				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
110-82-7	Cyclohexane	3.73	0.0130	
78-83-1	Isobutyl alcohol	3.79	0.0569	J
1759-58-6	Cyclopentane, 1,3-dimethyl-, trans-	4.00	0.0127	J N
872-56-0	Isopropylcyclobutane	4.04	0.0209	J N
108-87-2	Methylcyclohexane	4.53	0.0897	
16883-48-0	Cyclopentane, 1,2,4-trimethyl-, (1.alpha.,2.beta.,4.alpha.)-	4.70	0.0154	J N
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.55	0.0194	J N
624-29-3	Cyclohexane, 1,4-dimethyl-, cis-	5.64	0.0177	J N
1678-91-7	Cyclohexane, ethyl-	6.04	0.0136	J N
3073-66-3	Cyclohexane, 1,1,3-trimethyl-	6.09	0.0193	J N

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 424

Lab Sample ID: 490-116536-5 Date Sampled: 11/17/2016 0945
Client Matrix: Soil % Moisture: 16.0 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389632	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112516-22.D
Dilution:	1.0			Initial Weight/Volume:	4.779 g
Analysis Date:	11/25/2016 2250			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0945				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.110		0.0105	0.0622
Benzene		0.00420		0.000834	0.00249
Bromobenzene		0.000896	U	0.000896	0.00249
Bromochloromethane		0.000685	U *	0.000685	0.00249
Bromodichloromethane		0.000685	U *	0.000685	0.00249
Bromoform		0.000685	U *	0.000685	0.00249
Bromomethane		0.00149	U	0.00149	0.00249
2-Butanone (MEK)		0.00635	U	0.00635	0.0622
Carbon disulfide		0.00448	U	0.00448	0.00622
Carbon tetrachloride		0.000834	U	0.000834	0.00249
Chlorobenzene		0.000834	U	0.000834	0.00249
Chloroethane		0.00237	U	0.00237	0.00622
Chloroform		0.00372	*	0.000834	0.00249
Chloromethane		0.000834	U	0.000834	0.00249
cis-1,2-Dichloroethene		0.000834	U *	0.000834	0.00249
cis-1,3-Dichloropropene		0.000834	U	0.000834	0.00249
Dibromochloromethane		0.000423	U *	0.000423	0.00249
1,2-Dibromo-3-chloropropane		0.000871	U	0.000871	0.00622
1,2-Dibromoethane		0.00124	U *	0.00124	0.00249
1,2-Dichlorobenzene		0.000423	U	0.000423	0.00249
1,3-Dichlorobenzene		0.000834	U	0.000834	0.00249
1,4-Dichlorobenzene		0.000834	U	0.000834	0.00249
Dichlorodifluoromethane		0.00124	U	0.00124	0.00249
1,1-Dichloroethane		0.000834	U	0.000834	0.00249
1,2-Dichloroethane		0.000834	U *	0.000834	0.00249
1,1-Dichloroethene		0.000710	U	0.000710	0.00249
1,2-Dichloropropane		0.00117	U *	0.00117	0.00249
1,3-Dichloropropane		0.00117	U *	0.00117	0.00249
2,2-Dichloropropane		0.000834	U	0.000834	0.00249
1,1-Dichloropropene		0.000635	U	0.000635	0.00249
Ethylbenzene		0.000834	U	0.000834	0.00249
Hexachlorobutadiene		0.00142	U	0.00142	0.00622
2-Hexanone		0.0208	U	0.0208	0.0622
Iodomethane		0.00834	U	0.00834	0.0249
Isopropylbenzene		0.0119		0.000510	0.00249
Methylene bromide		0.000697	U *	0.000697	0.00249
Methylene Chloride		0.00128	J *	0.00107	0.0124
4-Methyl-2-pentanone (MIBK)		0.00237	U	0.00237	0.0622
Methyl tert butyl ether		0.00120	U	0.00120	0.00249
m,p-Xylene		0.000697	U	0.000697	0.00498
Naphthalene		0.00212	U	0.00212	0.00622
n-Butylbenzene		0.00122	U	0.00122	0.00249
N-Propylbenzene		0.0125		0.000834	0.00249
o-Chlorotoluene		0.00111	U	0.00111	0.00249
o-Xylene		0.000834	U	0.000834	0.00249
p-Chlorotoluene		0.00105	U	0.00105	0.00249

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 424

Lab Sample ID: 490-116536-5 Date Sampled: 11/17/2016 0945
Client Matrix: Soil % Moisture: 16.0 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389632	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112516-22.D
Dilution:	1.0			Initial Weight/Volume:	4.779 g
Analysis Date:	11/25/2016 2250			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0945				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000834	U	0.000834	0.00249
sec-Butylbenzene		0.00843		0.000834	0.00249
Styrene		0.00137	U	0.00137	0.00249
tert-Butylbenzene		0.00112	U	0.00112	0.00249
1,1,1,2-Tetrachloroethane		0.000834	U	0.000834	0.00249
1,1,2,2-Tetrachloroethane		0.00124	U *	0.00124	0.00249
Tetrachloroethene		0.000909	U	0.000909	0.00249
Toluene		0.00262		0.000921	0.00249
trans-1,2-Dichloroethene		0.000834	U	0.000834	0.00249
trans-1,3-Dichloropropene		0.000834	U	0.000834	0.00249
1,2,3-Trichlorobenzene		0.000473	U	0.000473	0.00249
1,2,4-Trichlorobenzene		0.000834	U	0.000834	0.00249
1,1,1-Trichloroethane		0.00115	U	0.00115	0.00249
Trichloroethene		0.00120	U	0.00120	0.00249
Trichlorofluoromethane		0.00124	U	0.00124	0.00249
1,2,3-Trichloropropane		0.000685	U *	0.000685	0.00249
1,2,4-Trimethylbenzene		0.0423		0.00124	0.00249
1,3,5-Trimethylbenzene		0.00983		0.000934	0.00249
Vinyl acetate		0.00548	U *	0.00548	0.0249
Vinyl chloride		0.00137	U	0.00137	0.00249
Xylenes (total)		0.00153	U	0.00153	0.00747

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
Dibromofluoromethane (Surr)	88		70 - 130
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
Toluene-d8 (Surr)	191	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 424

Lab Sample ID: 490-116536-5 Date Sampled: 11/17/2016 0945
Client Matrix: Soil % Moisture: 16.0 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389632	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112516-22.D
Dilution:	1.0			Initial Weight/Volume:	4.779 g
Analysis Date:	11/25/2016 2250			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0945				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
96-37-7	Cyclopentane, methyl-	3.25	0.309	J N
110-82-7	Cyclohexane	3.69	0.607	E
78-83-1	Isobutyl alcohol	3.76	5.57	
108-87-2	Methylcyclohexane	4.49	1.22	E
79-46-9	2-Nitropropane	4.89	1.35	E
590-66-9	Cyclohexane, 1,1-dimethyl-	5.37	0.284	J N
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.52	0.350	J N
1678-91-7	Cyclohexane, ethyl-	6.01	0.290	J N
3073-66-3	Cyclohexane, 1,1,3-trimethyl-	6.05	0.339	J N
3728-55-0	1-Ethyl-3-methylcyclohexane (c,t)	6.71	0.326	J N

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 424

Lab Sample ID: 490-116536-5 Date Sampled: 11/17/2016 0945
Client Matrix: Soil % Moisture: 16.0 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390503	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388496	Lab File ID:	112916-38.D
Dilution:	1.0			Initial Weight/Volume:	4.331 g
Analysis Date:	11/30/2016 0334			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0945				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1,2-Trichloroethane		4.84		0.109	0.391

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	105		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 425

Lab Sample ID: 490-116536-6 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 12.2 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389632	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112516-23.D
Dilution:	1.0			Initial Weight/Volume:	6.729 g
Analysis Date:	11/25/2016 2319			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1045				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.177		0.00711	0.0423
Benzene		0.00199		0.000567	0.00169
Bromobenzene		0.000610	U	0.000610	0.00169
Bromochloromethane		0.000466	U *	0.000466	0.00169
Bromodichloromethane		0.000466	U *	0.000466	0.00169
Bromoform		0.000466	U *	0.000466	0.00169
Bromomethane		0.00102	U	0.00102	0.00169
2-Butanone (MEK)		0.0133	J	0.00432	0.0423
Carbon disulfide		0.00305	U	0.00305	0.00423
Carbon tetrachloride		0.000567	U	0.000567	0.00169
Chlorobenzene		0.000567	U	0.000567	0.00169
Chloroethane		0.00161	U	0.00161	0.00423
Chloroform		0.000567	U *	0.000567	0.00169
Chloromethane		0.000567	U	0.000567	0.00169
cis-1,2-Dichloroethene		0.000567	U *	0.000567	0.00169
cis-1,3-Dichloropropene		0.000567	U	0.000567	0.00169
Dibromochloromethane		0.000288	U *	0.000288	0.00169
1,2-Dibromo-3-chloropropane		0.000593	U	0.000593	0.00423
1,2-Dibromoethane		0.000847	U *	0.000847	0.00169
1,2-Dichlorobenzene		0.000288	U	0.000288	0.00169
1,3-Dichlorobenzene		0.000567	U	0.000567	0.00169
1,4-Dichlorobenzene		0.000567	U	0.000567	0.00169
Dichlorodifluoromethane		0.000847	U	0.000847	0.00169
1,1-Dichloroethane		0.000567	U	0.000567	0.00169
1,2-Dichloroethane		0.000567	U *	0.000567	0.00169
1,1-Dichloroethene		0.000483	U	0.000483	0.00169
1,2-Dichloropropane		0.000796	U *	0.000796	0.00169
1,3-Dichloropropane		0.000796	U *	0.000796	0.00169
2,2-Dichloropropane		0.000567	U	0.000567	0.00169
1,1-Dichloropropene		0.000432	U	0.000432	0.00169
Ethylbenzene		0.000567	U	0.000567	0.00169
Hexachlorobutadiene		0.000965	U	0.000965	0.00423
2-Hexanone		0.0141	U	0.0141	0.0423
Iodomethane		0.00567	U	0.00567	0.0169
Isopropylbenzene		0.000347	U	0.000347	0.00169
Methylene bromide		0.000474	U *	0.000474	0.00169
Methylene Chloride		0.000728	U *	0.000728	0.00847
4-Methyl-2-pentanone (MIBK)		0.00161	U	0.00161	0.0423
Methyl tert butyl ether		0.000813	U	0.000813	0.00169
m,p-Xylene		0.000474	U	0.000474	0.00339
Naphthalene		0.00144	U	0.00144	0.00423
n-Butylbenzene		0.000830	U	0.000830	0.00169
N-Propylbenzene		0.000567	U	0.000567	0.00169
o-Chlorotoluene		0.000754	U	0.000754	0.00169
o-Xylene		0.000567	U	0.000567	0.00169
p-Chlorotoluene		0.000711	U	0.000711	0.00169

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 425

Lab Sample ID: 490-116536-6 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 12.2 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389632	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112516-23.D
Dilution:	1.0			Initial Weight/Volume:	6.729 g
Analysis Date:	11/25/2016 2319			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1045				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000567	U	0.000567	0.00169
sec-Butylbenzene		0.000567	U	0.000567	0.00169
Styrene		0.000931	U	0.000931	0.00169
tert-Butylbenzene		0.000762	U	0.000762	0.00169
1,1,1,2-Tetrachloroethane		0.000567	U	0.000567	0.00169
1,1,2,2-Tetrachloroethane		0.000847	U *	0.000847	0.00169
Tetrachloroethene		0.000618	U	0.000618	0.00169
Toluene		0.000627	U	0.000627	0.00169
trans-1,2-Dichloroethene		0.000567	U	0.000567	0.00169
trans-1,3-Dichloropropene		0.000567	U	0.000567	0.00169
1,2,3-Trichlorobenzene		0.000322	U	0.000322	0.00169
1,2,4-Trichlorobenzene		0.000567	U	0.000567	0.00169
1,1,1-Trichloroethane		0.000779	U	0.000779	0.00169
1,1,2-Trichloroethane		0.00119	U *	0.00119	0.00423
Trichloroethene		0.000813	U	0.000813	0.00169
Trichlorofluoromethane		0.000847	U	0.000847	0.00169
1,2,3-Trichloropropane		0.000466	U *	0.000466	0.00169
1,2,4-Trimethylbenzene		0.000900	J	0.000847	0.00169
1,3,5-Trimethylbenzene		0.000635	U	0.000635	0.00169
Vinyl acetate		0.00373	U *	0.00373	0.0169
Vinyl chloride		0.000931	U	0.000931	0.00169
Xylenes (total)		0.00104	U	0.00104	0.00508

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 425

Lab Sample ID: 490-116536-6 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 12.2 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389632	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112516-23.D
Dilution:	1.0			Initial Weight/Volume:	6.729 g
Analysis Date:	11/25/2016 2319			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1045				

Tentatively Identified Compounds **Number TIC's Found: 7**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
79-20-9	Methyl acetate	2.46	0.187	
110-54-3	Hexane	2.85	0.000718	J
110-82-7	Cyclohexane	3.69	0.00299	J
822-50-4	Cyclopentane, 1,2-dimethyl-, trans-	4.00	0.00508	J N
108-87-2	Methylcyclohexane	4.48	0.0113	
541-05-9	Cyclotrisiloxane, hexamethyl-	5.60	0.00682	J N
90-12-0	1-Methylnaphthalene	12.38	0.00356	J B *

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 428

Lab Sample ID: 490-116536-7 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 8.3 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389632	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112516-24.D
Dilution:	1.0			Initial Weight/Volume:	5.244 g
Analysis Date:	11/25/2016 2349			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1045				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.238		0.00873	0.0520
Benzene		0.000697	U	0.000697	0.00208
Bromobenzene		0.000748	U	0.000748	0.00208
Bromochloromethane		0.000572	U *	0.000572	0.00208
Bromodichloromethane		0.000572	U *	0.000572	0.00208
Bromoform		0.000572	U *	0.000572	0.00208
Bromomethane		0.00125	U	0.00125	0.00208
2-Butanone (MEK)		0.0248	J	0.00530	0.0520
Carbon disulfide		0.00374	U	0.00374	0.00520
Carbon tetrachloride		0.000697	U	0.000697	0.00208
Chlorobenzene		0.000697	U	0.000697	0.00208
Chloroethane		0.00198	U	0.00198	0.00520
Chloroform		0.000697	U *	0.000697	0.00208
Chloromethane		0.000697	U	0.000697	0.00208
cis-1,2-Dichloroethene		0.000697	U *	0.000697	0.00208
cis-1,3-Dichloropropene		0.000697	U	0.000697	0.00208
Dibromochloromethane		0.000353	U *	0.000353	0.00208
1,2-Dibromo-3-chloropropane		0.000728	U	0.000728	0.00520
1,2-Dibromoethane		0.00104	U *	0.00104	0.00208
1,2-Dichlorobenzene		0.000353	U	0.000353	0.00208
1,3-Dichlorobenzene		0.000697	U	0.000697	0.00208
1,4-Dichlorobenzene		0.000697	U	0.000697	0.00208
Dichlorodifluoromethane		0.00104	U	0.00104	0.00208
1,1-Dichloroethane		0.000697	U	0.000697	0.00208
1,2-Dichloroethane		0.000697	U *	0.000697	0.00208
1,1-Dichloroethene		0.000593	U	0.000593	0.00208
1,2-Dichloropropane		0.000977	U *	0.000977	0.00208
1,3-Dichloropropane		0.000977	U *	0.000977	0.00208
2,2-Dichloropropane		0.000697	U	0.000697	0.00208
1,1-Dichloropropene		0.000530	U	0.000530	0.00208
Ethylbenzene		0.000697	U	0.000697	0.00208
Hexachlorobutadiene		0.00119	U	0.00119	0.00520
2-Hexanone		0.0174	U	0.0174	0.0520
Iodomethane		0.00697	U	0.00697	0.0208
Isopropylbenzene		0.000426	U	0.000426	0.00208
Methylene bromide		0.000582	U *	0.000582	0.00208
Methylene Chloride		0.000894	U *	0.000894	0.0104
4-Methyl-2-pentanone (MIBK)		0.00198	U	0.00198	0.0520
Methyl tert butyl ether		0.000998	U	0.000998	0.00208
m,p-Xylene		0.000582	U	0.000582	0.00416
Naphthalene		0.00177	U	0.00177	0.00520
n-Butylbenzene		0.00102	U	0.00102	0.00208
N-Propylbenzene		0.000697	U	0.000697	0.00208
o-Chlorotoluene		0.000925	U	0.000925	0.00208
o-Xylene		0.000697	U	0.000697	0.00208
p-Chlorotoluene		0.000873	U	0.000873	0.00208

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 428

Lab Sample ID: 490-116536-7 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 8.3 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389632	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112516-24.D
Dilution:	1.0			Initial Weight/Volume:	5.244 g
Analysis Date:	11/25/2016 2349			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1045				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000697	U	0.000697	0.00208
sec-Butylbenzene		0.000697	U	0.000697	0.00208
Styrene		0.00114	U	0.00114	0.00208
tert-Butylbenzene		0.000936	U	0.000936	0.00208
1,1,1,2-Tetrachloroethane		0.000697	U	0.000697	0.00208
1,1,2,2-Tetrachloroethane		0.00104	U *	0.00104	0.00208
Tetrachloroethene		0.000759	U	0.000759	0.00208
Toluene		0.000769	U	0.000769	0.00208
trans-1,2-Dichloroethene		0.000697	U	0.000697	0.00208
trans-1,3-Dichloropropene		0.000697	U	0.000697	0.00208
1,2,3-Trichlorobenzene		0.000395	U	0.000395	0.00208
1,2,4-Trichlorobenzene		0.000697	U	0.000697	0.00208
1,1,1-Trichloroethane		0.000956	U	0.000956	0.00208
1,1,2-Trichloroethane		0.00146	U *	0.00146	0.00520
Trichloroethene		0.000998	U	0.000998	0.00208
Trichlorofluoromethane		0.00104	U	0.00104	0.00208
1,2,3-Trichloropropane		0.000572	U *	0.000572	0.00208
1,2,4-Trimethylbenzene		0.00119	J	0.00104	0.00208
1,3,5-Trimethylbenzene		0.000780	U	0.000780	0.00208
Vinyl acetate		0.00457	U *	0.00457	0.0208
Vinyl chloride		0.00114	U	0.00114	0.00208
Xylenes (total)		0.00128	U	0.00128	0.00624

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	109		70 - 130
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 428

Lab Sample ID: 490-116536-7 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 8.3 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389632	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112516-24.D
Dilution:	1.0			Initial Weight/Volume:	5.244 g
Analysis Date:	11/25/2016 2349			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1045				

Tentatively Identified Compounds **Number TIC's Found: 8**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
67-63-0	Isopropyl alcohol	2.35	0.0430	J
79-20-9	Methyl acetate	2.46	0.0222	
110-54-3	Hexane	2.86	0.000691	J
110-82-7	Cyclohexane	3.69	0.00119	J
108-87-2	Methylcyclohexane	4.48	0.00510	J
541-05-9	Cyclotrisiloxane, hexamethyl-	5.60	0.00870	J N
556-67-2	Cyclotetrasiloxane, octamethyl-	7.72	0.0110	J N
90-12-0	1-Methylnaphthalene	12.38	0.00281	J B *

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 429

Lab Sample ID: 490-116536-8 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 8.1 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390023	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112816-10.D
Dilution:	1.0			Initial Weight/Volume:	6.497 g
Analysis Date:	11/28/2016 1330			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1045				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.315		0.00703	0.0419
Benzene		0.00117	J	0.000561	0.00167
Bromobenzene		0.000603	U	0.000603	0.00167
Bromochloromethane		0.000460	U	0.000460	0.00167
Bromodichloromethane		0.000460	U	0.000460	0.00167
Bromoform		0.000460	U	0.000460	0.00167
Bromomethane		0.00100	U	0.00100	0.00167
2-Butanone (MEK)		0.0362	J	0.00427	0.0419
Carbon disulfide		0.00301	U	0.00301	0.00419
Carbon tetrachloride		0.000561	U	0.000561	0.00167
Chlorobenzene		0.000561	U	0.000561	0.00167
Chloroethane		0.00159	U	0.00159	0.00419
Chloroform		0.000561	U	0.000561	0.00167
Chloromethane		0.000561	U	0.000561	0.00167
cis-1,2-Dichloroethene		0.000561	U	0.000561	0.00167
cis-1,3-Dichloropropene		0.000561	U	0.000561	0.00167
Dibromochloromethane		0.000285	U	0.000285	0.00167
1,2-Dibromo-3-chloropropane		0.000586	U	0.000586	0.00419
1,2-Dibromoethane		0.000837	U	0.000837	0.00167
1,2-Dichlorobenzene		0.000285	U	0.000285	0.00167
1,3-Dichlorobenzene		0.000561	U	0.000561	0.00167
1,4-Dichlorobenzene		0.000561	U	0.000561	0.00167
Dichlorodifluoromethane		0.000837	U	0.000837	0.00167
1,1-Dichloroethane		0.000561	U	0.000561	0.00167
1,2-Dichloroethane		0.000561	U	0.000561	0.00167
1,1-Dichloroethene		0.000477	U	0.000477	0.00167
1,2-Dichloropropane		0.000787	U	0.000787	0.00167
1,3-Dichloropropane		0.000787	U	0.000787	0.00167
2,2-Dichloropropane		0.000561	U	0.000561	0.00167
1,1-Dichloropropene		0.000427	U	0.000427	0.00167
Ethylbenzene		0.000561	U	0.000561	0.00167
Hexachlorobutadiene		0.000954	U	0.000954	0.00419
2-Hexanone		0.0140	U	0.0140	0.0419
Iodomethane		0.00561	U	0.00561	0.0167
Isopropylbenzene		0.000343	U	0.000343	0.00167
Methylene bromide		0.000469	U	0.000469	0.00167
Methylene Chloride		0.000720	U	0.000720	0.00837
4-Methyl-2-pentanone (MIBK)		0.00159	U	0.00159	0.0419
Methyl tert butyl ether		0.000804	U	0.000804	0.00167
m,p-Xylene		0.000469	U	0.000469	0.00335
Naphthalene		0.00142	U	0.00142	0.00419
n-Butylbenzene		0.000820	U	0.000820	0.00167
N-Propylbenzene		0.000561	U	0.000561	0.00167
o-Chlorotoluene		0.000745	U	0.000745	0.00167
o-Xylene		0.000561	U	0.000561	0.00167
p-Chlorotoluene		0.000703	U	0.000703	0.00167

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 429

Lab Sample ID: 490-116536-8 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 8.1 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390023	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112816-10.D
Dilution:	1.0			Initial Weight/Volume:	6.497 g
Analysis Date:	11/28/2016 1330			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1045				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000561	U	0.000561	0.00167
sec-Butylbenzene		0.000561	U	0.000561	0.00167
Styrene		0.000921	U	0.000921	0.00167
tert-Butylbenzene		0.000753	U	0.000753	0.00167
1,1,1,2-Tetrachloroethane		0.000561	U	0.000561	0.00167
1,1,2,2-Tetrachloroethane		0.000837	U	0.000837	0.00167
Tetrachloroethene		0.000611	U	0.000611	0.00167
Toluene		0.000620	U	0.000620	0.00167
trans-1,2-Dichloroethene		0.000561	U	0.000561	0.00167
trans-1,3-Dichloropropene		0.000561	U	0.000561	0.00167
1,2,3-Trichlorobenzene		0.000318	U	0.000318	0.00167
1,2,4-Trichlorobenzene		0.000561	U	0.000561	0.00167
1,1,1-Trichloroethane		0.000770	U	0.000770	0.00167
1,1,2-Trichloroethane		0.00117	U	0.00117	0.00419
Trichloroethene		0.000804	U	0.000804	0.00167
Trichlorofluoromethane		0.000837	U	0.000837	0.00167
1,2,3-Trichloropropane		0.000460	U	0.000460	0.00167
1,2,4-Trimethylbenzene		0.00181		0.000837	0.00167
1,3,5-Trimethylbenzene		0.000628	U	0.000628	0.00167
Vinyl acetate		0.00368	U	0.00368	0.0167
Vinyl chloride		0.000921	U	0.000921	0.00167
Xylenes (total)		0.00103	U	0.00103	0.00502

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	117		70 - 130
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 429

Lab Sample ID: 490-116536-8 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 8.1 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390023	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112816-10.D
Dilution:	1.0			Initial Weight/Volume:	6.497 g
Analysis Date:	11/28/2016 1330			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1045				

Tentatively Identified Compounds **Number TIC's Found: 5**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
67-63-0	Isopropyl alcohol	2.37	0.0194	J
79-20-9	Methyl acetate	2.49	0.00725	J
110-54-3	Hexane	2.88	0.00243	J
541-05-9	Cyclotrisiloxane, hexamethyl-	5.63	0.00547	J N
91-57-6	2-Methylnaphthalene	12.24	0.00231	J B

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 430

Lab Sample ID: 490-116539-1 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 13.6 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390023	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112816-11.D
Dilution:	1.0			Initial Weight/Volume:	4.348 g
Analysis Date:	11/28/2016 1400			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1300				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.502		0.0112	0.0666
Benzene		0.00206	J	0.000892	0.00266
Bromobenzene		0.000959	U	0.000959	0.00266
Bromochloromethane		0.000732	U	0.000732	0.00266
Bromodichloromethane		0.000732	U	0.000732	0.00266
Bromoform		0.000732	U	0.000732	0.00266
Bromomethane		0.00160	U	0.00160	0.00266
2-Butanone (MEK)		0.0333	J	0.00679	0.0666
Carbon disulfide		0.00479	U	0.00479	0.00666
Carbon tetrachloride		0.000892	U	0.000892	0.00266
Chlorobenzene		0.000892	U	0.000892	0.00266
Chloroethane		0.00253	U	0.00253	0.00666
Chloroform		0.000892	U	0.000892	0.00266
Chloromethane		0.000892	U	0.000892	0.00266
cis-1,2-Dichloroethene		0.000892	U	0.000892	0.00266
cis-1,3-Dichloropropene		0.000892	U	0.000892	0.00266
Dibromochloromethane		0.000453	U	0.000453	0.00266
1,2-Dibromo-3-chloropropane		0.000932	U	0.000932	0.00666
1,2-Dibromoethane		0.00133	U	0.00133	0.00266
1,2-Dichlorobenzene		0.000453	U	0.000453	0.00266
1,3-Dichlorobenzene		0.000892	U	0.000892	0.00266
1,4-Dichlorobenzene		0.000892	U	0.000892	0.00266
Dichlorodifluoromethane		0.00133	U	0.00133	0.00266
1,1-Dichloroethane		0.000892	U	0.000892	0.00266
1,2-Dichloroethane		0.000892	U	0.000892	0.00266
1,1-Dichloroethene		0.000759	U	0.000759	0.00266
1,2-Dichloropropane		0.00125	U	0.00125	0.00266
1,3-Dichloropropane		0.00125	U	0.00125	0.00266
2,2-Dichloropropane		0.000892	U	0.000892	0.00266
1,1-Dichloropropene		0.000679	U	0.000679	0.00266
Ethylbenzene		0.000892	U	0.000892	0.00266
Hexachlorobutadiene		0.00152	U	0.00152	0.00666
2-Hexanone		0.0222	U	0.0222	0.0666
Iodomethane		0.00892	U	0.00892	0.0266
Isopropylbenzene		0.000546	U	0.000546	0.00266
Methylene bromide		0.000746	U	0.000746	0.00266
Methylene Chloride		0.00114	U	0.00114	0.0133
4-Methyl-2-pentanone (MIBK)		0.00253	U	0.00253	0.0666
Methyl tert butyl ether		0.00128	U	0.00128	0.00266
m,p-Xylene		0.00213	J	0.000746	0.00533
Naphthalene		0.00226	U	0.00226	0.00666
n-Butylbenzene		0.00130	U	0.00130	0.00266
N-Propylbenzene		0.000892	U	0.000892	0.00266
o-Chlorotoluene		0.00118	U	0.00118	0.00266
o-Xylene		0.000892	U	0.000892	0.00266
p-Chlorotoluene		0.00112	U	0.00112	0.00266

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 430

Lab Sample ID: 490-116539-1 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 13.6 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390023	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112816-11.D
Dilution:	1.0			Initial Weight/Volume:	4.348 g
Analysis Date:	11/28/2016 1400			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1300				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000892	U	0.000892	0.00266
sec-Butylbenzene		0.000892	U	0.000892	0.00266
Styrene		0.00146	U	0.00146	0.00266
tert-Butylbenzene		0.00120	U	0.00120	0.00266
1,1,1,2-Tetrachloroethane		0.000892	U	0.000892	0.00266
1,1,2,2-Tetrachloroethane		0.00133	U	0.00133	0.00266
Tetrachloroethene		0.000972	U	0.000972	0.00266
Toluene		0.00344		0.000985	0.00266
trans-1,2-Dichloroethene		0.000892	U	0.000892	0.00266
trans-1,3-Dichloropropene		0.000892	U	0.000892	0.00266
1,2,3-Trichlorobenzene		0.000506	U	0.000506	0.00266
1,2,4-Trichlorobenzene		0.000892	U	0.000892	0.00266
1,1,1-Trichloroethane		0.00122	U	0.00122	0.00266
1,1,2-Trichloroethane		0.00186	U	0.00186	0.00666
Trichloroethene		0.00128	U	0.00128	0.00266
Trichlorofluoromethane		0.00133	U	0.00133	0.00266
1,2,3-Trichloropropane		0.000732	U	0.000732	0.00266
1,2,4-Trimethylbenzene		0.00183	J	0.00133	0.00266
1,3,5-Trimethylbenzene		0.000998	U	0.000998	0.00266
Vinyl acetate		0.00586	U	0.00586	0.0266
Vinyl chloride		0.00146	U	0.00146	0.00266
Xylenes (total)		0.00213	J	0.00164	0.00799

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
Dibromofluoromethane (Surr)	114		70 - 130
1,2-Dichloroethane-d4 (Surr)	112		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 430

Lab Sample ID: 490-116539-1 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 13.6 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390023	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112816-11.D
Dilution:	1.0			Initial Weight/Volume:	4.348 g
Analysis Date:	11/28/2016 1400			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1300				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
109-66-0	Pentane	2.00	0.00718	J N
67-63-0	Isopropyl alcohol	2.30	0.152	
79-20-9	Methyl acetate	2.48	0.228	
110-54-3	Hexane	2.88	0.00782	J
78-83-1	Isobutyl alcohol	3.78	0.0633	J
142-82-5	n-Heptane	4.07	0.00604	
108-87-2	Methylcyclohexane	4.51	0.00591	J
541-05-9	Cyclotrisiloxane, hexamethyl-	5.63	0.0105	J N
556-67-2	Cyclotetrasiloxane, octamethyl-	7.75	0.00801	J N
91-57-6	2-Methylnaphthalene	12.24	0.00415	J B

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 427

Lab Sample ID: 490-116539-2 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 11.4 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390023	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112816-12.D
Dilution:	1.0			Initial Weight/Volume:	4.243 g
Analysis Date:	11/28/2016 1429			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1045				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.453		0.0112	0.0665
Benzene		0.00134	J	0.000891	0.00266
Bromobenzene		0.000957	U	0.000957	0.00266
Bromochloromethane		0.000731	U	0.000731	0.00266
Bromodichloromethane		0.000731	U	0.000731	0.00266
Bromoform		0.000731	U	0.000731	0.00266
Bromomethane		0.00160	U	0.00160	0.00266
2-Butanone (MEK)		0.0426	J	0.00678	0.0665
Carbon disulfide		0.00479	U	0.00479	0.00665
Carbon tetrachloride		0.000891	U	0.000891	0.00266
Chlorobenzene		0.000891	U	0.000891	0.00266
Chloroethane		0.00253	U	0.00253	0.00665
Chloroform		0.000891	U	0.000891	0.00266
Chloromethane		0.000891	U	0.000891	0.00266
cis-1,2-Dichloroethene		0.000891	U	0.000891	0.00266
cis-1,3-Dichloropropene		0.000891	U	0.000891	0.00266
Dibromochloromethane		0.000452	U	0.000452	0.00266
1,2-Dibromo-3-chloropropane		0.000931	U	0.000931	0.00665
1,2-Dibromoethane		0.00133	U	0.00133	0.00266
1,2-Dichlorobenzene		0.000452	U	0.000452	0.00266
1,3-Dichlorobenzene		0.000891	U	0.000891	0.00266
1,4-Dichlorobenzene		0.000891	U	0.000891	0.00266
Dichlorodifluoromethane		0.00133	U	0.00133	0.00266
1,1-Dichloroethane		0.000891	U	0.000891	0.00266
1,2-Dichloroethane		0.000891	U	0.000891	0.00266
1,1-Dichloroethene		0.000758	U	0.000758	0.00266
1,2-Dichloropropane		0.00125	U	0.00125	0.00266
1,3-Dichloropropane		0.00125	U	0.00125	0.00266
2,2-Dichloropropane		0.000891	U	0.000891	0.00266
1,1-Dichloropropene		0.000678	U	0.000678	0.00266
Ethylbenzene		0.000891	U	0.000891	0.00266
Hexachlorobutadiene		0.00152	U	0.00152	0.00665
2-Hexanone		0.0222	U	0.0222	0.0665
Iodomethane		0.00891	U	0.00891	0.0266
Isopropylbenzene		0.000545	U	0.000545	0.00266
Methylene bromide		0.000745	U	0.000745	0.00266
Methylene Chloride		0.00114	U	0.00114	0.0133
4-Methyl-2-pentanone (MIBK)		0.00253	U	0.00253	0.0665
Methyl tert butyl ether		0.00128	U	0.00128	0.00266
m,p-Xylene		0.000745	U	0.000745	0.00532
Naphthalene		0.00226	U	0.00226	0.00665
n-Butylbenzene		0.00130	U	0.00130	0.00266
N-Propylbenzene		0.000891	U	0.000891	0.00266
o-Chlorotoluene		0.00118	U	0.00118	0.00266
o-Xylene		0.000891	U	0.000891	0.00266
p-Chlorotoluene		0.00112	U	0.00112	0.00266

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 427

Lab Sample ID: 490-116539-2 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 11.4 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390023	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112816-12.D
Dilution:	1.0			Initial Weight/Volume:	4.243 g
Analysis Date:	11/28/2016 1429			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1045				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000891	U	0.000891	0.00266
sec-Butylbenzene		0.000891	U	0.000891	0.00266
Styrene		0.00146	U	0.00146	0.00266
tert-Butylbenzene		0.00120	U	0.00120	0.00266
1,1,1,2-Tetrachloroethane		0.000891	U	0.000891	0.00266
1,1,2,2-Tetrachloroethane		0.00133	U	0.00133	0.00266
Tetrachloroethene		0.000971	U	0.000971	0.00266
Toluene		0.000984	U	0.000984	0.00266
trans-1,2-Dichloroethene		0.000891	U	0.000891	0.00266
trans-1,3-Dichloropropene		0.000891	U	0.000891	0.00266
1,2,3-Trichlorobenzene		0.000505	U	0.000505	0.00266
1,2,4-Trichlorobenzene		0.000891	U	0.000891	0.00266
1,1,1-Trichloroethane		0.00122	U	0.00122	0.00266
1,1,2-Trichloroethane		0.00186	U	0.00186	0.00665
Trichloroethene		0.00128	U	0.00128	0.00266
Trichlorofluoromethane		0.00133	U	0.00133	0.00266
1,2,3-Trichloropropane		0.000731	U	0.000731	0.00266
1,2,4-Trimethylbenzene		0.00185	J	0.00133	0.00266
1,3,5-Trimethylbenzene		0.000997	U	0.000997	0.00266
Vinyl acetate		0.00585	U	0.00585	0.0266
Vinyl chloride		0.00146	U	0.00146	0.00266
Xylenes (total)		0.00164	U	0.00164	0.00798

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	115		70 - 130
1,2-Dichloroethane-d4 (Surr)	112		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 427

Lab Sample ID: 490-116539-2 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 11.4 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390023	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112816-12.D
Dilution:	1.0			Initial Weight/Volume:	4.243 g
Analysis Date:	11/28/2016 1429			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1045				

Tentatively Identified Compounds **Number TIC's Found: 1**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
541-05-9	Cyclotrisiloxane, hexamethyl-	5.63	0.0100	J N

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 433

Lab Sample ID: 490-116539-3 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 8.0 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390023	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112816-13.D
Dilution:	1.0			Initial Weight/Volume:	4.233 g
Analysis Date:	11/28/2016 1459			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1300				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.210		0.0108	0.0642
Benzene		0.000860	U	0.000860	0.00257
Bromobenzene		0.000924	U	0.000924	0.00257
Bromochloromethane		0.000706	U	0.000706	0.00257
Bromodichloromethane		0.00280		0.000706	0.00257
Bromoform		0.000706	U	0.000706	0.00257
Bromomethane		0.00154	U	0.00154	0.00257
2-Butanone (MEK)		0.0264	J	0.00655	0.0642
Carbon disulfide		0.00462	U	0.00462	0.00642
Carbon tetrachloride		0.000860	U	0.000860	0.00257
Chlorobenzene		0.000860	U	0.000860	0.00257
Chloroethane		0.00244	U	0.00244	0.00642
Chloroform		0.000860	U	0.000860	0.00257
Chloromethane		0.000860	U	0.000860	0.00257
cis-1,2-Dichloroethene		0.000860	U	0.000860	0.00257
cis-1,3-Dichloropropene		0.000860	U	0.000860	0.00257
Dibromochloromethane		0.000436	U	0.000436	0.00257
1,2-Dibromo-3-chloropropane		0.000898	U	0.000898	0.00642
1,2-Dibromoethane		0.00128	U	0.00128	0.00257
1,2-Dichlorobenzene		0.000436	U	0.000436	0.00257
1,3-Dichlorobenzene		0.000860	U	0.000860	0.00257
1,4-Dichlorobenzene		0.000860	U	0.000860	0.00257
Dichlorodifluoromethane		0.00128	U	0.00128	0.00257
1,1-Dichloroethane		0.000860	U	0.000860	0.00257
1,2-Dichloroethane		0.000860	U	0.000860	0.00257
1,1-Dichloroethene		0.000732	U	0.000732	0.00257
1,2-Dichloropropane		0.00121	U	0.00121	0.00257
1,3-Dichloropropane		0.00121	U	0.00121	0.00257
2,2-Dichloropropane		0.000860	U	0.000860	0.00257
1,1-Dichloropropene		0.000655	U	0.000655	0.00257
Ethylbenzene		0.000860	U	0.000860	0.00257
Hexachlorobutadiene		0.00146	U	0.00146	0.00642
2-Hexanone		0.0214	U	0.0214	0.0642
Iodomethane		0.00860	U	0.00860	0.0257
Isopropylbenzene		0.000526	U	0.000526	0.00257
Methylene bromide		0.000719	U	0.000719	0.00257
Methylene Chloride		0.00110	U	0.00110	0.0128
4-Methyl-2-pentanone (MIBK)		0.00244	U	0.00244	0.0642
Methyl tert butyl ether		0.00123	U	0.00123	0.00257
m,p-Xylene		0.000719	U	0.000719	0.00513
Naphthalene		0.00218	U	0.00218	0.00642
n-Butylbenzene		0.00126	U	0.00126	0.00257
N-Propylbenzene		0.000860	U	0.000860	0.00257
o-Chlorotoluene		0.00114	U	0.00114	0.00257
o-Xylene		0.000860	U	0.000860	0.00257
p-Chlorotoluene		0.00108	U	0.00108	0.00257

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 433

Lab Sample ID: 490-116539-3 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 8.0 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390023	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112816-13.D
Dilution:	1.0			Initial Weight/Volume:	4.233 g
Analysis Date:	11/28/2016 1459			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1300				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000860	U	0.000860	0.00257
sec-Butylbenzene		0.000860	U	0.000860	0.00257
Styrene		0.00141	U	0.00141	0.00257
tert-Butylbenzene		0.00195	J	0.00116	0.00257
1,1,1,2-Tetrachloroethane		0.000860	U	0.000860	0.00257
1,1,2,2-Tetrachloroethane		0.00128	U	0.00128	0.00257
Tetrachloroethene		0.000937	U	0.000937	0.00257
Toluene		0.000950	U	0.000950	0.00257
trans-1,2-Dichloroethene		0.000860	U	0.000860	0.00257
trans-1,3-Dichloropropene		0.000860	U	0.000860	0.00257
1,2,3-Trichlorobenzene		0.000488	U	0.000488	0.00257
1,2,4-Trichlorobenzene		0.000860	U	0.000860	0.00257
1,1,1-Trichloroethane		0.00118	U	0.00118	0.00257
1,1,2-Trichloroethane		0.0573		0.00180	0.00642
Trichloroethene		0.00123	U	0.00123	0.00257
Trichlorofluoromethane		0.00128	U	0.00128	0.00257
1,2,3-Trichloropropane		0.000706	U	0.000706	0.00257
1,2,4-Trimethylbenzene		0.00128	U	0.00128	0.00257
1,3,5-Trimethylbenzene		0.000963	U	0.000963	0.00257
Vinyl acetate		0.00565	U	0.00565	0.0257
Vinyl chloride		0.00141	U	0.00141	0.00257
Xylenes (total)		0.00158	U	0.00158	0.00770

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	108		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 433

Lab Sample ID: 490-116539-3 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 8.0 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390023	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112816-13.D
Dilution:	1.0			Initial Weight/Volume:	4.233 g
Analysis Date:	11/28/2016 1459			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1300				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
67-63-0	Isopropyl alcohol	2.37	0.0514	J
79-20-9	Methyl acetate	2.48	0.159	
590-66-9	Cyclohexane, 1,1-dimethyl-	5.40	0.0215	J N
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.55	0.0599	J N
2207-01-4	Cyclohexane, 1,2-dimethyl-, cis-	5.99	0.0226	J N
3073-66-3	Cyclohexane, 1,1,3-trimethyl-	6.08	0.0619	J N
2234-75-5	Cyclohexane, 1,2,4-trimethyl-	6.27	0.0510	J N
1678-81-5	Cyclohexane, 1,2,3-trimethyl-, (1.alpha.,2.beta.,3.alpha.)-	6.61	0.0210	J N
3282-53-9	Cyclohexene, 1-butyl-	7.93	0.0263	J N
91-17-8	Naphthalene, decahydro-	9.03	0.0525	J N

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 431

Lab Sample ID: 490-116539-4 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 10.2 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390023	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112816-14.D
Dilution:	1.0			Initial Weight/Volume:	5.736 g
Analysis Date:	11/28/2016 1529			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1300				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.186		0.00815	0.0485
Benzene		0.000650	U	0.000650	0.00194
Bromobenzene		0.000699	U	0.000699	0.00194
Bromochloromethane		0.000534	U	0.000534	0.00194
Bromodichloromethane		0.000534	U	0.000534	0.00194
Bromoform		0.000534	U	0.000534	0.00194
Bromomethane		0.00116	U	0.00116	0.00194
2-Butanone (MEK)		0.0102	J	0.00495	0.0485
Carbon disulfide		0.00418	J	0.00349	0.00485
Carbon tetrachloride		0.000650	U	0.000650	0.00194
Chlorobenzene		0.000650	U	0.000650	0.00194
Chloroethane		0.00184	U	0.00184	0.00485
Chloroform		0.000650	U	0.000650	0.00194
Chloromethane		0.000650	U	0.000650	0.00194
cis-1,2-Dichloroethene		0.000650	U	0.000650	0.00194
cis-1,3-Dichloropropene		0.000650	U	0.000650	0.00194
Dibromochloromethane		0.000330	U	0.000330	0.00194
1,2-Dibromo-3-chloropropane		0.000679	U	0.000679	0.00485
1,2-Dibromoethane		0.000971	U	0.000971	0.00194
1,2-Dichlorobenzene		0.000330	U	0.000330	0.00194
1,3-Dichlorobenzene		0.000650	U	0.000650	0.00194
1,4-Dichlorobenzene		0.000650	U	0.000650	0.00194
Dichlorodifluoromethane		0.000971	U	0.000971	0.00194
1,1-Dichloroethane		0.000650	U	0.000650	0.00194
1,2-Dichloroethane		0.000650	U	0.000650	0.00194
1,1-Dichloroethene		0.000553	U	0.000553	0.00194
1,2-Dichloropropane		0.000912	U	0.000912	0.00194
1,3-Dichloropropane		0.000912	U	0.000912	0.00194
2,2-Dichloropropane		0.000650	U	0.000650	0.00194
1,1-Dichloropropene		0.000495	U	0.000495	0.00194
Ethylbenzene		0.000650	U	0.000650	0.00194
Hexachlorobutadiene		0.00111	U	0.00111	0.00485
2-Hexanone		0.0162	U	0.0162	0.0485
Iodomethane		0.00650	U	0.00650	0.0194
Isopropylbenzene		0.000398	U	0.000398	0.00194
Methylene bromide		0.000543	U	0.000543	0.00194
Methylene Chloride		0.000835	U	0.000835	0.00971
4-Methyl-2-pentanone (MIBK)		0.00184	U	0.00184	0.0485
Methyl tert butyl ether		0.000932	U	0.000932	0.00194
m,p-Xylene		0.000543	U	0.000543	0.00388
Naphthalene		0.00165	U	0.00165	0.00485
n-Butylbenzene		0.000951	U	0.000951	0.00194
N-Propylbenzene		0.000650	U	0.000650	0.00194
o-Chlorotoluene		0.000864	U	0.000864	0.00194
o-Xylene		0.000650	U	0.000650	0.00194
p-Chlorotoluene		0.000815	U	0.000815	0.00194

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 431

Lab Sample ID: 490-116539-4 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 10.2 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390023	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112816-14.D
Dilution:	1.0			Initial Weight/Volume:	5.736 g
Analysis Date:	11/28/2016 1529			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1300				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000650	U	0.000650	0.00194
sec-Butylbenzene		0.000650	U	0.000650	0.00194
Styrene		0.00107	U	0.00107	0.00194
tert-Butylbenzene		0.000873	U	0.000873	0.00194
1,1,1,2-Tetrachloroethane		0.000650	U	0.000650	0.00194
1,1,2,2-Tetrachloroethane		0.000971	U	0.000971	0.00194
Tetrachloroethene		0.000708	U	0.000708	0.00194
Toluene		0.000718	U	0.000718	0.00194
trans-1,2-Dichloroethene		0.000650	U	0.000650	0.00194
trans-1,3-Dichloropropene		0.000650	U	0.000650	0.00194
1,2,3-Trichlorobenzene		0.000369	U	0.000369	0.00194
1,2,4-Trichlorobenzene		0.000650	U	0.000650	0.00194
1,1,1-Trichloroethane		0.000893	U	0.000893	0.00194
1,1,2-Trichloroethane		0.00136	U	0.00136	0.00485
Trichloroethene		0.000932	U	0.000932	0.00194
Trichlorofluoromethane		0.000971	U	0.000971	0.00194
1,2,3-Trichloropropane		0.000534	U	0.000534	0.00194
1,2,4-Trimethylbenzene		0.000971	U	0.000971	0.00194
1,3,5-Trimethylbenzene		0.000728	U	0.000728	0.00194
Vinyl acetate		0.00427	U	0.00427	0.0194
Vinyl chloride		0.00107	U	0.00107	0.00194
Xylenes (total)		0.00119	U	0.00119	0.00582

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	114		70 - 130
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 431

Lab Sample ID: 490-116539-4 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 10.2 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390023	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112816-14.D
Dilution:	1.0			Initial Weight/Volume:	5.736 g
Analysis Date:	11/28/2016 1529			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1300				

Tentatively Identified Compounds **Number TIC's Found: 7**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
541-05-9	Cyclotrisiloxane, hexamethyl-	5.63	0.00609	J N
556-67-2	Cyclotetrasiloxane, octamethyl-	7.75	0.00723	J N
2958-76-1	Naphthalene, decahydro-2-methyl-	9.92	0.00736	J N
17301-23-4	Undecane, 2,6-dimethyl-	10.56	0.00602	J N
26730-14-3	Tridecane, 7-methyl-	11.25	0.00825	J N
91-57-6	2-Methylnaphthalene	12.25	0.00293	J B
90-12-0	1-Methylnaphthalene	12.41	0.00217	J B

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 434

Lab Sample ID: 490-116539-5 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 10.7 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390023	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112816-15.D
Dilution:	1.0			Initial Weight/Volume:	5.341 g
Analysis Date:	11/28/2016 1558			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1300				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.370		0.00881	0.0524
Benzene		0.00224		0.000703	0.00210
Bromobenzene		0.000755	U	0.000755	0.00210
Bromochloromethane		0.000577	U	0.000577	0.00210
Bromodichloromethane		0.000577	U	0.000577	0.00210
Bromoform		0.000577	U	0.000577	0.00210
Bromomethane		0.00126	U	0.00126	0.00210
2-Butanone (MEK)		0.0387	J	0.00535	0.0524
Carbon disulfide		0.00378	U	0.00378	0.00524
Carbon tetrachloride		0.000703	U	0.000703	0.00210
Chlorobenzene		0.000703	U	0.000703	0.00210
Chloroethane		0.00199	U	0.00199	0.00524
Chloroform		0.000703	U	0.000703	0.00210
Chloromethane		0.000703	U	0.000703	0.00210
cis-1,2-Dichloroethene		0.000703	U	0.000703	0.00210
cis-1,3-Dichloropropene		0.000703	U	0.000703	0.00210
Dibromochloromethane		0.000357	U	0.000357	0.00210
1,2-Dibromo-3-chloropropane		0.000734	U	0.000734	0.00524
1,2-Dibromoethane		0.00105	U	0.00105	0.00210
1,2-Dichlorobenzene		0.000357	U	0.000357	0.00210
1,3-Dichlorobenzene		0.000703	U	0.000703	0.00210
1,4-Dichlorobenzene		0.000703	U	0.000703	0.00210
Dichlorodifluoromethane		0.00105	U	0.00105	0.00210
1,1-Dichloroethane		0.000703	U	0.000703	0.00210
1,2-Dichloroethane		0.000703	U	0.000703	0.00210
1,1-Dichloroethene		0.000598	U	0.000598	0.00210
1,2-Dichloropropane		0.000986	U	0.000986	0.00210
1,3-Dichloropropane		0.000986	U	0.000986	0.00210
2,2-Dichloropropane		0.000703	U	0.000703	0.00210
1,1-Dichloropropene		0.000535	U	0.000535	0.00210
Ethylbenzene		0.000703	U	0.000703	0.00210
Hexachlorobutadiene		0.00120	U	0.00120	0.00524
2-Hexanone		0.0175	U	0.0175	0.0524
Iodomethane		0.00703	U	0.00703	0.0210
Isopropylbenzene		0.000430	U	0.000430	0.00210
Methylene bromide		0.000587	U	0.000587	0.00210
Methylene Chloride		0.000902	U	0.000902	0.0105
4-Methyl-2-pentanone (MIBK)		0.00199	U	0.00199	0.0524
Methyl tert butyl ether		0.00101	U	0.00101	0.00210
m,p-Xylene		0.000587	U	0.000587	0.00419
Naphthalene		0.00178	U	0.00178	0.00524
n-Butylbenzene		0.00103	U	0.00103	0.00210
N-Propylbenzene		0.000703	U	0.000703	0.00210
o-Chlorotoluene		0.000933	U	0.000933	0.00210
o-Xylene		0.000703	U	0.000703	0.00210
p-Chlorotoluene		0.000881	U	0.000881	0.00210

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 434

Lab Sample ID: 490-116539-5 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 10.7 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390023	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112816-15.D
Dilution:	1.0			Initial Weight/Volume:	5.341 g
Analysis Date:	11/28/2016 1558			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1300				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000703	U	0.000703	0.00210
sec-Butylbenzene		0.000703	U	0.000703	0.00210
Styrene		0.00115	U	0.00115	0.00210
tert-Butylbenzene		0.000944	U	0.000944	0.00210
1,1,1,2-Tetrachloroethane		0.000703	U	0.000703	0.00210
1,1,2,2-Tetrachloroethane		0.00105	U	0.00105	0.00210
Tetrachloroethene		0.000766	U	0.000766	0.00210
Toluene		0.00112	J	0.000776	0.00210
trans-1,2-Dichloroethene		0.000703	U	0.000703	0.00210
trans-1,3-Dichloropropene		0.000703	U	0.000703	0.00210
1,2,3-Trichlorobenzene		0.000399	U	0.000399	0.00210
1,2,4-Trichlorobenzene		0.000703	U	0.000703	0.00210
1,1,1-Trichloroethane		0.000965	U	0.000965	0.00210
1,1,2-Trichloroethane		0.0432		0.00147	0.00524
Trichloroethene		0.00101	U	0.00101	0.00210
Trichlorofluoromethane		0.00105	U	0.00105	0.00210
1,2,3-Trichloropropane		0.000577	U	0.000577	0.00210
1,2,4-Trimethylbenzene		0.00105	U	0.00105	0.00210
1,3,5-Trimethylbenzene		0.000787	U	0.000787	0.00210
Vinyl acetate		0.00461	U	0.00461	0.0210
Vinyl chloride		0.00115	U	0.00115	0.00210
Xylenes (total)		0.00129	U	0.00129	0.00629

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 434

Lab Sample ID: 490-116539-5 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 10.7 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390023	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112816-15.D
Dilution:	1.0			Initial Weight/Volume:	5.341 g
Analysis Date:	11/28/2016 1558			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1300				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
67-63-0	Isopropyl alcohol	2.36	0.0167	J
79-20-9	Methyl acetate	2.49	0.0173	
78-83-1	Isobutyl alcohol	3.79	0.0942	J
108-87-2	Methylcyclohexane	4.52	0.0139	
79-46-9	2-Nitropropane	4.92	0.0339	
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.55	0.0217	J N
2234-75-5	Cyclohexane, 1,2,4-trimethyl-	6.28	0.0171	J N
19489-10-2	cis-1-Ethyl-3-methyl-cyclohexane	6.74	0.0234	J N
19489-10-2	cis-1-Ethyl-3-methyl-cyclohexane	7.02	0.0156	J N
1678-92-8	Cyclohexane, propyl-	7.31	0.0211	J N

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 423

Lab Sample ID: 490-116539-6 Date Sampled: 11/17/2016 0945
Client Matrix: Soil % Moisture: 17.7 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390023	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112816-16.D
Dilution:	1.0			Initial Weight/Volume:	3.411 g
Analysis Date:	11/28/2016 1628			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0945				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0900		0.0150	0.0891
Benzene		0.00260	J	0.00119	0.00356
Bromobenzene		0.00128	U	0.00128	0.00356
Bromochloromethane		0.000980	U	0.000980	0.00356
Bromodichloromethane		0.000980	U	0.000980	0.00356
Bromoform		0.000980	U	0.000980	0.00356
Bromomethane		0.00214	U	0.00214	0.00356
2-Butanone (MEK)		0.00908	U	0.00908	0.0891
Carbon disulfide		0.00641	U	0.00641	0.00891
Carbon tetrachloride		0.00119	U	0.00119	0.00356
Chlorobenzene		0.00119	U	0.00119	0.00356
Chloroethane		0.00338	U	0.00338	0.00891
Chloroform		0.00119	U	0.00119	0.00356
Chloromethane		0.00119	U	0.00119	0.00356
cis-1,2-Dichloroethene		0.00119	U	0.00119	0.00356
cis-1,3-Dichloropropene		0.00119	U	0.00119	0.00356
Dibromochloromethane		0.000606	U	0.000606	0.00356
1,2-Dibromo-3-chloropropane		0.00125	U	0.00125	0.00891
1,2-Dibromoethane		0.00178	U	0.00178	0.00356
1,2-Dichlorobenzene		0.000606	U	0.000606	0.00356
1,3-Dichlorobenzene		0.00119	U	0.00119	0.00356
1,4-Dichlorobenzene		0.00119	U	0.00119	0.00356
Dichlorodifluoromethane		0.00178	U	0.00178	0.00356
1,1-Dichloroethane		0.00119	U	0.00119	0.00356
1,2-Dichloroethane		0.00119	U	0.00119	0.00356
1,1-Dichloroethene		0.00102	U	0.00102	0.00356
1,2-Dichloropropane		0.00167	U	0.00167	0.00356
1,3-Dichloropropane		0.00167	U	0.00167	0.00356
2,2-Dichloropropane		0.00119	U	0.00119	0.00356
1,1-Dichloropropene		0.000908	U	0.000908	0.00356
Ethylbenzene		0.00119	U	0.00119	0.00356
Hexachlorobutadiene		0.00203	U	0.00203	0.00891
2-Hexanone		0.0297	U	0.0297	0.0891
Iodomethane		0.0119	U	0.0119	0.0356
Isopropylbenzene		0.000730	U	0.000730	0.00356
Methylene bromide		0.000997	U	0.000997	0.00356
Methylene Chloride		0.00153	U	0.00153	0.0178
4-Methyl-2-pentanone (MIBK)		0.00338	U	0.00338	0.0891
Methyl tert butyl ether		0.00171	U	0.00171	0.00356
m,p-Xylene		0.000997	U	0.000997	0.00712
Naphthalene		0.00303	U	0.00303	0.00891
n-Butylbenzene		0.00175	U	0.00175	0.00356
N-Propylbenzene		0.00119	U	0.00119	0.00356
o-Chlorotoluene		0.00159	U	0.00159	0.00356
o-Xylene		0.00119	U	0.00119	0.00356
p-Chlorotoluene		0.00150	U	0.00150	0.00356

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 423

Lab Sample ID: 490-116539-6 Date Sampled: 11/17/2016 0945
Client Matrix: Soil % Moisture: 17.7 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390023	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112816-16.D
Dilution:	1.0			Initial Weight/Volume:	3.411 g
Analysis Date:	11/28/2016 1628			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0945				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.00119	U	0.00119	0.00356
sec-Butylbenzene		0.00119	U	0.00119	0.00356
Styrene		0.00196	U	0.00196	0.00356
tert-Butylbenzene		0.00160	U	0.00160	0.00356
1,1,1,2-Tetrachloroethane		0.00119	U	0.00119	0.00356
1,1,2,2-Tetrachloroethane		0.00178	U	0.00178	0.00356
Tetrachloroethene		0.00130	U	0.00130	0.00356
Toluene		0.00132	U	0.00132	0.00356
trans-1,2-Dichloroethene		0.00119	U	0.00119	0.00356
trans-1,3-Dichloropropene		0.00119	U	0.00119	0.00356
1,2,3-Trichlorobenzene		0.000677	U	0.000677	0.00356
1,2,4-Trichlorobenzene		0.00119	U	0.00119	0.00356
1,1,1-Trichloroethane		0.00164	U	0.00164	0.00356
1,1,2-Trichloroethane		0.00249	U	0.00249	0.00891
Trichloroethene		0.00171	U	0.00171	0.00356
Trichlorofluoromethane		0.00178	U	0.00178	0.00356
1,2,3-Trichloropropane		0.000980	U	0.000980	0.00356
1,2,4-Trimethylbenzene		0.00178	U	0.00178	0.00356
1,3,5-Trimethylbenzene		0.00134	U	0.00134	0.00356
Vinyl acetate		0.00784	U	0.00784	0.0356
Vinyl chloride		0.00196	U	0.00196	0.00356
Xylenes (total)		0.00219	U	0.00219	0.0107

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	113		70 - 130
1,2-Dichloroethane-d4 (Surr)	112		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 423

Lab Sample ID: 490-116539-6 Date Sampled: 11/17/2016 0945
Client Matrix: Soil % Moisture: 17.7 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390023	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112816-16.D
Dilution:	1.0			Initial Weight/Volume:	3.411 g
Analysis Date:	11/28/2016 1628			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0945				

Tentatively Identified Compounds **Number TIC's Found: 6**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
67-63-0	Isopropyl alcohol	2.38	0.0423	J
79-20-9	Methyl acetate	2.49	0.150	
110-54-3	Hexane	2.88	0.00230	J
110-82-7	Cyclohexane	3.72	0.00168	J
108-87-2	Methylcyclohexane	4.51	0.00277	J
541-05-9	Cyclotrisiloxane, hexamethyl-	5.63	0.00955	J N

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 426

Lab Sample ID: 490-116539-7 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 10.6 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C Analysis Batch: 490-390023 Instrument ID: HP69
Prep Method: 5035A Prep Batch: 490-388503 Lab File ID: 112816-17.D
Dilution: 1.0 Initial Weight/Volume: 6.124 g
Analysis Date: 11/28/2016 1657 Final Weight/Volume: 5.0 mL
Prep Date: 11/17/2016 1045

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.584		0.00768	0.0457
Benzene		0.00293		0.000612	0.00183
Bromobenzene		0.000658	U	0.000658	0.00183
Bromochloromethane		0.000503	U	0.000503	0.00183
Bromodichloromethane		0.000503	U	0.000503	0.00183
Bromoform		0.000503	U	0.000503	0.00183
Bromomethane		0.00110	U	0.00110	0.00183
2-Butanone (MEK)		0.0523		0.00466	0.0457
Carbon disulfide		0.00329	U	0.00329	0.00457
Carbon tetrachloride		0.000612	U	0.000612	0.00183
Chlorobenzene		0.000612	U	0.000612	0.00183
Chloroethane		0.00174	U	0.00174	0.00457
Chloroform		0.000612	U	0.000612	0.00183
Chloromethane		0.000612	U	0.000612	0.00183
cis-1,2-Dichloroethene		0.000612	U	0.000612	0.00183
cis-1,3-Dichloropropene		0.000612	U	0.000612	0.00183
Dibromochloromethane		0.000311	U	0.000311	0.00183
1,2-Dibromo-3-chloropropane		0.000640	U	0.000640	0.00457
1,2-Dibromoethane		0.000914	U	0.000914	0.00183
1,2-Dichlorobenzene		0.000311	U	0.000311	0.00183
1,3-Dichlorobenzene		0.000612	U	0.000612	0.00183
1,4-Dichlorobenzene		0.000612	U	0.000612	0.00183
Dichlorodifluoromethane		0.000914	U	0.000914	0.00183
1,1-Dichloroethane		0.000612	U	0.000612	0.00183
1,2-Dichloroethane		0.000612	U	0.000612	0.00183
1,1-Dichloroethene		0.000521	U	0.000521	0.00183
1,2-Dichloropropane		0.000859	U	0.000859	0.00183
1,3-Dichloropropane		0.000859	U	0.000859	0.00183
2,2-Dichloropropane		0.000612	U	0.000612	0.00183
1,1-Dichloropropene		0.000466	U	0.000466	0.00183
Ethylbenzene		0.000612	U	0.000612	0.00183
Hexachlorobutadiene		0.00104	U	0.00104	0.00457
2-Hexanone		0.0153	U	0.0153	0.0457
Iodomethane		0.00612	U	0.00612	0.0183
Isopropylbenzene		0.000375	U	0.000375	0.00183
Methylene bromide		0.000512	U	0.000512	0.00183
Methylene Chloride		0.000786	U	0.000786	0.00914
4-Methyl-2-pentanone (MIBK)		0.00174	U	0.00174	0.0457
Methyl tert butyl ether		0.000877	U	0.000877	0.00183
m,p-Xylene		0.000512	U	0.000512	0.00365
Naphthalene		0.00155	U	0.00155	0.00457
n-Butylbenzene		0.000895	U	0.000895	0.00183
N-Propylbenzene		0.000612	U	0.000612	0.00183
o-Chlorotoluene		0.000813	U	0.000813	0.00183
o-Xylene		0.000612	U	0.000612	0.00183
p-Chlorotoluene		0.000768	U	0.000768	0.00183

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 426

Lab Sample ID: 490-116539-7 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 10.6 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390023	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112816-17.D
Dilution:	1.0			Initial Weight/Volume:	6.124 g
Analysis Date:	11/28/2016 1657			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1045				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000612	U	0.000612	0.00183
sec-Butylbenzene		0.000612	U	0.000612	0.00183
Styrene		0.00101	U	0.00101	0.00183
tert-Butylbenzene		0.000822	U	0.000822	0.00183
1,1,1,2-Tetrachloroethane		0.000612	U	0.000612	0.00183
1,1,2,2-Tetrachloroethane		0.000914	U	0.000914	0.00183
Tetrachloroethene		0.000667	U	0.000667	0.00183
Toluene		0.000676	U	0.000676	0.00183
trans-1,2-Dichloroethene		0.000612	U	0.000612	0.00183
trans-1,3-Dichloropropene		0.000612	U	0.000612	0.00183
1,2,3-Trichlorobenzene		0.000347	U	0.000347	0.00183
1,2,4-Trichlorobenzene		0.000612	U	0.000612	0.00183
1,1,1-Trichloroethane		0.000841	U	0.000841	0.00183
1,1,2-Trichloroethane		0.00128	U	0.00128	0.00457
Trichloroethene		0.000877	U	0.000877	0.00183
Trichlorofluoromethane		0.000914	U	0.000914	0.00183
1,2,3-Trichloropropane		0.000503	U	0.000503	0.00183
1,2,4-Trimethylbenzene		0.00153	J	0.000914	0.00183
1,3,5-Trimethylbenzene		0.000685	U	0.000685	0.00183
Vinyl acetate		0.00402	U	0.00402	0.0183
Vinyl chloride		0.00101	U	0.00101	0.00183
Xylenes (total)		0.00112	U	0.00112	0.00548

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
Dibromofluoromethane (Surr)	118		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 426

Lab Sample ID: 490-116539-7 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 10.6 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390023	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112816-17.D
Dilution:	1.0			Initial Weight/Volume:	6.124 g
Analysis Date:	11/28/2016 1657			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1045				

Tentatively Identified Compounds **Number TIC's Found: 3**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
67-63-0	Isopropyl alcohol	2.37	0.0463	
79-20-9	Methyl acetate	2.49	0.0270	
110-54-3	Hexane	2.89	0.00275	J

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 432

Lab Sample ID: 490-116539-8 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 10.0 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390503	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388496	Lab File ID:	112916-40.D
Dilution:	1.0			Initial Weight/Volume:	4.085 g
Analysis Date:	11/30/2016 0433			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1300				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		2.94	U	2.94	3.68
Benzene		0.0500	U	0.0500	0.147
Bromobenzene		0.0529	U	0.0529	0.147
Bromochloromethane		0.0412	U	0.0412	0.147
Bromodichloromethane		0.0412	U	0.0412	0.147
Bromoform		0.0412	U	0.0412	0.147
Bromomethane		0.0882	U	0.0882	0.147
2-Butanone (MEK)		0.382	U	0.382	3.68
Carbon disulfide		0.265	U	0.265	0.368
Carbon tetrachloride		0.0500	U	0.0500	0.147
Chlorobenzene		0.0500	U	0.0500	0.147
Chloroethane		0.140	U	0.140	0.368
Chloroform		0.0500	U	0.0500	0.147
Chloromethane		0.0500	U	0.0500	0.147
cis-1,2-Dichloroethene		0.0500	U	0.0500	0.147
cis-1,3-Dichloropropene		0.0500	U	0.0500	0.147
Dibromochloromethane		0.0250	U	0.0250	0.147
1,2-Dibromo-3-chloropropane		0.0515	U	0.0515	0.368
1,2-Dibromoethane		0.0735	U	0.0735	0.147
1,2-Dichlorobenzene		0.0250	U	0.0250	0.147
1,3-Dichlorobenzene		0.0500	U	0.0500	0.147
1,4-Dichlorobenzene		0.0691	U	0.0691	0.147
Dichlorodifluoromethane		0.0735	U	0.0735	0.147
1,1-Dichloroethane		0.0500	U	0.0500	0.147
1,2-Dichloroethane		0.0500	U	0.0500	0.147
1,1-Dichloroethene		0.0426	U	0.0426	0.147
1,2-Dichloropropane		0.0691	U	0.0691	0.147
1,3-Dichloropropane		0.0691	U	0.0691	0.147
2,2-Dichloropropane		0.0500	U	0.0500	0.147
1,1-Dichloropropene		0.0382	U	0.0382	0.147
Ethylbenzene		0.0500	U	0.0500	0.147
Hexachlorobutadiene		0.0809	U	0.0809	0.368
2-Hexanone		1.24	U	1.24	3.68
Iodomethane		0.500	U	0.500	1.47
Isopropylbenzene		0.0309	U	0.0309	0.147
Methylene bromide		0.0412	U	0.0412	0.147
Methylene Chloride		0.0735	U	0.0735	0.735
4-Methyl-2-pentanone (MIBK)		1.25	U	1.25	3.68
Methyl tert butyl ether		0.0735	U	0.0735	0.147
m,p-Xylene		0.0412	U	0.0412	0.221
Naphthalene		0.125	U	0.125	0.368
n-Butylbenzene		0.0735	U	0.0735	0.147
N-Propylbenzene		0.0500	U	0.0500	0.147
o-Chlorotoluene		0.0676	U	0.0676	0.147
o-Xylene		0.0500	U	0.0500	0.147
p-Chlorotoluene		0.0618	U	0.0618	0.147

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 432

Lab Sample ID: 490-116539-8 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 10.0 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390503	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388496	Lab File ID:	112916-40.D
Dilution:	1.0			Initial Weight/Volume:	4.085 g
Analysis Date:	11/30/2016 0433			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1300				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.0500	U	0.0500	0.147
sec-Butylbenzene		0.0500	U	0.0500	0.147
Styrene		0.0809	U	0.0809	0.147
tert-Butylbenzene		0.0735	U	0.0735	0.147
1,1,1,2-Tetrachloroethane		0.0500	U	0.0500	0.147
1,1,2,2-Tetrachloroethane		0.0735	U	0.0735	0.147
Tetrachloroethene		0.0500	U	0.0500	0.147
Toluene		0.0544	U	0.0544	0.147
trans-1,2-Dichloroethene		0.0500	U	0.0500	0.147
trans-1,3-Dichloropropene		0.0500	U	0.0500	0.147
1,2,3-Trichlorobenzene		0.0279	U	0.0279	0.147
1,2,4-Trichlorobenzene		0.0500	U	0.0500	0.147
1,1,1-Trichloroethane		0.0676	U	0.0676	0.147
1,1,2-Trichloroethane		0.103	U	0.103	0.368
Trichloroethene		0.0735	U	0.0735	0.147
Trichlorofluoromethane		0.0735	U	0.0735	0.147
1,2,3-Trichloropropane		0.0412	U	0.0412	0.147
1,2,4-Trimethylbenzene		0.0735	U	0.0735	0.147
1,3,5-Trimethylbenzene		0.0559	U	0.0559	0.147
Vinyl acetate		0.324	U	0.324	1.47
Vinyl chloride		0.0809	U	0.0809	0.147
Xylenes (total)		0.0912	U	0.0912	0.221

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	112		70 - 130
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 432

Lab Sample ID: 490-116539-8 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 10.0 Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390503	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388496	Lab File ID:	112916-40.D
Dilution:	1.0			Initial Weight/Volume:	4.085 g
Analysis Date:	11/30/2016 0433			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1300				

Tentatively Identified Compounds **Number TIC's Found: 4**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
79-20-9	Methyl acetate	2.48	0.514	J
541-05-9	Cyclotrisiloxane, hexamethyl-	5.62	0.598	J N
91-57-6	2-Methylnaphthalene	12.23	0.266	J B
90-12-0	1-Methylnaphthalene	12.40	0.235	J B

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: **Trip Blank**

Lab Sample ID: 490-116539-9TB Date Sampled: 11/17/2016 0101
Client Matrix: Soil Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390023	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112816-09.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Analysis Date:	11/28/2016 1300			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0101				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0284	J	0.00840	0.0500
Benzene		0.000670	U	0.000670	0.00200
Bromobenzene		0.000720	U	0.000720	0.00200
Bromochloromethane		0.000550	U	0.000550	0.00200
Bromodichloromethane		0.000550	U	0.000550	0.00200
Bromoform		0.000550	U	0.000550	0.00200
Bromomethane		0.00120	U	0.00120	0.00200
2-Butanone (MEK)		0.00510	U	0.00510	0.0500
Carbon disulfide		0.00360	U	0.00360	0.00500
Carbon tetrachloride		0.000670	U	0.000670	0.00200
Chlorobenzene		0.000670	U	0.000670	0.00200
Chloroethane		0.00190	U	0.00190	0.00500
Chloroform		0.000670	U	0.000670	0.00200
Chloromethane		0.000670	U	0.000670	0.00200
cis-1,2-Dichloroethene		0.000670	U	0.000670	0.00200
cis-1,3-Dichloropropene		0.000670	U	0.000670	0.00200
Dibromochloromethane		0.000340	U	0.000340	0.00200
1,2-Dibromo-3-chloropropane		0.000700	U	0.000700	0.00500
1,2-Dibromoethane		0.00100	U	0.00100	0.00200
1,2-Dichlorobenzene		0.000340	U	0.000340	0.00200
1,3-Dichlorobenzene		0.000670	U	0.000670	0.00200
1,4-Dichlorobenzene		0.000670	U	0.000670	0.00200
Dichlorodifluoromethane		0.00100	U	0.00100	0.00200
1,1-Dichloroethane		0.000670	U	0.000670	0.00200
1,2-Dichloroethane		0.000670	U	0.000670	0.00200
1,1-Dichloroethene		0.000570	U	0.000570	0.00200
1,2-Dichloropropane		0.000940	U	0.000940	0.00200
1,3-Dichloropropane		0.000940	U	0.000940	0.00200
2,2-Dichloropropane		0.000670	U	0.000670	0.00200
1,1-Dichloropropene		0.000510	U	0.000510	0.00200
Ethylbenzene		0.000670	U	0.000670	0.00200
Hexachlorobutadiene		0.00114	U	0.00114	0.00500
2-Hexanone		0.0167	U	0.0167	0.0500
Iodomethane		0.00670	U	0.00670	0.0200
Isopropylbenzene		0.000410	U	0.000410	0.00200
Methylene bromide		0.000560	U	0.000560	0.00200
Methylene Chloride		0.000860	U	0.000860	0.0100
4-Methyl-2-pentanone (MIBK)		0.00190	U	0.00190	0.0500
Methyl tert butyl ether		0.000960	U	0.000960	0.00200
m,p-Xylene		0.000560	U	0.000560	0.00400
Naphthalene		0.00170	U	0.00170	0.00500
n-Butylbenzene		0.000980	U	0.000980	0.00200
N-Propylbenzene		0.000670	U	0.000670	0.00200
o-Chlorotoluene		0.000890	U	0.000890	0.00200
o-Xylene		0.000670	U	0.000670	0.00200
p-Chlorotoluene		0.000840	U	0.000840	0.00200

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: **Trip Blank**

Lab Sample ID: 490-116539-9TB Date Sampled: 11/17/2016 0101
Client Matrix: Soil Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390023	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112816-09.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Analysis Date:	11/28/2016 1300			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0101				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000670	U	0.000670	0.00200
sec-Butylbenzene		0.000670	U	0.000670	0.00200
Styrene		0.00110	U	0.00110	0.00200
tert-Butylbenzene		0.000900	U	0.000900	0.00200
1,1,1,2-Tetrachloroethane		0.000670	U	0.000670	0.00200
1,1,2,2-Tetrachloroethane		0.00100	U	0.00100	0.00200
Tetrachloroethene		0.000730	U	0.000730	0.00200
Toluene		0.000740	U	0.000740	0.00200
trans-1,2-Dichloroethene		0.000670	U	0.000670	0.00200
trans-1,3-Dichloropropene		0.000670	U	0.000670	0.00200
1,2,3-Trichlorobenzene		0.000380	U	0.000380	0.00200
1,2,4-Trichlorobenzene		0.000670	U	0.000670	0.00200
1,1,1-Trichloroethane		0.000920	U	0.000920	0.00200
1,1,2-Trichloroethane		0.00140	U	0.00140	0.00500
Trichloroethene		0.000960	U	0.000960	0.00200
Trichlorofluoromethane		0.00100	U	0.00100	0.00200
1,2,3-Trichloropropane		0.000550	U	0.000550	0.00200
1,2,4-Trimethylbenzene		0.00100	U	0.00100	0.00200
1,3,5-Trimethylbenzene		0.000750	U	0.000750	0.00200
Vinyl acetate		0.00440	U	0.00440	0.0200
Vinyl chloride		0.00110	U	0.00110	0.00200
Xylenes (total)		0.00123	U	0.00123	0.00600

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	113		70 - 130
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: **Trip Blank**

Lab Sample ID: 490-116539-9TB Date Sampled: 11/17/2016 0101
Client Matrix: Soil Date Received: 11/19/2016 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390023	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-388503	Lab File ID:	112816-09.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Analysis Date:	11/28/2016 1300			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0101				

Tentatively Identified Compounds **Number TIC's Found: 4**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
541-05-9	Cyclotrisiloxane, hexamethyl-	5.63	0.00911	J N
556-67-2	Cyclotetrasiloxane, octamethyl-	7.75	0.00674	J N
91-57-6	2-Methylnaphthalene	12.24	0.00290	J B
90-12-0	1-Methylnaphthalene	12.41	0.00220	J B

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 419

Lab Sample ID: 490-116536-1 Date Sampled: 11/17/2016 0815
Client Matrix: Soil % Moisture: 10.5 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	112916-31.D
Dilution:	1.0			Initial Weight/Volume:	34.02 g
Analysis Date:	11/30/2016 0213			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0315	U	0.0315	0.0660
Acenaphthylene		0.0286	U	0.0286	0.0660
Aniline		0.249	U	0.249	0.660
Anthracene		0.0286	U	0.0286	0.0660
Benzidine		0.201	U	0.201	0.328
Benzo(a)anthracene		0.0295	U	0.0295	0.0660
Benzo(a)pyrene		0.0266	U	0.0266	0.0660
Benzo(b)fluoranthene		0.0276	U	0.0276	0.0660
Benzo(g,h,i)perylene		0.0700		0.0325	0.0660
Benzoic acid		0.0591	U	0.0591	0.328
Benzo(k)fluoranthene		0.0266	U	0.0266	0.0660
Benzyl alcohol		0.191	U	0.191	0.328
Bis(2-chloroethoxy)methane		0.197	U	0.197	0.328
Bis(2-chloroethyl)ether		0.210	U	0.210	0.328
bis (2-chloroisopropyl) ether		0.195	U	0.195	0.328
Bis(2-ethylhexyl)phthalate		0.204	U	0.204	0.328
4-Bromophenyl phenyl ether		0.202	U	0.202	0.328
Butyl benzyl phthalate		0.212	U	0.212	0.328
Carbazole		0.204	U	0.204	0.328
4-Chloroaniline		0.224	U	0.224	0.328
4-Chloro-3-methylphenol		0.165	U	0.165	0.328
2-Chloronaphthalene		0.206	U	0.206	0.328
2-Chlorophenol		0.188	U	0.188	0.328
4-Chlorophenyl phenyl ether		0.198	U	0.198	0.328
Chrysene		0.0364	U	0.0364	0.0660
Dibenzo(a,h)anthracene		0.0315	U	0.0315	0.0660
Dibenzofuran		0.207	U	0.207	0.328
1,2-Dichlorobenzene		0.187	U	0.187	0.328
1,3-Dichlorobenzene		0.187	U	0.187	0.328
1,4-Dichlorobenzene		0.193	U	0.193	0.328
3,3'-Dichlorobenzidine		0.201	U	0.201	0.660
2,4-Dichlorophenol		0.172	U	0.172	0.328
Diethyl phthalate		0.209	U	0.209	0.328
2,4-Dimethylphenol		0.330	U	0.330	0.660
Dimethyl phthalate		0.204	U	0.204	0.328
Di-n-butyl phthalate		0.208	U	0.208	0.328
4,6-Dinitro-o-cresol		0.226	U *	0.226	0.328
2,4-Dinitrophenol		0.247	U *	0.247	0.328
2,4-Dinitrotoluene		0.205	U	0.205	0.328
2,6-Dinitrotoluene		0.220	U	0.220	0.328
Di-n-octyl phthalate		0.175	U	0.175	0.328
1,2-Diphenylhydrazine (as Azobenzene)		0.230	U	0.230	0.328
Fluoranthene		0.0335	U	0.0335	0.0660
Fluorene		0.0286	U	0.0286	0.0660
Hexachlorobenzene		0.246	U	0.246	0.328
Hexachlorobutadiene		0.164	U	0.164	0.328

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 419

Lab Sample ID: 490-116536-1 Date Sampled: 11/17/2016 0815
Client Matrix: Soil % Moisture: 10.5 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	112916-31.D
Dilution:	1.0			Initial Weight/Volume:	34.02 g
Analysis Date:	11/30/2016 0213			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.148	U	0.148	0.328
Hexachloroethane		0.178	U	0.178	0.328
Ideno(1,2,3-cd)pyrene		0.0391	J	0.0286	0.0660
Isophorone		0.185	U	0.185	0.328
1-Methylnaphthalene		0.0276	U	0.0276	0.0660
2-Methylnaphthalene		0.0256	U	0.0256	0.0660
Naphthalene		0.0286	U	0.0286	0.0660
2-Nitroaniline		0.204	U	0.204	0.328
3-Nitroaniline		0.227	U	0.227	0.660
4-Nitroaniline		0.234	U	0.234	0.660
Nitrobenzene		0.198	U	0.198	0.328
2-Nitrophenol		0.239	U	0.239	0.328
4-Nitrophenol		0.376	U	0.376	0.660
N-Nitrosodimethylamine		0.0197	U	0.0197	0.328
N-Nitrosodi-n-propylamine		0.191	U	0.191	0.328
N-Nitrosodiphenylamine		0.0522	U	0.0522	0.328
Pentachlorophenol		0.262	U	0.262	0.660
Phenanthrene		0.0335	U	0.0335	0.0660
Phenol		0.200	U	0.200	0.328
Pyrene		0.0335	U	0.0335	0.0660
Pyridine		0.196	U	0.196	0.660
1,2,4-Trichlorobenzene		0.178	U	0.178	0.328
2,4,5-Trichlorophenol		0.215	U	0.215	0.328
2,4,6-Trichlorophenol		0.189	U	0.189	0.328

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	72		29 - 120
2-Fluorophenol (Surr)	65		10 - 120
Nitrobenzene-d5 (Surr)	67		27 - 120
Phenol-d5 (Surr)	71		10 - 120
Terphenyl-d14 (Surr)	80		13 - 120
2,4,6-Tribromophenol (Surr)	80		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 420

Lab Sample ID: 490-116536-2 Date Sampled: 11/17/2016 0815
Client Matrix: Soil % Moisture: 10.3 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	112916-32.D
Dilution:	1.0			Initial Weight/Volume:	33.55 g
Analysis Date:	11/30/2016 0232			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0319	U	0.0319	0.0668
Acenaphthylene		0.0289	U	0.0289	0.0668
Aniline		0.252	U	0.252	0.668
Anthracene		0.0289	U	0.0289	0.0668
Benzidine		0.203	U	0.203	0.332
Benzo(a)anthracene		0.0299	U	0.0299	0.0668
Benzo(a)pyrene		0.0269	U	0.0269	0.0668
Benzo(b)fluoranthene		0.0279	U	0.0279	0.0668
Benzo(g,h,i)perylene		0.154		0.0329	0.0668
Benzoic acid		0.0598	U	0.0598	0.332
Benzo(k)fluoranthene		0.0269	U	0.0269	0.0668
Benzyl alcohol		0.193	U	0.193	0.332
Bis(2-chloroethoxy)methane		0.199	U	0.199	0.332
Bis(2-chloroethyl)ether		0.212	U	0.212	0.332
bis (2-chloroisopropyl) ether		0.197	U	0.197	0.332
Bis(2-ethylhexyl)phthalate		0.206	U	0.206	0.332
4-Bromophenyl phenyl ether		0.204	U	0.204	0.332
Butyl benzyl phthalate		0.214	U	0.214	0.332
Carbazole		0.206	U	0.206	0.332
4-Chloroaniline		0.226	U	0.226	0.332
4-Chloro-3-methylphenol		0.167	U	0.167	0.332
2-Chloronaphthalene		0.208	U	0.208	0.332
2-Chlorophenol		0.190	U	0.190	0.332
4-Chlorophenyl phenyl ether		0.200	U	0.200	0.332
Chrysene		0.0369	U	0.0369	0.0668
Dibenzo(a,h)anthracene		0.0319	U	0.0319	0.0668
Dibenzofuran		0.209	U	0.209	0.332
1,2-Dichlorobenzene		0.189	U	0.189	0.332
1,3-Dichlorobenzene		0.189	U	0.189	0.332
1,4-Dichlorobenzene		0.195	U	0.195	0.332
3,3'-Dichlorobenzidine		0.203	U	0.203	0.668
2,4-Dichlorophenol		0.174	U	0.174	0.332
Diethyl phthalate		0.211	U	0.211	0.332
2,4-Dimethylphenol		0.334	U	0.334	0.668
Dimethyl phthalate		0.206	U	0.206	0.332
Di-n-butyl phthalate		0.210	U	0.210	0.332
4,6-Dinitro-o-cresol		0.228	U *	0.228	0.332
2,4-Dinitrophenol		0.250	U *	0.250	0.332
2,4-Dinitrotoluene		0.207	U	0.207	0.332
2,6-Dinitrotoluene		0.222	U	0.222	0.332
Di-n-octyl phthalate		0.177	U	0.177	0.332
1,2-Diphenylhydrazine (as Azobenzene)		0.233	U	0.233	0.332
Fluoranthene		0.0339	U	0.0339	0.0668
Fluorene		0.0289	U	0.0289	0.0668
Hexachlorobenzene		0.249	U	0.249	0.332
Hexachlorobutadiene		0.166	U	0.166	0.332

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 420

Lab Sample ID: 490-116536-2 Date Sampled: 11/17/2016 0815
Client Matrix: Soil % Moisture: 10.3 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	112916-32.D
Dilution:	1.0			Initial Weight/Volume:	33.55 g
Analysis Date:	11/30/2016 0232			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.149	U	0.149	0.332
Hexachloroethane		0.180	U	0.180	0.332
Ideno(1,2,3-cd)pyrene		0.0429	J	0.0289	0.0668
Isophorone		0.187	U	0.187	0.332
1-Methylnaphthalene		0.0279	U	0.0279	0.0668
2-Methylnaphthalene		0.0259	U	0.0259	0.0668
Naphthalene		0.0289	U	0.0289	0.0668
2-Nitroaniline		0.206	U	0.206	0.332
3-Nitroaniline		0.229	U	0.229	0.668
4-Nitroaniline		0.237	U	0.237	0.668
Nitrobenzene		0.200	U	0.200	0.332
2-Nitrophenol		0.242	U	0.242	0.332
4-Nitrophenol		0.381	U	0.381	0.668
N-Nitrosodimethylamine		0.0199	U	0.0199	0.332
N-Nitrosodi-n-propylamine		0.193	U	0.193	0.332
N-Nitrosodiphenylamine		0.0528	U	0.0528	0.332
Pentachlorophenol		0.265	U	0.265	0.668
Phenanthrene		0.0339	U	0.0339	0.0668
Phenol		0.202	U	0.202	0.332
Pyrene		0.0339	U	0.0339	0.0668
Pyridine		0.198	U	0.198	0.668
1,2,4-Trichlorobenzene		0.180	U	0.180	0.332
2,4,5-Trichlorophenol		0.217	U	0.217	0.332
2,4,6-Trichlorophenol		0.191	U	0.191	0.332

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	62		29 - 120
2-Fluorophenol (Surr)	47		10 - 120
Nitrobenzene-d5 (Surr)	52		27 - 120
Phenol-d5 (Surr)	55		10 - 120
Terphenyl-d14 (Surr)	73		13 - 120
2,4,6-Tribromophenol (Surr)	76		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 418

Lab Sample ID: 490-116536-3 Date Sampled: 11/17/2016 0815
Client Matrix: Soil % Moisture: 9.4 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	112916-33.D
Dilution:	1.0			Initial Weight/Volume:	33.12 g
Analysis Date:	11/30/2016 0250			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0320	U	0.0320	0.0670
Acenaphthylene		0.0290	U	0.0290	0.0670
Aniline		0.253	U	0.253	0.670
Anthracene		0.0290	U	0.0290	0.0670
Benzidine		0.204	U	0.204	0.333
Benzo(a)anthracene		0.0417	J	0.0300	0.0670
Benzo(a)pyrene		0.0295	J	0.0270	0.0670
Benzo(b)fluoranthene		0.0368	J	0.0280	0.0670
Benzo(g,h,i)perylene		0.0330	U	0.0330	0.0670
Benzoic acid		0.0600	U	0.0600	0.333
Benzo(k)fluoranthene		0.0270	U	0.0270	0.0670
Benzyl alcohol		0.194	U	0.194	0.333
Bis(2-chloroethoxy)methane		0.200	U	0.200	0.333
Bis(2-chloroethyl)ether		0.213	U	0.213	0.333
bis (2-chloroisopropyl) ether		0.198	U	0.198	0.333
Bis(2-ethylhexyl)phthalate		0.207	U	0.207	0.333
4-Bromophenyl phenyl ether		0.205	U	0.205	0.333
Butyl benzyl phthalate		0.215	U	0.215	0.333
Carbazole		0.207	U	0.207	0.333
4-Chloroaniline		0.227	U	0.227	0.333
4-Chloro-3-methylphenol		0.168	U	0.168	0.333
2-Chloronaphthalene		0.209	U	0.209	0.333
2-Chlorophenol		0.191	U	0.191	0.333
4-Chlorophenyl phenyl ether		0.201	U	0.201	0.333
Chrysene		0.118		0.0370	0.0670
Dibenzo(a,h)anthracene		0.0320	U	0.0320	0.0670
Dibenzofuran		0.210	U	0.210	0.333
1,2-Dichlorobenzene		0.190	U	0.190	0.333
1,3-Dichlorobenzene		0.190	U	0.190	0.333
1,4-Dichlorobenzene		0.196	U	0.196	0.333
3,3'-Dichlorobenzidine		0.204	U	0.204	0.670
2,4-Dichlorophenol		0.175	U	0.175	0.333
Diethyl phthalate		0.212	U	0.212	0.333
2,4-Dimethylphenol		0.335	U	0.335	0.670
Dimethyl phthalate		0.207	U	0.207	0.333
Di-n-butyl phthalate		0.211	U	0.211	0.333
4,6-Dinitro-o-cresol		0.229	U *	0.229	0.333
2,4-Dinitrophenol		0.251	U *	0.251	0.333
2,4-Dinitrotoluene		0.208	U	0.208	0.333
2,6-Dinitrotoluene		0.223	U	0.223	0.333
Di-n-octyl phthalate		0.178	U	0.178	0.333
1,2-Diphenylhydrazine (as Azobenzene)		0.234	U	0.234	0.333
Fluoranthene		0.0684		0.0340	0.0670
Fluorene		0.0290	U	0.0290	0.0670
Hexachlorobenzene		0.250	U	0.250	0.333
Hexachlorobutadiene		0.167	U	0.167	0.333

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 418

Lab Sample ID: 490-116536-3 Date Sampled: 11/17/2016 0815
Client Matrix: Soil % Moisture: 9.4 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	112916-33.D
Dilution:	1.0			Initial Weight/Volume:	33.12 g
Analysis Date:	11/30/2016 0250			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.150	U	0.150	0.333
Hexachloroethane		0.181	U	0.181	0.333
Ideno(1,2,3-cd)pyrene		0.0290	U	0.0290	0.0670
Isophorone		0.188	U	0.188	0.333
1-Methylnaphthalene		0.618		0.0280	0.0670
2-Methylnaphthalene		0.0260	U	0.0260	0.0670
Naphthalene		0.0290	U	0.0290	0.0670
2-Nitroaniline		0.207	U	0.207	0.333
3-Nitroaniline		0.230	U	0.230	0.670
4-Nitroaniline		0.238	U	0.238	0.670
Nitrobenzene		0.201	U	0.201	0.333
2-Nitrophenol		0.243	U	0.243	0.333
4-Nitrophenol		0.382	U	0.382	0.670
N-Nitrosodimethylamine		0.0200	U	0.0200	0.333
N-Nitrosodi-n-propylamine		0.194	U	0.194	0.333
N-Nitrosodiphenylamine		0.0530	U	0.0530	0.333
Pentachlorophenol		0.266	U	0.266	0.670
Phenanthrene		0.416		0.0340	0.0670
Phenol		0.203	U	0.203	0.333
Pyrene		0.124		0.0340	0.0670
Pyridine		0.199	U	0.199	0.670
1,2,4-Trichlorobenzene		0.181	U	0.181	0.333
2,4,5-Trichlorophenol		0.218	U	0.218	0.333
2,4,6-Trichlorophenol		0.192	U	0.192	0.333

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	73		29 - 120
2-Fluorophenol (Surr)	53		10 - 120
Nitrobenzene-d5 (Surr)	78		27 - 120
Phenol-d5 (Surr)	61		10 - 120
Terphenyl-d14 (Surr)	71		13 - 120
2,4,6-Tribromophenol (Surr)	80		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 407

Lab Sample ID: 490-116536-4 Date Sampled: 11/17/2016 0945
Client Matrix: Soil % Moisture: 11.5 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	112916-36.D
Dilution:	1.0			Initial Weight/Volume:	33.99 g
Analysis Date:	11/30/2016 0343			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0319	U	0.0319	0.0668
Acenaphthylene		0.0289	U	0.0289	0.0668
Aniline		0.252	U	0.252	0.668
Anthracene		0.0289	U	0.0289	0.0668
Benzidine		0.203	U	0.203	0.332
Benzo(a)anthracene		0.0299	U	0.0299	0.0668
Benzo(a)pyrene		0.0269	U	0.0269	0.0668
Benzo(b)fluoranthene		0.0279	U	0.0279	0.0668
Benzo(g,h,i)perylene		0.0329	U	0.0329	0.0668
Benzoic acid		0.0598	U	0.0598	0.332
Benzo(k)fluoranthene		0.0269	U	0.0269	0.0668
Benzyl alcohol		0.193	U	0.193	0.332
Bis(2-chloroethoxy)methane		0.199	U	0.199	0.332
Bis(2-chloroethyl)ether		0.212	U	0.212	0.332
bis (2-chloroisopropyl) ether		0.197	U	0.197	0.332
Bis(2-ethylhexyl)phthalate		0.206	U	0.206	0.332
4-Bromophenyl phenyl ether		0.204	U	0.204	0.332
Butyl benzyl phthalate		0.214	U	0.214	0.332
Carbazole		0.206	U	0.206	0.332
4-Chloroaniline		0.226	U	0.226	0.332
4-Chloro-3-methylphenol		0.168	U	0.168	0.332
2-Chloronaphthalene		0.208	U	0.208	0.332
2-Chlorophenol		0.190	U	0.190	0.332
4-Chlorophenyl phenyl ether		0.200	U	0.200	0.332
Chrysene		0.0369	U	0.0369	0.0668
Dibenzo(a,h)anthracene		0.0319	U	0.0319	0.0668
Dibenzofuran		0.209	U	0.209	0.332
1,2-Dichlorobenzene		0.189	U	0.189	0.332
1,3-Dichlorobenzene		0.189	U	0.189	0.332
1,4-Dichlorobenzene		0.195	U	0.195	0.332
3,3'-Dichlorobenzidine		0.203	U	0.203	0.668
2,4-Dichlorophenol		0.175	U	0.175	0.332
Diethyl phthalate		0.211	U	0.211	0.332
2,4-Dimethylphenol		0.334	U	0.334	0.668
Dimethyl phthalate		0.206	U	0.206	0.332
Di-n-butyl phthalate		0.210	U	0.210	0.332
4,6-Dinitro-o-cresol		0.228	U *	0.228	0.332
2,4-Dinitrophenol		0.250	U *	0.250	0.332
2,4-Dinitrotoluene		0.207	U	0.207	0.332
2,6-Dinitrotoluene		0.222	U	0.222	0.332
Di-n-octyl phthalate		0.178	U	0.178	0.332
1,2-Diphenylhydrazine (as Azobenzene)		0.233	U	0.233	0.332
Fluoranthene		0.0339	U	0.0339	0.0668
Fluorene		0.0289	U	0.0289	0.0668
Hexachlorobenzene		0.249	U	0.249	0.332
Hexachlorobutadiene		0.167	U	0.167	0.332

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 407

Lab Sample ID: 490-116536-4 Date Sampled: 11/17/2016 0945
Client Matrix: Soil % Moisture: 11.5 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	112916-36.D
Dilution:	1.0			Initial Weight/Volume:	33.99 g
Analysis Date:	11/30/2016 0343			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.150	U	0.150	0.332
Hexachloroethane		0.181	U	0.181	0.332
Ideno(1,2,3-cd)pyrene		0.0289	U	0.0289	0.0668
Isophorone		0.188	U	0.188	0.332
1-Methylnaphthalene		0.0279	U	0.0279	0.0668
2-Methylnaphthalene		0.0259	U	0.0259	0.0668
Naphthalene		0.0289	U	0.0289	0.0668
2-Nitroaniline		0.206	U	0.206	0.332
3-Nitroaniline		0.229	U	0.229	0.668
4-Nitroaniline		0.237	U	0.237	0.668
Nitrobenzene		0.200	U	0.200	0.332
2-Nitrophenol		0.242	U	0.242	0.332
4-Nitrophenol		0.381	U	0.381	0.668
N-Nitrosodimethylamine		0.0199	U	0.0199	0.332
N-Nitrosodi-n-propylamine		0.193	U	0.193	0.332
N-Nitrosodiphenylamine		0.0529	U	0.0529	0.332
Pentachlorophenol		0.265	U	0.265	0.668
Phenanthrene		0.0339	U	0.0339	0.0668
Phenol		0.202	U	0.202	0.332
Pyrene		0.0339	U	0.0339	0.0668
Pyridine		0.198	U	0.198	0.668
1,2,4-Trichlorobenzene		0.181	U	0.181	0.332
2,4,5-Trichlorophenol		0.217	U	0.217	0.332
2,4,6-Trichlorophenol		0.191	U	0.191	0.332

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	51		29 - 120
2-Fluorophenol (Surr)	48		10 - 120
Nitrobenzene-d5 (Surr)	48		27 - 120
Phenol-d5 (Surr)	53		10 - 120
Terphenyl-d14 (Surr)	65		13 - 120
2,4,6-Tribromophenol (Surr)	66		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 424

Lab Sample ID: 490-116536-5 Date Sampled: 11/17/2016 0945
Client Matrix: Soil % Moisture: 16.0 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	112916-37.D
Dilution:	5.0			Initial Weight/Volume:	35.89 g
Analysis Date:	11/30/2016 0401			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.159	U	0.159	0.333
Acenaphthylene		0.144	U	0.144	0.333
Aniline		1.26	U	1.26	3.33
Anthracene		0.144	U	0.144	0.333
Benzidine		1.01	U	1.01	1.66
Benzo(a)anthracene		0.149	U	0.149	0.333
Benzo(a)pyrene		0.134	U	0.134	0.333
Benzo(b)fluoranthene		0.139	U	0.139	0.333
Benzo(g,h,i)perylene		0.169	J	0.164	0.333
Benzoic acid		0.298	U	0.298	1.66
Benzo(k)fluoranthene		0.134	U	0.134	0.333
Benzyl alcohol		0.965	U	0.965	1.66
Bis(2-chloroethoxy)methane		0.995	U	0.995	1.66
Bis(2-chloroethyl)ether		1.06	U	1.06	1.66
bis (2-chloroisopropyl) ether		0.985	U	0.985	1.66
Bis(2-ethylhexyl)phthalate		1.03	U	1.03	1.66
4-Bromophenyl phenyl ether		1.02	U	1.02	1.66
Butyl benzyl phthalate		1.07	U	1.07	1.66
Carbazole		1.03	U	1.03	1.66
4-Chloroaniline		1.13	U	1.13	1.66
4-Chloro-3-methylphenol		0.835	U	0.835	1.66
2-Chloronaphthalene		1.04	U	1.04	1.66
2-Chlorophenol		0.950	U	0.950	1.66
4-Chlorophenyl phenyl ether		1.00	U	1.00	1.66
Chrysene		0.184	U	0.184	0.333
Dibenzo(a,h)anthracene		0.159	U	0.159	0.333
Dibenzofuran		1.04	U	1.04	1.66
1,2-Dichlorobenzene		0.945	U	0.945	1.66
1,3-Dichlorobenzene		0.945	U	0.945	1.66
1,4-Dichlorobenzene		0.975	U	0.975	1.66
3,3'-Dichlorobenzidine		1.01	U	1.01	3.33
2,4-Dichlorophenol		0.870	U	0.870	1.66
Diethyl phthalate		1.05	U	1.05	1.66
2,4-Dimethylphenol		1.67	U	1.67	3.33
Dimethyl phthalate		1.03	U	1.03	1.66
Di-n-butyl phthalate		1.05	U	1.05	1.66
4,6-Dinitro-o-cresol		1.14	U *	1.14	1.66
2,4-Dinitrophenol		1.25	U *	1.25	1.66
2,4-Dinitrotoluene		1.03	U	1.03	1.66
2,6-Dinitrotoluene		1.11	U	1.11	1.66
Di-n-octyl phthalate		0.885	U	0.885	1.66
1,2-Diphenylhydrazine (as Azobenzene)		1.16	U	1.16	1.66
Fluoranthene		0.169	U	0.169	0.333
Fluorene		0.144	U	0.144	0.333
Hexachlorobenzene		1.24	U	1.24	1.66
Hexachlorobutadiene		0.830	U	0.830	1.66

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 424

Lab Sample ID: 490-116536-5 Date Sampled: 11/17/2016 0945
Client Matrix: Soil % Moisture: 16.0 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	112916-37.D
Dilution:	5.0			Initial Weight/Volume:	35.89 g
Analysis Date:	11/30/2016 0401			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.746	U	0.746	1.66
Hexachloroethane		0.900	U	0.900	1.66
Ideno(1,2,3-cd)pyrene		0.144	U	0.144	0.333
Isophorone		0.935	U	0.935	1.66
1-Methylnaphthalene		0.139	U	0.139	0.333
2-Methylnaphthalene		0.129	U	0.129	0.333
Naphthalene		0.144	U	0.144	0.333
2-Nitroaniline		1.03	U	1.03	1.66
3-Nitroaniline		1.14	U	1.14	3.33
4-Nitroaniline		1.18	U	1.18	3.33
Nitrobenzene		1.00	U	1.00	1.66
2-Nitrophenol		1.21	U	1.21	1.66
4-Nitrophenol		1.90	U	1.90	3.33
N-Nitrosodimethylamine		0.0995	U	0.0995	1.66
N-Nitrosodi-n-propylamine		0.965	U	0.965	1.66
N-Nitrosodiphenylamine		0.264	U	0.264	1.66
Pentachlorophenol		1.32	U	1.32	3.33
Phenanthrene		0.169	U	0.169	0.333
Phenol		1.01	U	1.01	1.66
Pyrene		0.169	U	0.169	0.333
Pyridine		0.990	U	0.990	3.33
1,2,4-Trichlorobenzene		0.900	U	0.900	1.66
2,4,5-Trichlorophenol		1.08	U	1.08	1.66
2,4,6-Trichlorophenol		0.955	U	0.955	1.66

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	87		29 - 120
2-Fluorophenol (Surr)	65		10 - 120
Nitrobenzene-d5 (Surr)	80		27 - 120
Phenol-d5 (Surr)	78		10 - 120
Terphenyl-d14 (Surr)	100		13 - 120
2,4,6-Tribromophenol (Surr)	101		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 425

Lab Sample ID: 490-116536-6 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 12.2 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	112916-38.D
Dilution:	1.0			Initial Weight/Volume:	35.06 g
Analysis Date:	11/30/2016 0419			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0312	U	0.0312	0.0653
Acenaphthylene		0.0283	U	0.0283	0.0653
Aniline		0.247	U	0.247	0.653
Anthracene		0.0651	J	0.0283	0.0653
Benzidine		0.199	U	0.199	0.325
Benzo(a)anthracene		0.239		0.0293	0.0653
Benzo(a)pyrene		0.221		0.0263	0.0653
Benzo(b)fluoranthene		0.316		0.0273	0.0653
Benzo(g,h,i)perylene		0.157		0.0322	0.0653
Benzoic acid		0.0585	U	0.0585	0.325
Benzo(k)fluoranthene		0.120		0.0263	0.0653
Benzyl alcohol		0.189	U	0.189	0.325
Bis(2-chloroethoxy)methane		0.195	U	0.195	0.325
Bis(2-chloroethyl)ether		0.208	U	0.208	0.325
bis (2-chloroisopropyl) ether		0.193	U	0.193	0.325
Bis(2-ethylhexyl)phthalate		0.202	U	0.202	0.325
4-Bromophenyl phenyl ether		0.200	U	0.200	0.325
Butyl benzyl phthalate		0.210	U	0.210	0.325
Carbazole		0.202	U	0.202	0.325
4-Chloroaniline		0.221	U	0.221	0.325
4-Chloro-3-methylphenol		0.164	U	0.164	0.325
2-Chloronaphthalene		0.204	U	0.204	0.325
2-Chlorophenol		0.186	U	0.186	0.325
4-Chlorophenyl phenyl ether		0.196	U	0.196	0.325
Chrysene		0.248		0.0361	0.0653
Dibenzo(a,h)anthracene		0.0399	J	0.0312	0.0653
Dibenzofuran		0.205	U	0.205	0.325
1,2-Dichlorobenzene		0.185	U	0.185	0.325
1,3-Dichlorobenzene		0.185	U	0.185	0.325
1,4-Dichlorobenzene		0.191	U	0.191	0.325
3,3'-Dichlorobenzidine		0.199	U	0.199	0.653
2,4-Dichlorophenol		0.171	U	0.171	0.325
Diethyl phthalate		0.207	U	0.207	0.325
2,4-Dimethylphenol		0.327	U	0.327	0.653
Dimethyl phthalate		0.202	U	0.202	0.325
Di-n-butyl phthalate		0.206	U	0.206	0.325
4,6-Dinitro-o-cresol		0.223	U *	0.223	0.325
2,4-Dinitrophenol		0.245	U *	0.245	0.325
2,4-Dinitrotoluene		0.203	U	0.203	0.325
2,6-Dinitrotoluene		0.217	U	0.217	0.325
Di-n-octyl phthalate		0.174	U	0.174	0.325
1,2-Diphenylhydrazine (as Azobenzene)		0.228	U	0.228	0.325
Fluoranthene		0.525		0.0332	0.0653
Fluorene		0.0283	U	0.0283	0.0653
Hexachlorobenzene		0.244	U	0.244	0.325
Hexachlorobutadiene		0.163	U	0.163	0.325

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 425

Lab Sample ID: 490-116536-6 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 12.2 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	112916-38.D
Dilution:	1.0			Initial Weight/Volume:	35.06 g
Analysis Date:	11/30/2016 0419			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.146	U	0.146	0.325
Hexachloroethane		0.176	U	0.176	0.325
Ideno(1,2,3-cd)pyrene		0.147		0.0283	0.0653
Isophorone		0.183	U	0.183	0.325
1-Methylnaphthalene		0.0273	U	0.0273	0.0653
2-Methylnaphthalene		0.0254	U	0.0254	0.0653
Naphthalene		0.0283	U	0.0283	0.0653
2-Nitroaniline		0.202	U	0.202	0.325
3-Nitroaniline		0.224	U	0.224	0.653
4-Nitroaniline		0.232	U	0.232	0.653
Nitrobenzene		0.196	U	0.196	0.325
2-Nitrophenol		0.237	U	0.237	0.325
4-Nitrophenol		0.372	U	0.372	0.653
N-Nitrosodimethylamine		0.0195	U	0.0195	0.325
N-Nitrosodi-n-propylamine		0.189	U	0.189	0.325
N-Nitrosodiphenylamine		0.0517	U	0.0517	0.325
Pentachlorophenol		0.259	U	0.259	0.653
Phenanthrene		0.394		0.0332	0.0653
Phenol		0.198	U	0.198	0.325
Pyrene		0.446		0.0332	0.0653
Pyridine		0.194	U	0.194	0.653
1,2,4-Trichlorobenzene		0.176	U	0.176	0.325
2,4,5-Trichlorophenol		0.213	U	0.213	0.325
2,4,6-Trichlorophenol		0.187	U	0.187	0.325

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	57		29 - 120
2-Fluorophenol (Surr)	51		10 - 120
Nitrobenzene-d5 (Surr)	50		27 - 120
Phenol-d5 (Surr)	56		10 - 120
Terphenyl-d14 (Surr)	81		13 - 120
2,4,6-Tribromophenol (Surr)	83		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 428

Lab Sample ID: 490-116536-7 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 8.3 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390980	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	120116-23.D
Dilution:	1.0			Initial Weight/Volume:	33.07 g
Analysis Date:	12/01/2016 1608			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0317	U	0.0317	0.0663
Acenaphthylene		0.0287	U	0.0287	0.0663
Aniline		0.250	U	0.250	0.663
Anthracene		0.0287	U	0.0287	0.0663
Benzidine		0.202	U	0.202	0.329
Benzo(a)anthracene		0.0297	U	0.0297	0.0663
Benzo(a)pyrene		0.0267	U	0.0267	0.0663
Benzo(b)fluoranthene		0.0277	U	0.0277	0.0663
Benzo(g,h,i)perylene		0.0326	U	0.0326	0.0663
Benzoic acid		0.0593	U	0.0593	0.329
Benzo(k)fluoranthene		0.0267	U	0.0267	0.0663
Benzyl alcohol		0.192	U	0.192	0.329
Bis(2-chloroethoxy)methane		0.198	U	0.198	0.329
Bis(2-chloroethyl)ether		0.211	U	0.211	0.329
bis (2-chloroisopropyl) ether		0.196	U	0.196	0.329
Bis(2-ethylhexyl)phthalate		0.205	U	0.205	0.329
4-Bromophenyl phenyl ether		0.203	U	0.203	0.329
Butyl benzyl phthalate		0.213	U	0.213	0.329
Carbazole		0.205	U	0.205	0.329
4-Chloroaniline		0.225	U	0.225	0.329
4-Chloro-3-methylphenol		0.166	U	0.166	0.329
2-Chloronaphthalene		0.207	U	0.207	0.329
2-Chlorophenol		0.189	U	0.189	0.329
4-Chlorophenyl phenyl ether		0.199	U	0.199	0.329
Chrysene		0.0366	U	0.0366	0.0663
Dibenzo(a,h)anthracene		0.0317	U	0.0317	0.0663
Dibenzofuran		0.208	U	0.208	0.329
1,2-Dichlorobenzene		0.188	U	0.188	0.329
1,3-Dichlorobenzene		0.188	U	0.188	0.329
1,4-Dichlorobenzene		0.194	U	0.194	0.329
3,3'-Dichlorobenzidine		0.202	U	0.202	0.663
2,4-Dichlorophenol		0.173	U	0.173	0.329
Diethyl phthalate		0.210	U	0.210	0.329
2,4-Dimethylphenol		0.331	U	0.331	0.663
Dimethyl phthalate		0.205	U	0.205	0.329
Di-n-butyl phthalate		0.209	U	0.209	0.329
4,6-Dinitro-o-cresol		0.227	U *	0.227	0.329
2,4-Dinitrophenol		0.248	U *	0.248	0.329
2,4-Dinitrotoluene		0.206	U	0.206	0.329
2,6-Dinitrotoluene		0.221	U	0.221	0.329
Di-n-octyl phthalate		0.176	U	0.176	0.329
1,2-Diphenylhydrazine (as Azobenzene)		0.231	U	0.231	0.329
Fluoranthene		0.0336	U	0.0336	0.0663
Fluorene		0.0287	U	0.0287	0.0663
Hexachlorobenzene		0.247	U	0.247	0.329
Hexachlorobutadiene		0.165	U	0.165	0.329

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 428

Lab Sample ID: 490-116536-7 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 8.3 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390980	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	120116-23.D
Dilution:	1.0			Initial Weight/Volume:	33.07 g
Analysis Date:	12/01/2016 1608			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.148	U	0.148	0.329
Hexachloroethane		0.179	U	0.179	0.329
Ideno(1,2,3-cd)pyrene		0.0287	U	0.0287	0.0663
Isophorone		0.186	U	0.186	0.329
1-Methylnaphthalene		0.0277	U	0.0277	0.0663
2-Methylnaphthalene		0.0257	U	0.0257	0.0663
Naphthalene		0.0287	U	0.0287	0.0663
2-Nitroaniline		0.205	U	0.205	0.329
3-Nitroaniline		0.227	U	0.227	0.663
4-Nitroaniline		0.235	U	0.235	0.663
Nitrobenzene		0.199	U	0.199	0.329
2-Nitrophenol		0.240	U	0.240	0.329
4-Nitrophenol		0.378	U	0.378	0.663
N-Nitrosodimethylamine		0.0198	U	0.0198	0.329
N-Nitrosodi-n-propylamine		0.192	U	0.192	0.329
N-Nitrosodiphenylamine		0.0524	U	0.0524	0.329
Pentachlorophenol		0.263	U	0.263	0.663
Phenanthrene		0.0336	U	0.0336	0.0663
Phenol		0.201	U	0.201	0.329
Pyrene		0.0351	J	0.0336	0.0663
Pyridine		0.197	U	0.197	0.663
1,2,4-Trichlorobenzene		0.179	U	0.179	0.329
2,4,5-Trichlorophenol		0.216	U	0.216	0.329
2,4,6-Trichlorophenol		0.190	U	0.190	0.329

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	56		29 - 120
2-Fluorophenol (Surr)	56		10 - 120
Nitrobenzene-d5 (Surr)	54		27 - 120
Phenol-d5 (Surr)	58		10 - 120
Terphenyl-d14 (Surr)	70		13 - 120
2,4,6-Tribromophenol (Surr)	71		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 429

Lab Sample ID: 490-116536-8 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 8.1 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390980	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	120116-24a.D
Dilution:	1.0			Initial Weight/Volume:	33.73 g
Analysis Date:	12/01/2016 1643			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0310	U	0.0310	0.0648
Acenaphthylene		0.0281	U	0.0281	0.0648
Aniline		0.245	U	0.245	0.648
Anthracene		0.0281	U	0.0281	0.0648
Benzidine		0.197	U	0.197	0.322
Benzo(a)anthracene		0.0441	J	0.0290	0.0648
Benzo(a)pyrene		0.0398	J	0.0261	0.0648
Benzo(b)fluoranthene		0.0420	J	0.0271	0.0648
Benzo(g,h,i)perylene		0.0319	U	0.0319	0.0648
Benzoic acid		0.0581	U	0.0581	0.322
Benzo(k)fluoranthene		0.0261	U	0.0261	0.0648
Benzyl alcohol		0.188	U	0.188	0.322
Bis(2-chloroethoxy)methane		0.194	U	0.194	0.322
Bis(2-chloroethyl)ether		0.206	U	0.206	0.322
bis (2-chloroisopropyl) ether		0.192	U	0.192	0.322
Bis(2-ethylhexyl)phthalate		0.200	U	0.200	0.322
4-Bromophenyl phenyl ether		0.198	U	0.198	0.322
Butyl benzyl phthalate		0.208	U	0.208	0.322
Carbazole		0.200	U	0.200	0.322
4-Chloroaniline		0.220	U	0.220	0.322
4-Chloro-3-methylphenol		0.163	U	0.163	0.322
2-Chloronaphthalene		0.202	U	0.202	0.322
2-Chlorophenol		0.185	U	0.185	0.322
4-Chlorophenyl phenyl ether		0.194	U	0.194	0.322
Chrysene		0.0386	J	0.0358	0.0648
Dibenzo(a,h)anthracene		0.0310	U	0.0310	0.0648
Dibenzofuran		0.203	U	0.203	0.322
1,2-Dichlorobenzene		0.184	U	0.184	0.322
1,3-Dichlorobenzene		0.184	U	0.184	0.322
1,4-Dichlorobenzene		0.190	U	0.190	0.322
3,3'-Dichlorobenzidine		0.197	U	0.197	0.648
2,4-Dichlorophenol		0.169	U	0.169	0.322
Diethyl phthalate		0.205	U	0.205	0.322
2,4-Dimethylphenol		0.324	U	0.324	0.648
Dimethyl phthalate		0.200	U	0.200	0.322
Di-n-butyl phthalate		0.204	U	0.204	0.322
4,6-Dinitro-o-cresol		0.222	U *	0.222	0.322
2,4-Dinitrophenol		0.243	U *	0.243	0.322
2,4-Dinitrotoluene		0.201	U	0.201	0.322
2,6-Dinitrotoluene		0.216	U	0.216	0.322
Di-n-octyl phthalate		0.172	U	0.172	0.322
1,2-Diphenylhydrazine (as Azobenzene)		0.226	U	0.226	0.322
Fluoranthene		0.0764		0.0329	0.0648
Fluorene		0.0281	U	0.0281	0.0648
Hexachlorobenzene		0.242	U	0.242	0.322
Hexachlorobutadiene		0.162	U	0.162	0.322

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 429

Lab Sample ID: 490-116536-8 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 8.1 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390980	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	120116-24a.D
Dilution:	1.0			Initial Weight/Volume:	33.73 g
Analysis Date:	12/01/2016 1643			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.145	U	0.145	0.322
Hexachloroethane		0.175	U	0.175	0.322
Ideno(1,2,3-cd)pyrene		0.0281	U	0.0281	0.0648
Isophorone		0.182	U	0.182	0.322
1-Methylnaphthalene		0.0271	U	0.0271	0.0648
2-Methylnaphthalene		0.0252	U	0.0252	0.0648
Naphthalene		0.0281	U	0.0281	0.0648
2-Nitroaniline		0.200	U	0.200	0.322
3-Nitroaniline		0.223	U	0.223	0.648
4-Nitroaniline		0.230	U	0.230	0.648
Nitrobenzene		0.194	U	0.194	0.322
2-Nitrophenol		0.235	U	0.235	0.322
4-Nitrophenol		0.370	U	0.370	0.648
N-Nitrosodimethylamine		0.0194	U	0.0194	0.322
N-Nitrosodi-n-propylamine		0.188	U	0.188	0.322
N-Nitrosodiphenylamine		0.0513	U	0.0513	0.322
Pentachlorophenol		0.257	U	0.257	0.648
Phenanthrene		0.0456	J	0.0329	0.0648
Phenol		0.196	U	0.196	0.322
Pyrene		0.0738		0.0329	0.0648
Pyridine		0.193	U	0.193	0.648
1,2,4-Trichlorobenzene		0.175	U	0.175	0.322
2,4,5-Trichlorophenol		0.211	U	0.211	0.322
2,4,6-Trichlorophenol		0.186	U	0.186	0.322

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	56		29 - 120
2-Fluorophenol (Surr)	55		10 - 120
Nitrobenzene-d5 (Surr)	53		27 - 120
Phenol-d5 (Surr)	60		10 - 120
Terphenyl-d14 (Surr)	81		13 - 120
2,4,6-Tribromophenol (Surr)	81		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 430

Lab Sample ID: 490-116539-1 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 13.6 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390980	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	120116-25.D
Dilution:	1.0			Initial Weight/Volume:	35.02 g
Analysis Date:	12/01/2016 1701			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0317	U	0.0317	0.0664
Acenaphthylene		0.0288	U	0.0288	0.0664
Aniline		0.251	U	0.251	0.664
Anthracene		0.0288	U	0.0288	0.0664
Benzidine		0.202	U	0.202	0.330
Benzo(a)anthracene		0.0298	U	0.0298	0.0664
Benzo(a)pyrene		0.0268	U	0.0268	0.0664
Benzo(b)fluoranthene		0.0278	U	0.0278	0.0664
Benzo(g,h,i)perylene		0.0327	U	0.0327	0.0664
Benzoic acid		0.0595	U	0.0595	0.330
Benzo(k)fluoranthene		0.0268	U	0.0268	0.0664
Benzyl alcohol		0.192	U	0.192	0.330
Bis(2-chloroethoxy)methane		0.198	U	0.198	0.330
Bis(2-chloroethyl)ether		0.211	U	0.211	0.330
bis (2-chloroisopropyl) ether		0.196	U	0.196	0.330
Bis(2-ethylhexyl)phthalate		0.205	U	0.205	0.330
4-Bromophenyl phenyl ether		0.203	U	0.203	0.330
Butyl benzyl phthalate		0.213	U	0.213	0.330
Carbazole		0.205	U	0.205	0.330
4-Chloroaniline		0.225	U	0.225	0.330
4-Chloro-3-methylphenol		0.167	U	0.167	0.330
2-Chloronaphthalene		0.207	U	0.207	0.330
2-Chlorophenol		0.189	U	0.189	0.330
4-Chlorophenyl phenyl ether		0.199	U	0.199	0.330
Chrysene		0.0367	U	0.0367	0.0664
Dibenzo(a,h)anthracene		0.0317	U	0.0317	0.0664
Dibenzofuran		0.208	U	0.208	0.330
1,2-Dichlorobenzene		0.188	U	0.188	0.330
1,3-Dichlorobenzene		0.188	U	0.188	0.330
1,4-Dichlorobenzene		0.194	U	0.194	0.330
3,3'-Dichlorobenzidine		0.202	U	0.202	0.664
2,4-Dichlorophenol		0.174	U	0.174	0.330
Diethyl phthalate		0.210	U	0.210	0.330
2,4-Dimethylphenol		0.332	U	0.332	0.664
Dimethyl phthalate		0.205	U	0.205	0.330
Di-n-butyl phthalate		0.209	U	0.209	0.330
4,6-Dinitro-o-cresol		0.227	U *	0.227	0.330
2,4-Dinitrophenol		0.249	U *	0.249	0.330
2,4-Dinitrotoluene		0.206	U	0.206	0.330
2,6-Dinitrotoluene		0.221	U	0.221	0.330
Di-n-octyl phthalate		0.177	U	0.177	0.330
1,2-Diphenylhydrazine (as Azobenzene)		0.232	U	0.232	0.330
Fluoranthene		0.0337	U	0.0337	0.0664
Fluorene		0.0288	U	0.0288	0.0664
Hexachlorobenzene		0.248	U	0.248	0.330
Hexachlorobutadiene		0.166	U	0.166	0.330

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 430

Lab Sample ID: 490-116539-1 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 13.6 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390980	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	120116-25.D
Dilution:	1.0			Initial Weight/Volume:	35.02 g
Analysis Date:	12/01/2016 1701			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.149	U	0.149	0.330
Hexachloroethane		0.180	U	0.180	0.330
Ideno(1,2,3-cd)pyrene		0.0288	U	0.0288	0.0664
Isophorone		0.186	U	0.186	0.330
1-Methylnaphthalene		0.0278	U	0.0278	0.0664
2-Methylnaphthalene		0.0258	U	0.0258	0.0664
Naphthalene		0.0288	U	0.0288	0.0664
2-Nitroaniline		0.205	U	0.205	0.330
3-Nitroaniline		0.228	U	0.228	0.664
4-Nitroaniline		0.236	U	0.236	0.664
Nitrobenzene		0.199	U	0.199	0.330
2-Nitrophenol		0.241	U	0.241	0.330
4-Nitrophenol		0.379	U	0.379	0.664
N-Nitrosodimethylamine		0.0198	U	0.0198	0.330
N-Nitrosodi-n-propylamine		0.192	U	0.192	0.330
N-Nitrosodiphenylamine		0.0526	U	0.0526	0.330
Pentachlorophenol		0.264	U	0.264	0.664
Phenanthrene		0.0337	U	0.0337	0.0664
Phenol		0.201	U	0.201	0.330
Pyrene		0.0337	U	0.0337	0.0664
Pyridine		0.197	U	0.197	0.664
1,2,4-Trichlorobenzene		0.180	U	0.180	0.330
2,4,5-Trichlorophenol		0.216	U	0.216	0.330
2,4,6-Trichlorophenol		0.190	U	0.190	0.330

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	47		29 - 120
2-Fluorophenol (Surr)	44		10 - 120
Nitrobenzene-d5 (Surr)	45		27 - 120
Phenol-d5 (Surr)	48		10 - 120
Terphenyl-d14 (Surr)	71		13 - 120
2,4,6-Tribromophenol (Surr)	72		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 427

Lab Sample ID: 490-116539-2 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 11.4 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390980	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	120116-26.D
Dilution:	1.0			Initial Weight/Volume:	33.98 g
Analysis Date:	12/01/2016 1719			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0319	U	0.0319	0.0668
Acenaphthylene		0.0289	U	0.0289	0.0668
Aniline		0.252	U	0.252	0.668
Anthracene		0.0289	U	0.0289	0.0668
Benzidine		0.203	U	0.203	0.332
Benzo(a)anthracene		0.0299	U	0.0299	0.0668
Benzo(a)pyrene		0.0269	U	0.0269	0.0668
Benzo(b)fluoranthene		0.0279	U	0.0279	0.0668
Benzo(g,h,i)perylene		0.0329	U	0.0329	0.0668
Benzoic acid		0.0598	U	0.0598	0.332
Benzo(k)fluoranthene		0.0269	U	0.0269	0.0668
Benzyl alcohol		0.193	U	0.193	0.332
Bis(2-chloroethoxy)methane		0.199	U	0.199	0.332
Bis(2-chloroethyl)ether		0.212	U	0.212	0.332
bis (2-chloroisopropyl) ether		0.197	U	0.197	0.332
Bis(2-ethylhexyl)phthalate		0.206	U	0.206	0.332
4-Bromophenyl phenyl ether		0.204	U	0.204	0.332
Butyl benzyl phthalate		0.214	U	0.214	0.332
Carbazole		0.206	U	0.206	0.332
4-Chloroaniline		0.226	U	0.226	0.332
4-Chloro-3-methylphenol		0.167	U	0.167	0.332
2-Chloronaphthalene		0.208	U	0.208	0.332
2-Chlorophenol		0.190	U	0.190	0.332
4-Chlorophenyl phenyl ether		0.200	U	0.200	0.332
Chrysene		0.0369	U	0.0369	0.0668
Dibenzo(a,h)anthracene		0.0319	U	0.0319	0.0668
Dibenzofuran		0.209	U	0.209	0.332
1,2-Dichlorobenzene		0.189	U	0.189	0.332
1,3-Dichlorobenzene		0.189	U	0.189	0.332
1,4-Dichlorobenzene		0.195	U	0.195	0.332
3,3'-Dichlorobenzidine		0.203	U	0.203	0.668
2,4-Dichlorophenol		0.174	U	0.174	0.332
Diethyl phthalate		0.211	U	0.211	0.332
2,4-Dimethylphenol		0.334	U	0.334	0.668
Dimethyl phthalate		0.206	U	0.206	0.332
Di-n-butyl phthalate		0.210	U	0.210	0.332
4,6-Dinitro-o-cresol		0.228	U *	0.228	0.332
2,4-Dinitrophenol		0.250	U *	0.250	0.332
2,4-Dinitrotoluene		0.207	U	0.207	0.332
2,6-Dinitrotoluene		0.222	U	0.222	0.332
Di-n-octyl phthalate		0.177	U	0.177	0.332
1,2-Diphenylhydrazine (as Azobenzene)		0.233	U	0.233	0.332
Fluoranthene		0.0339	U	0.0339	0.0668
Fluorene		0.0289	U	0.0289	0.0668
Hexachlorobenzene		0.249	U	0.249	0.332
Hexachlorobutadiene		0.166	U	0.166	0.332

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 427

Lab Sample ID: 490-116539-2 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 11.4 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390980	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	120116-26.D
Dilution:	1.0			Initial Weight/Volume:	33.98 g
Analysis Date:	12/01/2016 1719			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.149	U	0.149	0.332
Hexachloroethane		0.180	U	0.180	0.332
Ideno(1,2,3-cd)pyrene		0.0289	U	0.0289	0.0668
Isophorone		0.187	U	0.187	0.332
1-Methylnaphthalene		0.0279	U	0.0279	0.0668
2-Methylnaphthalene		0.0259	U	0.0259	0.0668
Naphthalene		0.0289	U	0.0289	0.0668
2-Nitroaniline		0.206	U	0.206	0.332
3-Nitroaniline		0.229	U	0.229	0.668
4-Nitroaniline		0.237	U	0.237	0.668
Nitrobenzene		0.200	U	0.200	0.332
2-Nitrophenol		0.242	U	0.242	0.332
4-Nitrophenol		0.381	U	0.381	0.668
N-Nitrosodimethylamine		0.0199	U	0.0199	0.332
N-Nitrosodi-n-propylamine		0.193	U	0.193	0.332
N-Nitrosodiphenylamine		0.0528	U	0.0528	0.332
Pentachlorophenol		0.265	U	0.265	0.668
Phenanthrene		0.0339	U	0.0339	0.0668
Phenol		0.202	U	0.202	0.332
Pyrene		0.0339	U	0.0339	0.0668
Pyridine		0.198	U	0.198	0.668
1,2,4-Trichlorobenzene		0.180	U	0.180	0.332
2,4,5-Trichlorophenol		0.217	U	0.217	0.332
2,4,6-Trichlorophenol		0.191	U	0.191	0.332

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	63		29 - 120
2-Fluorophenol (Surr)	62		10 - 120
Nitrobenzene-d5 (Surr)	60		27 - 120
Phenol-d5 (Surr)	67		10 - 120
Terphenyl-d14 (Surr)	83		13 - 120
2,4,6-Tribromophenol (Surr)	83		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 433

Lab Sample ID: 490-116539-3 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 8.0 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390980	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	120116-27.D
Dilution:	5.0			Initial Weight/Volume:	32.61 g
Analysis Date:	12/01/2016 1737			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.160	U	0.160	0.335
Acenaphthylene		0.145	U	0.145	0.335
Aniline		1.26	U	1.26	3.35
Anthracene		0.145	U	0.145	0.335
Benzidine		1.02	U	1.02	1.66
Benzo(a)anthracene		0.150	U	0.150	0.335
Benzo(a)pyrene		0.135	U	0.135	0.335
Benzo(b)fluoranthene		0.140	U	0.140	0.335
Benzo(g,h,i)perylene		0.165	U	0.165	0.335
Benzoic acid		0.300	U	0.300	1.66
Benzo(k)fluoranthene		0.135	U	0.135	0.335
Benzyl alcohol		0.970	U	0.970	1.66
Bis(2-chloroethoxy)methane		1.00	U	1.00	1.66
Bis(2-chloroethyl)ether		1.06	U	1.06	1.66
bis (2-chloroisopropyl) ether		0.990	U	0.990	1.66
Bis(2-ethylhexyl)phthalate		1.03	U	1.03	1.66
4-Bromophenyl phenyl ether		1.02	U	1.02	1.66
Butyl benzyl phthalate		1.07	U	1.07	1.66
Carbazole		1.03	U	1.03	1.66
4-Chloroaniline		1.13	U	1.13	1.66
4-Chloro-3-methylphenol		0.840	U	0.840	1.66
2-Chloronaphthalene		1.04	U	1.04	1.66
2-Chlorophenol		0.955	U	0.955	1.66
4-Chlorophenyl phenyl ether		1.00	U	1.00	1.66
Chrysene		0.185	U	0.185	0.335
Dibenzo(a,h)anthracene		0.160	U	0.160	0.335
Dibenzofuran		1.05	U	1.05	1.66
1,2-Dichlorobenzene		0.950	U	0.950	1.66
1,3-Dichlorobenzene		0.950	U	0.950	1.66
1,4-Dichlorobenzene		0.980	U	0.980	1.66
3,3'-Dichlorobenzidine		1.02	U	1.02	3.35
2,4-Dichlorophenol		0.875	U	0.875	1.66
Diethyl phthalate		1.06	U	1.06	1.66
2,4-Dimethylphenol		1.67	U	1.67	3.35
Dimethyl phthalate		1.03	U	1.03	1.66
Di-n-butyl phthalate		1.05	U	1.05	1.66
4,6-Dinitro-o-cresol		1.14	U *	1.14	1.66
2,4-Dinitrophenol		1.25	U *	1.25	1.66
2,4-Dinitrotoluene		1.04	U	1.04	1.66
2,6-Dinitrotoluene		1.11	U	1.11	1.66
Di-n-octyl phthalate		0.890	U	0.890	1.66
1,2-Diphenylhydrazine (as Azobenzene)		1.17	U	1.17	1.66
Fluoranthene		0.170	U	0.170	0.335
Fluorene		0.145	U	0.145	0.335
Hexachlorobenzene		1.25	U	1.25	1.66
Hexachlorobutadiene		0.835	U	0.835	1.66

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 433

Lab Sample ID: 490-116539-3 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 8.0 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390980	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	120116-27.D
Dilution:	5.0			Initial Weight/Volume:	32.61 g
Analysis Date:	12/01/2016 1737			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.750	U	0.750	1.66
Hexachloroethane		0.905	U	0.905	1.66
Ideno(1,2,3-cd)pyrene		0.145	U	0.145	0.335
Isophorone		0.940	U	0.940	1.66
1-Methylnaphthalene		0.140	U	0.140	0.335
2-Methylnaphthalene		0.130	U	0.130	0.335
Naphthalene		0.145	U	0.145	0.335
2-Nitroaniline		1.03	U	1.03	1.66
3-Nitroaniline		1.15	U	1.15	3.35
4-Nitroaniline		1.19	U	1.19	3.35
Nitrobenzene		1.00	U	1.00	1.66
2-Nitrophenol		1.21	U	1.21	1.66
4-Nitrophenol		1.91	U	1.91	3.35
N-Nitrosodimethylamine		0.100	U	0.100	1.66
N-Nitrosodi-n-propylamine		0.970	U	0.970	1.66
N-Nitrosodiphenylamine		0.265	U	0.265	1.66
Pentachlorophenol		1.33	U	1.33	3.35
Phenanthrene		0.170	U	0.170	0.335
Phenol		1.01	U	1.01	1.66
Pyrene		0.170	U	0.170	0.335
Pyridine		0.995	U	0.995	3.35
1,2,4-Trichlorobenzene		0.905	U	0.905	1.66
2,4,5-Trichlorophenol		1.09	U	1.09	1.66
2,4,6-Trichlorophenol		0.960	U	0.960	1.66

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	87		29 - 120
2-Fluorophenol (Surr)	78		10 - 120
Nitrobenzene-d5 (Surr)	82		27 - 120
Phenol-d5 (Surr)	86		10 - 120
Terphenyl-d14 (Surr)	100		13 - 120
2,4,6-Tribromophenol (Surr)	101		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 431

Lab Sample ID: 490-116539-4 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 10.2 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390980	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	120116-28.D
Dilution:	5.0			Initial Weight/Volume:	33.93 g
Analysis Date:	12/01/2016 1755			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.158	U	0.158	0.330
Acenaphthylene		0.143	U	0.143	0.330
Aniline		1.25	U	1.25	3.30
Anthracene		0.143	U	0.143	0.330
Benzidine		1.00	U	1.00	1.64
Benzo(a)anthracene		0.161	J	0.148	0.330
Benzo(a)pyrene		0.134	J	0.133	0.330
Benzo(b)fluoranthene		0.157	J	0.138	0.330
Benzo(g,h,i)perylene		0.162	U	0.162	0.330
Benzoic acid		0.295	U	0.295	1.64
Benzo(k)fluoranthene		0.133	U	0.133	0.330
Benzyl alcohol		0.955	U	0.955	1.64
Bis(2-chloroethoxy)methane		0.984	U	0.984	1.64
Bis(2-chloroethyl)ether		1.05	U	1.05	1.64
bis (2-chloroisopropyl) ether		0.975	U	0.975	1.64
Bis(2-ethylhexyl)phthalate		1.02	U	1.02	1.64
4-Bromophenyl phenyl ether		1.01	U	1.01	1.64
Butyl benzyl phthalate		1.06	U	1.06	1.64
Carbazole		1.02	U	1.02	1.64
4-Chloroaniline		1.12	U	1.12	1.64
4-Chloro-3-methylphenol		0.827	U	0.827	1.64
2-Chloronaphthalene		1.03	U	1.03	1.64
2-Chlorophenol		0.940	U	0.940	1.64
4-Chlorophenyl phenyl ether		0.989	U	0.989	1.64
Chrysene		0.182	U	0.182	0.330
Dibenzo(a,h)anthracene		0.158	U	0.158	0.330
Dibenzofuran		1.03	U	1.03	1.64
1,2-Dichlorobenzene		0.935	U	0.935	1.64
1,3-Dichlorobenzene		0.935	U	0.935	1.64
1,4-Dichlorobenzene		0.965	U	0.965	1.64
3,3'-Dichlorobenzidine		1.00	U	1.00	3.30
2,4-Dichlorophenol		0.861	U	0.861	1.64
Diethyl phthalate		1.04	U	1.04	1.64
2,4-Dimethylphenol		1.65	U	1.65	3.30
Dimethyl phthalate		1.02	U	1.02	1.64
Di-n-butyl phthalate		1.04	U	1.04	1.64
4,6-Dinitro-o-cresol		1.13	U *	1.13	1.64
2,4-Dinitrophenol		1.24	U *	1.24	1.64
2,4-Dinitrotoluene		1.02	U	1.02	1.64
2,6-Dinitrotoluene		1.10	U	1.10	1.64
Di-n-octyl phthalate		0.876	U	0.876	1.64
1,2-Diphenylhydrazine (as Azobenzene)		1.15	U	1.15	1.64
Fluoranthene		0.253	J	0.167	0.330
Fluorene		0.143	U	0.143	0.330
Hexachlorobenzene		1.23	U	1.23	1.64
Hexachlorobutadiene		0.822	U	0.822	1.64

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 431

Lab Sample ID: 490-116539-4 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 10.2 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390980	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	120116-28.D
Dilution:	5.0			Initial Weight/Volume:	33.93 g
Analysis Date:	12/01/2016 1755			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.738	U	0.738	1.64
Hexachloroethane		0.891	U	0.891	1.64
Ideno(1,2,3-cd)pyrene		0.143	U	0.143	0.330
Isophorone		0.925	U	0.925	1.64
1-Methylnaphthalene		0.138	U	0.138	0.330
2-Methylnaphthalene		0.128	U	0.128	0.330
Naphthalene		0.143	U	0.143	0.330
2-Nitroaniline		1.02	U	1.02	1.64
3-Nitroaniline		1.13	U	1.13	3.30
4-Nitroaniline		1.17	U	1.17	3.30
Nitrobenzene		0.989	U	0.989	1.64
2-Nitrophenol		1.20	U	1.20	1.64
4-Nitrophenol		1.88	U	1.88	3.30
N-Nitrosodimethylamine		0.0984	U	0.0984	1.64
N-Nitrosodi-n-propylamine		0.955	U	0.955	1.64
N-Nitrosodiphenylamine		0.261	U	0.261	1.64
Pentachlorophenol		1.31	U	1.31	3.30
Phenanthrene		0.184	J	0.167	0.330
Phenol		0.999	U	0.999	1.64
Pyrene		0.273	J	0.167	0.330
Pyridine		0.979	U	0.979	3.30
1,2,4-Trichlorobenzene		0.891	U	0.891	1.64
2,4,5-Trichlorophenol		1.07	U	1.07	1.64
2,4,6-Trichlorophenol		0.945	U	0.945	1.64

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	58		29 - 120
2-Fluorophenol (Surr)	48		10 - 120
Nitrobenzene-d5 (Surr)	48		27 - 120
Phenol-d5 (Surr)	58		10 - 120
Terphenyl-d14 (Surr)	82		13 - 120
2,4,6-Tribromophenol (Surr)	84		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 434

Lab Sample ID: 490-116539-5 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 10.7 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390980	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	120116-29.D
Dilution:	1.0			Initial Weight/Volume:	33.61 g
Analysis Date:	12/01/2016 1813			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0320	U	0.0320	0.0670
Acenaphthylene		0.0290	U	0.0290	0.0670
Aniline		0.253	U	0.253	0.670
Anthracene		0.0290	U	0.0290	0.0670
Benzidine		0.204	U	0.204	0.333
Benzo(a)anthracene		0.0300	U	0.0300	0.0670
Benzo(a)pyrene		0.0270	U	0.0270	0.0670
Benzo(b)fluoranthene		0.0280	U	0.0280	0.0670
Benzo(g,h,i)perylene		0.0330	U	0.0330	0.0670
Benzoic acid		0.0600	U	0.0600	0.333
Benzo(k)fluoranthene		0.0270	U	0.0270	0.0670
Benzyl alcohol		0.194	U	0.194	0.333
Bis(2-chloroethoxy)methane		0.200	U	0.200	0.333
Bis(2-chloroethyl)ether		0.213	U	0.213	0.333
bis (2-chloroisopropyl) ether		0.198	U	0.198	0.333
Bis(2-ethylhexyl)phthalate		0.207	U	0.207	0.333
4-Bromophenyl phenyl ether		0.205	U	0.205	0.333
Butyl benzyl phthalate		0.215	U	0.215	0.333
Carbazole		0.207	U	0.207	0.333
4-Chloroaniline		0.227	U	0.227	0.333
4-Chloro-3-methylphenol		0.168	U	0.168	0.333
2-Chloronaphthalene		0.209	U	0.209	0.333
2-Chlorophenol		0.191	U	0.191	0.333
4-Chlorophenyl phenyl ether		0.201	U	0.201	0.333
Chrysene		0.0370	U	0.0370	0.0670
Dibenzo(a,h)anthracene		0.0320	U	0.0320	0.0670
Dibenzofuran		0.210	U	0.210	0.333
1,2-Dichlorobenzene		0.190	U	0.190	0.333
1,3-Dichlorobenzene		0.190	U	0.190	0.333
1,4-Dichlorobenzene		0.196	U	0.196	0.333
3,3'-Dichlorobenzidine		0.204	U	0.204	0.670
2,4-Dichlorophenol		0.175	U	0.175	0.333
Diethyl phthalate		0.212	U	0.212	0.333
2,4-Dimethylphenol		0.335	U	0.335	0.670
Dimethyl phthalate		0.207	U	0.207	0.333
Di-n-butyl phthalate		0.211	U	0.211	0.333
4,6-Dinitro-o-cresol		0.229	U *	0.229	0.333
2,4-Dinitrophenol		0.251	U *	0.251	0.333
2,4-Dinitrotoluene		0.208	U	0.208	0.333
2,6-Dinitrotoluene		0.223	U	0.223	0.333
Di-n-octyl phthalate		0.178	U	0.178	0.333
1,2-Diphenylhydrazine (as Azobenzene)		0.234	U	0.234	0.333
Fluoranthene		0.0340	U	0.0340	0.0670
Fluorene		0.0290	U	0.0290	0.0670
Hexachlorobenzene		0.250	U	0.250	0.333
Hexachlorobutadiene		0.167	U	0.167	0.333

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 434

Lab Sample ID: 490-116539-5 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 10.7 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390980	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	120116-29.D
Dilution:	1.0			Initial Weight/Volume:	33.61 g
Analysis Date:	12/01/2016 1813			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.150	U	0.150	0.333
Hexachloroethane		0.181	U	0.181	0.333
Ideno(1,2,3-cd)pyrene		0.0290	U	0.0290	0.0670
Isophorone		0.188	U	0.188	0.333
1-Methylnaphthalene		0.0280	U	0.0280	0.0670
2-Methylnaphthalene		0.0260	U	0.0260	0.0670
Naphthalene		0.0290	U	0.0290	0.0670
2-Nitroaniline		0.207	U	0.207	0.333
3-Nitroaniline		0.230	U	0.230	0.670
4-Nitroaniline		0.238	U	0.238	0.670
Nitrobenzene		0.201	U	0.201	0.333
2-Nitrophenol		0.243	U	0.243	0.333
4-Nitrophenol		0.382	U	0.382	0.670
N-Nitrosodimethylamine		0.0200	U	0.0200	0.333
N-Nitrosodi-n-propylamine		0.194	U	0.194	0.333
N-Nitrosodiphenylamine		0.0530	U	0.0530	0.333
Pentachlorophenol		0.266	U	0.266	0.670
Phenanthrene		0.0340	U	0.0340	0.0670
Phenol		0.203	U	0.203	0.333
Pyrene		0.0340	U	0.0340	0.0670
Pyridine		0.199	U	0.199	0.670
1,2,4-Trichlorobenzene		0.181	U	0.181	0.333
2,4,5-Trichlorophenol		0.218	U	0.218	0.333
2,4,6-Trichlorophenol		0.192	U	0.192	0.333

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	73		29 - 120
2-Fluorophenol (Surr)	77		10 - 120
Nitrobenzene-d5 (Surr)	75		27 - 120
Phenol-d5 (Surr)	81		10 - 120
Terphenyl-d14 (Surr)	82		13 - 120
2,4,6-Tribromophenol (Surr)	88		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 423

Lab Sample ID: 490-116539-6 Date Sampled: 11/17/2016 0945
Client Matrix: Soil % Moisture: 17.7 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390980	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	120116-30.D
Dilution:	1.0			Initial Weight/Volume:	36.64 g
Analysis Date:	12/01/2016 1830			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0318	U	0.0318	0.0667
Acenaphthylene		0.0289	U	0.0289	0.0667
Aniline		0.252	U	0.252	0.667
Anthracene		0.0289	U	0.0289	0.0667
Benzidine		0.203	U	0.203	0.331
Benzo(a)anthracene		0.0298	U	0.0298	0.0667
Benzo(a)pyrene		0.0269	U	0.0269	0.0667
Benzo(b)fluoranthene		0.0279	U	0.0279	0.0667
Benzo(g,h,i)perylene		0.0328	U	0.0328	0.0667
Benzoic acid		0.0597	U	0.0597	0.331
Benzo(k)fluoranthene		0.0269	U	0.0269	0.0667
Benzyl alcohol		0.193	U	0.193	0.331
Bis(2-chloroethoxy)methane		0.199	U	0.199	0.331
Bis(2-chloroethyl)ether		0.212	U	0.212	0.331
bis (2-chloroisopropyl) ether		0.197	U	0.197	0.331
Bis(2-ethylhexyl)phthalate		0.206	U	0.206	0.331
4-Bromophenyl phenyl ether		0.204	U	0.204	0.331
Butyl benzyl phthalate		0.214	U	0.214	0.331
Carbazole		0.206	U	0.206	0.331
4-Chloroaniline		0.226	U	0.226	0.331
4-Chloro-3-methylphenol		0.167	U	0.167	0.331
2-Chloronaphthalene		0.208	U	0.208	0.331
2-Chlorophenol		0.190	U	0.190	0.331
4-Chlorophenyl phenyl ether		0.200	U	0.200	0.331
Chrysene		0.0368	U	0.0368	0.0667
Dibenzo(a,h)anthracene		0.0318	U	0.0318	0.0667
Dibenzofuran		0.209	U	0.209	0.331
1,2-Dichlorobenzene		0.189	U	0.189	0.331
1,3-Dichlorobenzene		0.189	U	0.189	0.331
1,4-Dichlorobenzene		0.195	U	0.195	0.331
3,3'-Dichlorobenzidine		0.203	U	0.203	0.667
2,4-Dichlorophenol		0.174	U	0.174	0.331
Diethyl phthalate		0.211	U	0.211	0.331
2,4-Dimethylphenol		0.333	U	0.333	0.667
Dimethyl phthalate		0.206	U	0.206	0.331
Di-n-butyl phthalate		0.210	U	0.210	0.331
4,6-Dinitro-o-cresol		0.228	U *	0.228	0.331
2,4-Dinitrophenol		0.250	U *	0.250	0.331
2,4-Dinitrotoluene		0.207	U	0.207	0.331
2,6-Dinitrotoluene		0.222	U	0.222	0.331
Di-n-octyl phthalate		0.177	U	0.177	0.331
1,2-Diphenylhydrazine (as Azobenzene)		0.233	U	0.233	0.331
Fluoranthene		0.0338	U	0.0338	0.0667
Fluorene		0.0289	U	0.0289	0.0667
Hexachlorobenzene		0.249	U	0.249	0.331
Hexachlorobutadiene		0.166	U	0.166	0.331

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 423

Lab Sample ID: 490-116539-6 Date Sampled: 11/17/2016 0945
Client Matrix: Soil % Moisture: 17.7 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390980	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	120116-30.D
Dilution:	1.0			Initial Weight/Volume:	36.64 g
Analysis Date:	12/01/2016 1830			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.149	U	0.149	0.331
Hexachloroethane		0.180	U	0.180	0.331
Ideno(1,2,3-cd)pyrene		0.0289	U	0.0289	0.0667
Isophorone		0.187	U	0.187	0.331
1-Methylnaphthalene		0.0279	U	0.0279	0.0667
2-Methylnaphthalene		0.0259	U	0.0259	0.0667
Naphthalene		0.0289	U	0.0289	0.0667
2-Nitroaniline		0.206	U	0.206	0.331
3-Nitroaniline		0.229	U	0.229	0.667
4-Nitroaniline		0.237	U	0.237	0.667
Nitrobenzene		0.200	U	0.200	0.331
2-Nitrophenol		0.242	U	0.242	0.331
4-Nitrophenol		0.380	U	0.380	0.667
N-Nitrosodimethylamine		0.0199	U	0.0199	0.331
N-Nitrosodi-n-propylamine		0.193	U	0.193	0.331
N-Nitrosodiphenylamine		0.0527	U	0.0527	0.331
Pentachlorophenol		0.265	U	0.265	0.667
Phenanthrene		0.0338	U	0.0338	0.0667
Phenol		0.202	U	0.202	0.331
Pyrene		0.0338	U	0.0338	0.0667
Pyridine		0.198	U	0.198	0.667
1,2,4-Trichlorobenzene		0.180	U	0.180	0.331
2,4,5-Trichlorophenol		0.217	U	0.217	0.331
2,4,6-Trichlorophenol		0.191	U	0.191	0.331

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	65		29 - 120
2-Fluorophenol (Surr)	60		10 - 120
Nitrobenzene-d5 (Surr)	60		27 - 120
Phenol-d5 (Surr)	67		10 - 120
Terphenyl-d14 (Surr)	85		13 - 120
2,4,6-Tribromophenol (Surr)	85		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 426

Lab Sample ID: 490-116539-7 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 10.6 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390980	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	120116-31.D
Dilution:	1.0			Initial Weight/Volume:	33.64 g
Analysis Date:	12/01/2016 1848			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0319	U	0.0319	0.0669
Acenaphthylene		0.0289	U	0.0289	0.0669
Aniline		0.252	U	0.252	0.669
Anthracene		0.0289	U	0.0289	0.0669
Benzidine		0.204	U	0.204	0.332
Benzo(a)anthracene		0.0424	J	0.0299	0.0669
Benzo(a)pyrene		0.0431	J	0.0269	0.0669
Benzo(b)fluoranthene		0.0558	J	0.0279	0.0669
Benzo(g,h,i)perylene		0.0339	J	0.0329	0.0669
Benzoic acid		0.0599	U	0.0599	0.332
Benzo(k)fluoranthene		0.0352	J	0.0269	0.0669
Benzyl alcohol		0.194	U	0.194	0.332
Bis(2-chloroethoxy)methane		0.200	U	0.200	0.332
Bis(2-chloroethyl)ether		0.213	U	0.213	0.332
bis (2-chloroisopropyl) ether		0.198	U	0.198	0.332
Bis(2-ethylhexyl)phthalate		0.207	U	0.207	0.332
4-Bromophenyl phenyl ether		0.205	U	0.205	0.332
Butyl benzyl phthalate		0.215	U	0.215	0.332
Carbazole		0.207	U	0.207	0.332
4-Chloroaniline		0.227	U	0.227	0.332
4-Chloro-3-methylphenol		0.168	U	0.168	0.332
2-Chloronaphthalene		0.209	U	0.209	0.332
2-Chlorophenol		0.191	U	0.191	0.332
4-Chlorophenyl phenyl ether		0.201	U	0.201	0.332
Chrysene		0.0483	J	0.0369	0.0669
Dibenzo(a,h)anthracene		0.0319	U	0.0319	0.0669
Dibenzofuran		0.210	U	0.210	0.332
1,2-Dichlorobenzene		0.190	U	0.190	0.332
1,3-Dichlorobenzene		0.190	U	0.190	0.332
1,4-Dichlorobenzene		0.196	U	0.196	0.332
3,3'-Dichlorobenzidine		0.204	U	0.204	0.669
2,4-Dichlorophenol		0.175	U	0.175	0.332
Diethyl phthalate		0.212	U	0.212	0.332
2,4-Dimethylphenol		0.334	U	0.334	0.669
Dimethyl phthalate		0.207	U	0.207	0.332
Di-n-butyl phthalate		0.211	U	0.211	0.332
4,6-Dinitro-o-cresol		0.229	U *	0.229	0.332
2,4-Dinitrophenol		0.250	U *	0.250	0.332
2,4-Dinitrotoluene		0.208	U	0.208	0.332
2,6-Dinitrotoluene		0.223	U	0.223	0.332
Di-n-octyl phthalate		0.178	U	0.178	0.332
1,2-Diphenylhydrazine (as Azobenzene)		0.234	U	0.234	0.332
Fluoranthene		0.0900		0.0339	0.0669
Fluorene		0.0289	U	0.0289	0.0669
Hexachlorobenzene		0.250	U	0.250	0.332
Hexachlorobutadiene		0.167	U	0.167	0.332

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 426

Lab Sample ID: 490-116539-7 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 10.6 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390980	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	120116-31.D
Dilution:	1.0			Initial Weight/Volume:	33.64 g
Analysis Date:	12/01/2016 1848			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.150	U	0.150	0.332
Hexachloroethane		0.181	U	0.181	0.332
Ideno(1,2,3-cd)pyrene		0.0304	J	0.0289	0.0669
Isophorone		0.188	U	0.188	0.332
1-Methylnaphthalene		0.0279	U	0.0279	0.0669
2-Methylnaphthalene		0.0259	U	0.0259	0.0669
Naphthalene		0.0289	U	0.0289	0.0669
2-Nitroaniline		0.207	U	0.207	0.332
3-Nitroaniline		0.230	U	0.230	0.669
4-Nitroaniline		0.238	U	0.238	0.669
Nitrobenzene		0.201	U	0.201	0.332
2-Nitrophenol		0.243	U	0.243	0.332
4-Nitrophenol		0.381	U	0.381	0.669
N-Nitrosodimethylamine		0.0200	U	0.0200	0.332
N-Nitrosodi-n-propylamine		0.194	U	0.194	0.332
N-Nitrosodiphenylamine		0.0529	U	0.0529	0.332
Pentachlorophenol		0.265	U	0.265	0.669
Phenanthrene		0.0552	J	0.0339	0.0669
Phenol		0.203	U	0.203	0.332
Pyrene		0.0781		0.0339	0.0669
Pyridine		0.199	U	0.199	0.669
1,2,4-Trichlorobenzene		0.181	U	0.181	0.332
2,4,5-Trichlorophenol		0.218	U	0.218	0.332
2,4,6-Trichlorophenol		0.192	U	0.192	0.332

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	68		29 - 120
2-Fluorophenol (Surr)	66		10 - 120
Nitrobenzene-d5 (Surr)	65		27 - 120
Phenol-d5 (Surr)	74		10 - 120
Terphenyl-d14 (Surr)	89		13 - 120
2,4,6-Tribromophenol (Surr)	94		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 432

Lab Sample ID: 490-116539-8 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 10.0 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390980	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	120116-32.D
Dilution:	1.0			Initial Weight/Volume:	33.73 g
Analysis Date:	12/01/2016 1906			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0316	U	0.0316	0.0662
Acenaphthylene		0.0287	U	0.0287	0.0662
Aniline		0.250	U	0.250	0.662
Anthracene		0.0287	U	0.0287	0.0662
Benzidine		0.202	U	0.202	0.329
Benzo(a)anthracene		0.0296	U	0.0296	0.0662
Benzo(a)pyrene		0.0267	U	0.0267	0.0662
Benzo(b)fluoranthene		0.0277	U	0.0277	0.0662
Benzo(g,h,i)perylene		0.0326	U	0.0326	0.0662
Benzoic acid		0.0593	U	0.0593	0.329
Benzo(k)fluoranthene		0.0267	U	0.0267	0.0662
Benzyl alcohol		0.192	U	0.192	0.329
Bis(2-chloroethoxy)methane		0.198	U	0.198	0.329
Bis(2-chloroethyl)ether		0.210	U	0.210	0.329
bis (2-chloroisopropyl) ether		0.196	U	0.196	0.329
Bis(2-ethylhexyl)phthalate		0.205	U	0.205	0.329
4-Bromophenyl phenyl ether		0.203	U	0.203	0.329
Butyl benzyl phthalate		0.212	U	0.212	0.329
Carbazole		0.205	U	0.205	0.329
4-Chloroaniline		0.224	U	0.224	0.329
4-Chloro-3-methylphenol		0.166	U	0.166	0.329
2-Chloronaphthalene		0.206	U	0.206	0.329
2-Chlorophenol		0.189	U	0.189	0.329
4-Chlorophenyl phenyl ether		0.199	U	0.199	0.329
Chrysene		0.0366	U	0.0366	0.0662
Dibenzo(a,h)anthracene		0.0316	U	0.0316	0.0662
Dibenzofuran		0.207	U	0.207	0.329
1,2-Dichlorobenzene		0.188	U	0.188	0.329
1,3-Dichlorobenzene		0.188	U	0.188	0.329
1,4-Dichlorobenzene		0.194	U	0.194	0.329
3,3'-Dichlorobenzidine		0.202	U	0.202	0.662
2,4-Dichlorophenol		0.173	U	0.173	0.329
Diethyl phthalate		0.209	U	0.209	0.329
2,4-Dimethylphenol		0.331	U	0.331	0.662
Dimethyl phthalate		0.205	U	0.205	0.329
Di-n-butyl phthalate		0.208	U	0.208	0.329
4,6-Dinitro-o-cresol		0.226	U *	0.226	0.329
2,4-Dinitrophenol		0.248	U *	0.248	0.329
2,4-Dinitrotoluene		0.206	U	0.206	0.329
2,6-Dinitrotoluene		0.220	U	0.220	0.329
Di-n-octyl phthalate		0.176	U	0.176	0.329
1,2-Diphenylhydrazine (as Azobenzene)		0.231	U	0.231	0.329
Fluoranthene		0.0336	U	0.0336	0.0662
Fluorene		0.0287	U	0.0287	0.0662
Hexachlorobenzene		0.247	U	0.247	0.329
Hexachlorobutadiene		0.165	U	0.165	0.329

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 432

Lab Sample ID: 490-116539-8 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 10.0 Date Received: 11/19/2016 0920

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390980	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389827	Lab File ID:	120116-32.D
Dilution:	1.0			Initial Weight/Volume:	33.73 g
Analysis Date:	12/01/2016 1906			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.148	U	0.148	0.329
Hexachloroethane		0.179	U	0.179	0.329
Ideno(1,2,3-cd)pyrene		0.0287	U	0.0287	0.0662
Isophorone		0.186	U	0.186	0.329
1-Methylnaphthalene		0.0277	U	0.0277	0.0662
2-Methylnaphthalene		0.0257	U	0.0257	0.0662
Naphthalene		0.0287	U	0.0287	0.0662
2-Nitroaniline		0.205	U	0.205	0.329
3-Nitroaniline		0.227	U	0.227	0.662
4-Nitroaniline		0.235	U	0.235	0.662
Nitrobenzene		0.199	U	0.199	0.329
2-Nitrophenol		0.240	U	0.240	0.329
4-Nitrophenol		0.377	U	0.377	0.662
N-Nitrosodimethylamine		0.0198	U	0.0198	0.329
N-Nitrosodi-n-propylamine		0.192	U	0.192	0.329
N-Nitrosodiphenylamine		0.0524	U	0.0524	0.329
Pentachlorophenol		0.263	U	0.263	0.662
Phenanthrene		0.0336	U	0.0336	0.0662
Phenol		0.201	U	0.201	0.329
Pyrene		0.0336	U	0.0336	0.0662
Pyridine		0.197	U	0.197	0.662
1,2,4-Trichlorobenzene		0.179	U	0.179	0.329
2,4,5-Trichlorophenol		0.215	U	0.215	0.329
2,4,6-Trichlorophenol		0.190	U	0.190	0.329

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	69		29 - 120
2-Fluorophenol (Surr)	68		10 - 120
Nitrobenzene-d5 (Surr)	66		27 - 120
Phenol-d5 (Surr)	73		10 - 120
Terphenyl-d14 (Surr)	87		13 - 120
2,4,6-Tribromophenol (Surr)	87		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 419

Lab Sample ID: 490-116536-1 Date Sampled: 11/17/2016 0815
Client Matrix: Soil % Moisture: 10.5 Date Received: 11/19/2016 0920

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-390855	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390569	Lab File ID:	TALS_113016-4A.asc
Dilution:	1.0			Initial Weight/Volume:	0.507 g
Analysis Date:	11/30/2016 1330			Final Weight/Volume:	100 mL
Prep Date:	11/29/2016 1907				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6390		11.0	22.0
Antimony		1.10	U	1.10	11.0
Arsenic		7.16		1.32	2.20
Barium		28.4		1.10	2.20
Beryllium		0.308	J	0.220	1.10
Cadmium		0.330	J	0.110	1.10
Calcium		541		110	220
Chromium		8.09		0.991	1.10
Cobalt		4.78		1.10	2.20
Copper		17.4		1.21	2.20
Iron		15500		22.0	44.1
Lead		13.7		0.551	1.10
Magnesium		1840		110	220
Manganese		119		1.10	3.30
Nickel		13.6		0.661	2.20
Potassium		503		110	220
Selenium		1.67	J	1.21	2.20
Silver		0.595	J	0.441	1.10
Sodium		143	U	143	220
Thallium		0.661	U	0.661	2.20
Vanadium		11.3		2.20	11.0
Zinc		43.8	B	5.51	11.0

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391209	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.620 g
Analysis Date:	12/02/2016 1005			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 0833				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0324	U	0.0324	0.108

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 420

Lab Sample ID: 490-116536-2 Date Sampled: 11/17/2016 0815
Client Matrix: Soil % Moisture: 10.3 Date Received: 11/19/2016 0920

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-390855	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390569	Lab File ID:	TALS_113016-4A.asc
Dilution:	1.0			Initial Weight/Volume:	0.503 g
Analysis Date:	11/30/2016 1335			Final Weight/Volume:	100 mL
Prep Date:	11/29/2016 1907				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6910		11.1	22.2
Antimony		1.11	U	1.11	11.1
Arsenic		8.35		1.33	2.22
Barium		61.1		1.11	2.22
Beryllium		0.399	J	0.222	1.11
Cadmium		0.288	J	0.111	1.11
Calcium		417		111	222
Chromium		9.26		0.997	1.11
Cobalt		4.01		1.11	2.22
Copper		21.2		1.22	2.22
Iron		13200		22.2	44.3
Lead		14.0		0.554	1.11
Magnesium		1940		111	222
Manganese		92.0		1.11	3.32
Nickel		14.2		0.665	2.22
Potassium		476		111	222
Selenium		1.66	J	1.22	2.22
Silver		0.487	J	0.443	1.11
Sodium		144	U	144	222
Thallium		0.665	U	0.665	2.22
Vanadium		11.6		2.22	11.1
Zinc		56.0	B	5.54	11.1

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391209	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.596 g
Analysis Date:	12/02/2016 1013			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 0833				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0337	U	0.0337	0.112

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 418

Lab Sample ID: 490-116536-3 Date Sampled: 11/17/2016 0815
Client Matrix: Soil % Moisture: 9.4 Date Received: 11/19/2016 0920

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-390855	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390569	Lab File ID:	TALS_113016-4A.asc
Dilution:	1.0			Initial Weight/Volume:	0.520 g
Analysis Date:	11/30/2016 1340			Final Weight/Volume:	100 mL
Prep Date:	11/29/2016 1907				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4880		10.6	21.2
Antimony		1.06	U	1.06	10.6
Arsenic		7.07		1.27	2.12
Barium		52.0		1.06	2.12
Beryllium		0.276	J	0.212	1.06
Cadmium		0.361	J	0.106	1.06
Calcium		1950		106	212
Chromium		6.67		0.955	1.06
Cobalt		4.37		1.06	2.12
Copper		22.2		1.17	2.12
Iron		12300		21.2	42.5
Lead		13.4		0.531	1.06
Magnesium		1760		106	212
Manganese		3490		1.06	3.18
Nickel		11.7		0.637	2.12
Potassium		413		106	212
Selenium		2.74		1.17	2.12
Silver		1.40		0.425	1.06
Sodium		138	U	138	212
Thallium		0.637	U	0.637	2.12
Vanadium		9.66	J	2.12	10.6
Zinc		91.9	B	5.31	10.6

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391209	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.625 g
Analysis Date:	12/02/2016 1016			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 0833				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0318	U	0.0318	0.106

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 407

Lab Sample ID: 490-116536-4 Date Sampled: 11/17/2016 0945
Client Matrix: Soil % Moisture: 11.5 Date Received: 11/19/2016 0920

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-390855	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390569	Lab File ID:	TALS_113016-4A.asc
Dilution:	1.0			Initial Weight/Volume:	0.516 g
Analysis Date:	11/30/2016 1345			Final Weight/Volume:	100 mL
Prep Date:	11/29/2016 1907				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5750		10.9	21.9
Antimony		1.09	U	1.09	10.9
Arsenic		5.28		1.31	2.19
Barium		30.0		1.09	2.19
Beryllium		0.394	J	0.219	1.09
Cadmium		0.263	J	0.109	1.09
Calcium		455		109	219
Chromium		6.07		0.985	1.09
Cobalt		3.15		1.09	2.19
Copper		35.2		1.20	2.19
Iron		9240		21.9	43.8
Lead		10.4		0.547	1.09
Magnesium		1570		109	219
Manganese		93.0		1.09	3.28
Nickel		10.8		0.657	2.19
Potassium		347		109	219
Selenium		1.20	U	1.20	2.19
Silver		0.438	U	0.438	1.09
Sodium		142	U	142	219
Thallium		0.657	U	0.657	2.19
Vanadium		7.77	J	2.19	10.9
Zinc		38.9	B	5.47	10.9

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391209	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.595 g
Analysis Date:	12/02/2016 1018			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 0833				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0342	U	0.0342	0.114

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 424

Lab Sample ID: 490-116536-5 Date Sampled: 11/17/2016 0945
Client Matrix: Soil % Moisture: 16.0 Date Received: 11/19/2016 0920

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-390855	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390569	Lab File ID:	TALS_113016-4A.asc
Dilution:	1.0			Initial Weight/Volume:	0.500 g
Analysis Date:	11/30/2016 1350			Final Weight/Volume:	100 mL
Prep Date:	11/29/2016 1907				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9660		11.9	23.8
Antimony		1.19	U	1.19	11.9
Arsenic		9.64		1.43	2.38
Barium		67.6		1.19	2.38
Beryllium		0.452	J	0.238	1.19
Cadmium		0.262	J	0.119	1.19
Calcium		749		119	238
Chromium		11.9		1.07	1.19
Cobalt		6.59		1.19	2.38
Copper		34.1		1.31	2.38
Iron		16100		23.8	47.6
Lead		24.6		0.595	1.19
Magnesium		2320		119	238
Manganese		229		1.19	3.57
Nickel		16.3		0.714	2.38
Potassium		625		119	238
Selenium		1.93	J	1.31	2.38
Silver		0.666	J	0.476	1.19
Sodium		426		155	238
Thallium		0.714	U	0.714	2.38
Vanadium		16.6		2.38	11.9
Zinc		65.1	B	5.95	11.9

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391209	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.610 g
Analysis Date:	12/02/2016 1021			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 0833				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0361	J	0.0351	0.117

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 425

Lab Sample ID: 490-116536-6 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 12.2 Date Received: 11/19/2016 0920

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-390855	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390569	Lab File ID:	TALS_113016-4A.asc
Dilution:	1.0			Initial Weight/Volume:	0.507 g
Analysis Date:	11/30/2016 1355			Final Weight/Volume:	100 mL
Prep Date:	11/29/2016 1907				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10700		11.2	22.5
Antimony		1.12	U	1.12	11.2
Arsenic		9.93		1.35	2.25
Barium		57.1		1.12	2.25
Beryllium		0.472	J	0.225	1.12
Cadmium		0.135	J	0.112	1.12
Calcium		273		112	225
Chromium		12.3		1.01	1.12
Cobalt		7.01		1.12	2.25
Copper		21.2		1.24	2.25
Iron		16800		22.5	45.0
Lead		14.8		0.562	1.12
Magnesium		2430		112	225
Manganese		559		1.12	3.37
Nickel		16.9		0.674	2.25
Potassium		636		112	225
Selenium		2.09	J	1.24	2.25
Silver		0.764	J	0.450	1.12
Sodium		146	U	146	225
Thallium		0.674	U	0.674	2.25
Vanadium		17.2		2.25	11.2
Zinc		57.7	B	5.62	11.2

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391209	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.596 g
Analysis Date:	12/02/2016 1024			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 0833				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0344	U	0.0344	0.115

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 428

Lab Sample ID: 490-116536-7 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 8.3 Date Received: 11/19/2016 0920

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-390855	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390569	Lab File ID:	TALS_113016-4A.asc
Dilution:	1.0			Initial Weight/Volume:	0.514 g
Analysis Date:	11/30/2016 1411			Final Weight/Volume:	100 mL
Prep Date:	11/29/2016 1907				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6110		10.6	21.2
Antimony		1.06	U	1.06	10.6
Arsenic		7.47		1.27	2.12
Barium		54.0		1.06	2.12
Beryllium		0.297	J	0.212	1.06
Cadmium		0.276	J	0.106	1.06
Calcium		295		106	212
Chromium		8.44		0.955	1.06
Cobalt		4.43		1.06	2.12
Copper		32.3		1.17	2.12
Iron		15000		21.2	42.4
Lead		12.7		0.530	1.06
Magnesium		1710		106	212
Manganese		477		1.06	3.18
Nickel		13.0		0.636	2.12
Potassium		397		106	212
Selenium		1.63	J	1.17	2.12
Silver		0.658	J	0.424	1.06
Sodium		138	U	138	212
Thallium		0.636	U	0.636	2.12
Vanadium		11.0		2.12	10.6
Zinc		62.6	B	5.30	10.6

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391209	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.598 g
Analysis Date:	12/02/2016 1032			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 0833				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0328	U	0.0328	0.109

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 429

Lab Sample ID: 490-116536-8 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 8.1 Date Received: 11/19/2016 0920

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-390855	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390569	Lab File ID:	TALS_113016-4A.asc
Dilution:	1.0			Initial Weight/Volume:	0.497 g
Analysis Date:	11/30/2016 1416			Final Weight/Volume:	100 mL
Prep Date:	11/29/2016 1907				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5680		10.9	21.9
Antimony		1.09	U	1.09	10.9
Arsenic		5.91		1.31	2.19
Barium		49.9		1.09	2.19
Beryllium		0.263	J	0.219	1.09
Cadmium		0.350	J	0.109	1.09
Calcium		574		109	219
Chromium		7.35		0.985	1.09
Cobalt		5.34		1.09	2.19
Copper		19.4		1.20	2.19
Iron		11700		21.9	43.8
Lead		15.2		0.547	1.09
Magnesium		1620		109	219
Manganese		601		1.09	3.28
Nickel		12.3		0.657	2.19
Potassium		447		109	219
Selenium		1.20	U	1.20	2.19
Silver		0.569	J	0.438	1.09
Sodium		142	U	142	219
Thallium		0.657	U	0.657	2.19
Vanadium		11.2		2.19	10.9
Zinc		58.7	B	5.47	10.9

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391209	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.622 g
Analysis Date:	12/02/2016 1035			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 0833				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0315	U	0.0315	0.105

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 430

Lab Sample ID: 490-116539-1 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 13.6 Date Received: 11/19/2016 0920

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390569	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.499 g
Analysis Date:	11/30/2016 1836			Final Weight/Volume:	100 mL
Prep Date:	11/29/2016 1907				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9380		11.6	23.2
Antimony		1.16	U	1.16	11.6
Arsenic		7.52		1.39	2.32
Barium		78.0		1.16	2.32
Beryllium		0.371	J	0.232	1.16
Cadmium		0.510	J	0.116	1.16
Calcium		2750		116	232
Chromium		10.2		1.04	1.16
Cobalt		6.43		1.16	2.32
Copper		18.5		1.28	2.32
Iron		13900		23.2	46.4
Lead		16.9		0.580	1.16
Magnesium		2420		116	232
Manganese		958		1.16	3.48
Nickel		14.1		0.696	2.32
Potassium		568		116	232
Selenium		1.83	J	1.28	2.32
Silver		0.766	J	0.464	1.16
Sodium		151	U	151	232
Thallium		0.719	J	0.696	2.32
Vanadium		16.1		2.32	11.6
Zinc		66.9	B	5.80	11.6

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391309	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.615 g
Analysis Date:	12/02/2016 1325			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 1026				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0339	U	0.0339	0.113

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 427

Lab Sample ID: 490-116539-2 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 11.4 Date Received: 11/19/2016 0920

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390569	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.525 g
Analysis Date:	11/30/2016 1843			Final Weight/Volume:	100 mL
Prep Date:	11/29/2016 1907				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4690		10.7	21.5
Antimony		1.07	U	1.07	10.7
Arsenic		5.98		1.29	2.15
Barium		147		1.07	2.15
Beryllium		0.215	J	0.215	1.07
Cadmium		0.580	J	0.107	1.07
Calcium		665		107	215
Chromium		5.83		0.967	1.07
Cobalt		4.38		1.07	2.15
Copper		13.7		1.18	2.15
Iron		7970		21.5	43.0
Lead		9.48		0.537	1.07
Magnesium		1140		107	215
Manganese		730		1.07	3.22
Nickel		10.3		0.645	2.15
Potassium		310		107	215
Selenium		1.18	U	1.18	2.15
Silver		0.494	J	0.430	1.07
Sodium		190	J	140	215
Thallium		0.645	U	0.645	2.15
Vanadium		7.78	J	2.15	10.7
Zinc		52.4	B	5.37	10.7

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391309	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.624 g
Analysis Date:	12/02/2016 1328			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 1026				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0326	U	0.0326	0.109

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 433

Lab Sample ID: 490-116539-3 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 8.0 Date Received: 11/19/2016 0920

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390569	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.495 g
Analysis Date:	11/30/2016 1858			Final Weight/Volume:	100 mL
Prep Date:	11/29/2016 1907				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7040		11.0	21.9
Antimony		1.10	U	1.10	11.0
Arsenic		22.1		1.32	2.19
Barium		30.1		1.10	2.19
Beryllium		0.307	J	0.219	1.10
Cadmium		0.395	J	0.110	1.10
Calcium		242		110	219
Cobalt		6.61		1.10	2.19
Copper		31.2		1.21	2.19
Iron		26400		21.9	43.9
Lead		256		0.549	1.10
Magnesium		1920		110	219
Manganese		245		1.10	3.29
Nickel		17.1		0.658	2.19
Potassium		538		110	219
Selenium		2.74		1.21	2.19
Silver		1.21		0.439	1.10
Sodium		143	U	143	219
Thallium		0.658	U	0.658	2.19
Vanadium		11.9		2.19	11.0
Zinc		96.0	B	5.49	11.0

Analysis Method:	6010C	Analysis Batch:	490-391229	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-390569	Lab File ID:	TALS_120116-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.495 g
Analysis Date:	12/01/2016 1708			Final Weight/Volume:	100 mL
Prep Date:	11/29/2016 1907				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		9.09		0.988	1.10

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391309	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.625 g
Analysis Date:	12/02/2016 1331			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 1026				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.114		0.0313	0.104

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 431

Lab Sample ID: 490-116539-4 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 10.2 Date Received: 11/19/2016 0920

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390569	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.496 g
Analysis Date:	11/30/2016 1903			Final Weight/Volume:	100 mL
Prep Date:	11/29/2016 1907				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10500		11.2	22.4
Antimony		1.12	U	1.12	11.2
Arsenic		8.75		1.35	2.24
Barium		75.0		1.12	2.24
Beryllium		0.404	J	0.224	1.12
Cadmium		0.292	J	0.112	1.12
Calcium		329		112	224
Cobalt		6.37		1.12	2.24
Copper		19.6		1.23	2.24
Iron		17000		22.4	44.9
Lead		17.4		0.561	1.12
Magnesium		1960		112	224
Manganese		630		1.12	3.37
Nickel		15.4		0.673	2.24
Potassium		581		112	224
Selenium		2.07	J	1.23	2.24
Silver		0.808	J	0.449	1.12
Sodium		146	U	146	224
Thallium		0.673	U	0.673	2.24
Vanadium		17.5		2.24	11.2
Zinc		71.5	B	5.61	11.2

Analysis Method:	6010C	Analysis Batch:	490-391229	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-390569	Lab File ID:	TALS_120116-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.496 g
Analysis Date:	12/01/2016 1714			Final Weight/Volume:	100 mL
Prep Date:	11/29/2016 1907				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		10.1		1.01	1.12

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391309	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.612 g
Analysis Date:	12/02/2016 1333			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 1026				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0327	U	0.0327	0.109

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 434

Lab Sample ID: 490-116539-5 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 10.7 Date Received: 11/19/2016 0920

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390663	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.496 g
Analysis Date:	12/01/2016 0704			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1017				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10500		11.3	22.6
Antimony		1.13	U	1.13	11.3
Arsenic		10.9		1.36	2.26
Barium		52.3		1.13	2.26
Beryllium		0.452	J	0.226	1.13
Cadmium		0.294	J	0.113	1.13
Calcium		471		113	226
Cobalt		10.9		1.13	2.26
Copper		23.6		1.24	2.26
Iron		21200		22.6	45.2
Lead		15.6		0.565	1.13
Magnesium		1960		113	226
Nickel		19.6		0.678	2.26
Selenium		1.94	J	1.24	2.26
Thallium		0.678	U	0.678	2.26
Vanadium		15.9		2.26	11.3
Zinc		53.2		5.65	11.3

Analysis Method:	6010C	Analysis Batch:	490-391227	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390663	Lab File ID:	TALS_120116-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.496 g
Analysis Date:	12/02/2016 0107			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1017				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		11.2		1.02	1.13
Manganese		387		1.13	3.39
Potassium		500		113	226
Silver		0.926	J	0.452	1.13
Sodium		147	U	147	226

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391309	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.623 g
Analysis Date:	12/02/2016 1336			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 1026				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0324	U	0.0324	0.108

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 423

Lab Sample ID: 490-116539-6 Date Sampled: 11/17/2016 0945
Client Matrix: Soil % Moisture: 17.7 Date Received: 11/19/2016 0920

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390663	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.504 g
Analysis Date:	12/01/2016 0740			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1017				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		11900		12.1	24.1
Antimony		1.21	U	1.21	12.1
Arsenic		12.2		1.45	2.41
Barium		71.7		1.21	2.41
Beryllium		0.579	J	0.241	1.21
Cadmium		0.410	J	0.121	1.21
Calcium		1720		121	241
Cobalt		8.65		1.21	2.41
Copper		17.1		1.33	2.41
Iron		18300		24.1	48.2
Lead		26.1		0.603	1.21
Magnesium		3310		121	241
Nickel		17.2		0.723	2.41
Selenium		1.40	J	1.33	2.41
Thallium		0.723	U	0.723	2.41
Vanadium		19.0		2.41	12.1
Zinc		65.7		6.03	12.1

Analysis Method:	6010C	Analysis Batch:	490-391227	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390663	Lab File ID:	TALS_120116-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.504 g
Analysis Date:	12/02/2016 0142			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1017				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		16.1		1.08	1.21
Manganese		411		1.21	3.62
Potassium		785		121	241
Silver		0.723	J	0.482	1.21
Sodium		157	U	157	241

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391309	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.623 g
Analysis Date:	12/02/2016 1339			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 1026				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0354	J	0.0351	0.117

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 426

Lab Sample ID: 490-116539-7 Date Sampled: 11/17/2016 1045
Client Matrix: Soil % Moisture: 10.6 Date Received: 11/19/2016 0920

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390663	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.523 g
Analysis Date:	12/01/2016 0745			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1017				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7530		10.7	21.4
Antimony		1.07	U	1.07	10.7
Arsenic		7.32		1.28	2.14
Barium		72.1		1.07	2.14
Beryllium		0.407	J	0.214	1.07
Cadmium		0.492	J	0.107	1.07
Calcium		872		107	214
Cobalt		7.66		1.07	2.14
Copper		19.0		1.18	2.14
Iron		14500		21.4	42.8
Lead		14.4		0.535	1.07
Magnesium		1820		107	214
Nickel		16.5		0.642	2.14
Selenium		1.37	J	1.18	2.14
Thallium		0.642	U	0.642	2.14
Vanadium		11.7		2.14	10.7
Zinc		85.2		5.35	10.7

Analysis Method:	6010C	Analysis Batch:	490-391227	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390663	Lab File ID:	TALS_120116-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.523 g
Analysis Date:	12/02/2016 0147			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1017				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		8.75		0.963	1.07
Manganese		961		1.07	3.21
Potassium		381		107	214
Silver		0.728	J	0.428	1.07
Sodium		139	U	139	214

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391309	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.625 g
Analysis Date:	12/02/2016 1342			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 1026				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0563	J	0.0322	0.107

Client: Roux Associates, Inc. Job Number: 490-116536-1

Client Sample ID: END 432

Lab Sample ID: 490-116539-8 Date Sampled: 11/17/2016 1300
Client Matrix: Soil % Moisture: 10.0 Date Received: 11/19/2016 0920

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390663	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.514 g
Analysis Date:	12/01/2016 0750			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1017				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7560		10.8	21.6
Antimony		1.08	U	1.08	10.8
Arsenic		6.76		1.30	2.16
Barium		35.6		1.08	2.16
Beryllium		0.346	J	0.216	1.08
Cadmium		0.346	J	0.108	1.08
Calcium		353		108	216
Cobalt		4.93		1.08	2.16
Copper		12.1		1.19	2.16
Iron		10500		21.6	43.2
Lead		8.90		0.540	1.08
Magnesium		1880		108	216
Nickel		14.3		0.648	2.16
Selenium		1.19	U	1.19	2.16
Thallium		0.648	U	0.648	2.16
Vanadium		9.49	J	2.16	10.8
Zinc		45.8		5.40	10.8

Analysis Method:	6010C	Analysis Batch:	490-391227	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390663	Lab File ID:	TALS_120116-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.514 g
Analysis Date:	12/02/2016 0152			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1017				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		8.00		0.973	1.08
Manganese		333		1.08	3.24
Potassium		360		108	216
Silver		0.432	U	0.432	1.08
Sodium		140	U	140	216

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391309	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.609 g
Analysis Date:	12/02/2016 1344			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 1026				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0328	U	0.0328	0.109

General Chemistry

Client Sample ID: **END 419**

Lab Sample ID: 490-116536-1 Date Sampled: 11/17/2016 0815
Client Matrix: Soil Date Received: 11/19/2016 0920

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	89.5		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388758 Analysis Date: 11/22/2016 1005 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 420**

Lab Sample ID: 490-116536-2 Date Sampled: 11/17/2016 0815
Client Matrix: Soil Date Received: 11/19/2016 0920

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	89.7		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388758 Analysis Date: 11/22/2016 1005 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 418**

Lab Sample ID: 490-116536-3 Date Sampled: 11/17/2016 0815
Client Matrix: Soil Date Received: 11/19/2016 0920

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	90.6		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388758 Analysis Date: 11/22/2016 1005 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 407**

Lab Sample ID: 490-116536-4 Date Sampled: 11/17/2016 0945
Client Matrix: Soil Date Received: 11/19/2016 0920

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	88.5		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388758 Analysis Date: 11/22/2016 1005 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 424**

Lab Sample ID: 490-116536-5 Date Sampled: 11/17/2016 0945
Client Matrix: Soil Date Received: 11/19/2016 0920

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	84.0		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388758 Analysis Date: 11/22/2016 1005 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 425**

Lab Sample ID: 490-116536-6 Date Sampled: 11/17/2016 1045
Client Matrix: Soil Date Received: 11/19/2016 0920

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	87.8		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388758 Analysis Date: 11/22/2016 1005 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 428**

Lab Sample ID: 490-116536-7 Date Sampled: 11/17/2016 1045
Client Matrix: Soil Date Received: 11/19/2016 0920

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	91.7		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388758 Analysis Date: 11/22/2016 1005 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 429**

Lab Sample ID: 490-116536-8 Date Sampled: 11/17/2016 1045
Client Matrix: Soil Date Received: 11/19/2016 0920

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	91.9		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388758 Analysis Date: 11/22/2016 1005 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 430**

Lab Sample ID: 490-116539-1 Date Sampled: 11/17/2016 1300
Client Matrix: Soil Date Received: 11/19/2016 0920

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	86.4		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388758 Analysis Date: 11/22/2016 1005 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 427**

Lab Sample ID: 490-116539-2 Date Sampled: 11/17/2016 1045
Client Matrix: Soil Date Received: 11/19/2016 0920

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	88.6		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388758 Analysis Date: 11/22/2016 1007 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 433**

Lab Sample ID: 490-116539-3 Date Sampled: 11/17/2016 1300
Client Matrix: Soil Date Received: 11/19/2016 0920

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	92.0		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388758 Analysis Date: 11/22/2016 1007 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 431**

Lab Sample ID: 490-116539-4 Date Sampled: 11/17/2016 1300
Client Matrix: Soil Date Received: 11/19/2016 0920

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	89.8		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388758 Analysis Date: 11/22/2016 1007 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 434**

Lab Sample ID: 490-116539-5 Date Sampled: 11/17/2016 1300
Client Matrix: Soil Date Received: 11/19/2016 0920

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	89.3		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388813 Analysis Date: 11/22/2016 1059 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 423**

Lab Sample ID: 490-116539-6 Date Sampled: 11/17/2016 0945
Client Matrix: Soil Date Received: 11/19/2016 0920

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	82.3		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388813 Analysis Date: 11/22/2016 1059 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 426**

Lab Sample ID: 490-116539-7 Date Sampled: 11/17/2016 1045
Client Matrix: Soil Date Received: 11/19/2016 0920

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	89.4		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388813 Analysis Date: 11/22/2016 1059 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 432**

Lab Sample ID: 490-116539-8 Date Sampled: 11/17/2016 1300
Client Matrix: Soil Date Received: 11/19/2016 0920

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	90.0		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388813 Analysis Date: 11/22/2016 1059 DryWt Corrected: N

DATA REPORTING QUALIFIERS

Client: Roux Associates, Inc. Job Number: 490-116536-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Analyzed for but not detected.
	E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.
	J	Indicates an estimated value.
	*	ISTD response or retention time outside acceptable limits
	*	MS or MSD is outside acceptance limits.
	*	RPD of the LCS and LCSD exceeds the control limits
	*	Surrogate is outside acceptance limits.
	B	The analyte was found in an associated blank, as well as in the sample.
	N	This flag indicates the presumptive evidence of a compound.
GC/MS Semi VOA		
	U	Analyzed for but not detected.
	J	Indicates an estimated value.
	*	LCS or LCSD is outside acceptance limits.
	*	MS or MSD is outside acceptance limits.
Metals		
	B	Compound was found in the blank and sample.
	U	Indicates analyzed for but not detected.
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
	J	Sample result is greater than the MDL but below the CRDL
	N	Spiked sample recovery is not within control limits.

QUALITY CONTROL RESULTS

Client: Roux Associates, Inc. Job Number: 490-116536-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 490-388496					
490-116536-2	END 420	T	Solid	5035A	
490-116536-3	END 418	T	Solid	5035A	
490-116536-5	END 424	T	Solid	5035A	
490-116539-8	END 432	T	Solid	5035A	
Prep Batch: 490-388503					
490-116536-1	END 419	T	Solid	5035A	
490-116536-3	END 418	T	Solid	5035A	
490-116536-4	END 407	T	Solid	5035A	
490-116536-5	END 424	T	Solid	5035A	
490-116536-6	END 425	T	Solid	5035A	
490-116536-7	END 428	T	Solid	5035A	
490-116536-8	END 429	T	Solid	5035A	
490-116539-1	END 430	T	Solid	5035A	
490-116539-2	END 427	T	Solid	5035A	
490-116539-3	END 433	T	Solid	5035A	
490-116539-4	END 431	T	Solid	5035A	
490-116539-5	END 434	T	Solid	5035A	
490-116539-6	END 423	T	Solid	5035A	
490-116539-7	END 426	T	Solid	5035A	
490-116539-9TB	Trip Blank	T	Solid	5035A	
Analysis Batch:490-389632					
LCS 490-389632/4	Lab Control Sample	T	Solid	8260C	
LCSD 490-389632/8	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-389632/7	Method Blank	T	Solid	8260C	
490-116536-1	END 419	T	Solid	8260C	490-388503
490-116536-3	END 418	T	Solid	8260C	490-388503
490-116536-5	END 424	T	Solid	8260C	490-388503
490-116536-6	END 425	T	Solid	8260C	490-388503
490-116536-7	END 428	T	Solid	8260C	490-388503

Client: Roux Associates, Inc. Job Number: 490-116536-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:490-390023					
LCS 490-390023/4	Lab Control Sample	T	Solid	8260C	
LCSD 490-390023/5	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-390023/8	Method Blank	T	Solid	8260C	
490-116536-3	END 418	T	Solid	8260C	490-388503
490-116536-4	END 407	T	Solid	8260C	490-388503
490-116536-8	END 429	T	Solid	8260C	490-388503
490-116539-1	END 430	T	Solid	8260C	490-388503
490-116539-2	END 427	T	Solid	8260C	490-388503
490-116539-2MS	Matrix Spike	T	Solid	8260C	490-390136
490-116539-2MSD	Matrix Spike Duplicate	T	Solid	8260C	490-390136
490-116539-3	END 433	T	Solid	8260C	490-388503
490-116539-4	END 431	T	Solid	8260C	490-388503
490-116539-5	END 434	T	Solid	8260C	490-388503
490-116539-6	END 423	T	Solid	8260C	490-388503
490-116539-7	END 426	T	Solid	8260C	490-388503
490-116539-9TB	Trip Blank	T	Solid	8260C	490-388503
Prep Batch: 490-390136					
490-116539-2MS	Matrix Spike	T	Solid	5035A	
490-116539-2MSD	Matrix Spike Duplicate	T	Solid	5035A	
Analysis Batch:490-390503					
LCS 490-390503/5	Lab Control Sample	T	Solid	8260C	
LCSD 490-390503/6	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-390503/9	Method Blank	T	Solid	8260C	
490-116536-2	END 420	T	Solid	8260C	490-388496
490-116536-3	END 418	T	Solid	8260C	490-388496
490-116536-5	END 424	T	Solid	8260C	490-388496
490-116539-8	END 432	T	Solid	8260C	490-388496

Report Basis
T = Total

Client: Roux Associates, Inc. Job Number: 490-116536-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 490-389827					
LCS 490-389827/2-A	Lab Control Sample	T	Solid	3550C	
MB 490-389827/1-A	Method Blank	T	Solid	3550C	
490-116536-1	END 419	T	Solid	3550C	
490-116536-2	END 420	T	Solid	3550C	
490-116536-3	END 418	T	Solid	3550C	
490-116536-3MS	Matrix Spike	T	Solid	3550C	
490-116536-3MSD	Matrix Spike Duplicate	T	Solid	3550C	
490-116536-4	END 407	T	Solid	3550C	
490-116536-5	END 424	T	Solid	3550C	
490-116536-6	END 425	T	Solid	3550C	
490-116536-7	END 428	T	Solid	3550C	
490-116536-8	END 429	T	Solid	3550C	
490-116539-1	END 430	T	Solid	3550C	
490-116539-2	END 427	T	Solid	3550C	
490-116539-3	END 433	T	Solid	3550C	
490-116539-4	END 431	T	Solid	3550C	
490-116539-5	END 434	T	Solid	3550C	
490-116539-6	END 423	T	Solid	3550C	
490-116539-7	END 426	T	Solid	3550C	
490-116539-8	END 432	T	Solid	3550C	
Analysis Batch:490-390541					
LCS 490-389827/2-A	Lab Control Sample	T	Solid	8270D	490-389827
MB 490-389827/1-A	Method Blank	T	Solid	8270D	490-389827
490-116536-1	END 419	T	Solid	8270D	490-389827
490-116536-2	END 420	T	Solid	8270D	490-389827
490-116536-3	END 418	T	Solid	8270D	490-389827
490-116536-3MS	Matrix Spike	T	Solid	8270D	490-389827
490-116536-3MSD	Matrix Spike Duplicate	T	Solid	8270D	490-389827
490-116536-4	END 407	T	Solid	8270D	490-389827
490-116536-5	END 424	T	Solid	8270D	490-389827
490-116536-6	END 425	T	Solid	8270D	490-389827
Analysis Batch:490-390980					
490-116536-7	END 428	T	Solid	8270D	490-389827
490-116536-8	END 429	T	Solid	8270D	490-389827
490-116539-1	END 430	T	Solid	8270D	490-389827
490-116539-2	END 427	T	Solid	8270D	490-389827
490-116539-3	END 433	T	Solid	8270D	490-389827
490-116539-4	END 431	T	Solid	8270D	490-389827
490-116539-5	END 434	T	Solid	8270D	490-389827
490-116539-6	END 423	T	Solid	8270D	490-389827
490-116539-7	END 426	T	Solid	8270D	490-389827
490-116539-8	END 432	T	Solid	8270D	490-389827

Client: Roux Associates, Inc. Job Number: 490-116536-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch

Report Basis
T = Total

Client: Roux Associates, Inc. Job Number: 490-116536-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 490-390569					
LCS 490-390569/2-A	Lab Control Sample	T	Solid	3051A	
MB 490-390569/1-A	Method Blank	T	Solid	3051A	
280-91340-B-7-B MS	Matrix Spike	T	Solid	3051A	
280-91340-B-7-C MSD	Matrix Spike Duplicate	T	Solid	3051A	
490-116536-1	END 419	T	Solid	3051A	
490-116536-2	END 420	T	Solid	3051A	
490-116536-3	END 418	T	Solid	3051A	
490-116536-4	END 407	T	Solid	3051A	
490-116536-5	END 424	T	Solid	3051A	
490-116536-6	END 425	T	Solid	3051A	
490-116536-7	END 428	T	Solid	3051A	
490-116536-8	END 429	T	Solid	3051A	
490-116539-1	END 430	T	Solid	3051A	
490-116539-2	END 427	T	Solid	3051A	
490-116539-3	END 433	T	Solid	3051A	
490-116539-4	END 431	T	Solid	3051A	
Prep Batch: 490-390663					
LCS 490-390663/2-A	Lab Control Sample	T	Solid	3051A	
MB 490-390663/1-A	Method Blank	T	Solid	3051A	
490-116539-5	END 434	T	Solid	3051A	
490-116539-5MS	Matrix Spike	T	Solid	3051A	
490-116539-5MSD	Matrix Spike Duplicate	T	Solid	3051A	
490-116539-6	END 423	T	Solid	3051A	
490-116539-7	END 426	T	Solid	3051A	
490-116539-8	END 432	T	Solid	3051A	
Analysis Batch:490-390855					
LCS 490-390569/2-A	Lab Control Sample	T	Solid	6010C	490-390569
MB 490-390569/1-A	Method Blank	T	Solid	6010C	490-390569
280-91340-B-7-B MS	Matrix Spike	T	Solid	6010C	490-390569
280-91340-B-7-C MSD	Matrix Spike Duplicate	T	Solid	6010C	490-390569
490-116536-1	END 419	T	Solid	6010C	490-390569
490-116536-2	END 420	T	Solid	6010C	490-390569
490-116536-3	END 418	T	Solid	6010C	490-390569
490-116536-4	END 407	T	Solid	6010C	490-390569
490-116536-5	END 424	T	Solid	6010C	490-390569
490-116536-6	END 425	T	Solid	6010C	490-390569
490-116536-7	END 428	T	Solid	6010C	490-390569
490-116536-8	END 429	T	Solid	6010C	490-390569

Client: Roux Associates, Inc. Job Number: 490-116536-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:490-391031					
LCS 490-390663/2-A	Lab Control Sample	T	Solid	6010C	490-390663
MB 490-390663/1-A	Method Blank	T	Solid	6010C	490-390663
490-116539-1	END 430	T	Solid	6010C	490-390569
490-116539-2	END 427	T	Solid	6010C	490-390569
490-116539-3	END 433	T	Solid	6010C	490-390569
490-116539-4	END 431	T	Solid	6010C	490-390569
490-116539-5	END 434	T	Solid	6010C	490-390663
490-116539-5MS	Matrix Spike	T	Solid	6010C	490-390663
490-116539-5MSD	Matrix Spike Duplicate	T	Solid	6010C	490-390663
490-116539-6	END 423	T	Solid	6010C	490-390663
490-116539-7	END 426	T	Solid	6010C	490-390663
490-116539-8	END 432	T	Solid	6010C	490-390663
Prep Batch: 490-391209					
LCS 490-391209/2-A	Lab Control Sample	T	Solid	7471B	
MB 490-391209/1-A	Method Blank	T	Solid	7471B	
490-116536-1	END 419	T	Solid	7471B	
490-116536-1MS	Matrix Spike	T	Solid	7471B	
490-116536-1MSD	Matrix Spike Duplicate	T	Solid	7471B	
490-116536-2	END 420	T	Solid	7471B	
490-116536-3	END 418	T	Solid	7471B	
490-116536-4	END 407	T	Solid	7471B	
490-116536-5	END 424	T	Solid	7471B	
490-116536-6	END 425	T	Solid	7471B	
490-116536-7	END 428	T	Solid	7471B	
490-116536-8	END 429	T	Solid	7471B	
Analysis Batch:490-391227					
LCS 490-390663/2-A	Lab Control Sample	T	Solid	6010C	490-390663
MB 490-390663/1-A	Method Blank	T	Solid	6010C	490-390663
490-116539-5	END 434	T	Solid	6010C	490-390663
490-116539-5MS	Matrix Spike	T	Solid	6010C	490-390663
490-116539-5MSD	Matrix Spike Duplicate	T	Solid	6010C	490-390663
490-116539-6	END 423	T	Solid	6010C	490-390663
490-116539-7	END 426	T	Solid	6010C	490-390663
490-116539-8	END 432	T	Solid	6010C	490-390663
Analysis Batch:490-391229					
490-116539-3	END 433	T	Solid	6010C	490-390569
490-116539-4	END 431	T	Solid	6010C	490-390569

Client: Roux Associates, Inc. Job Number: 490-116536-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 490-391309					
LCS 490-391309/2-A	Lab Control Sample	T	Solid	7471B	
MB 490-391309/1-A	Method Blank	T	Solid	7471B	
490-116539-1	END 430	T	Solid	7471B	
490-116539-2	END 427	T	Solid	7471B	
490-116539-3	END 433	T	Solid	7471B	
490-116539-4	END 431	T	Solid	7471B	
490-116539-5	END 434	T	Solid	7471B	
490-116539-6	END 423	T	Solid	7471B	
490-116539-7	END 426	T	Solid	7471B	
490-116539-8	END 432	T	Solid	7471B	
490-116560-D-1-D MS	Matrix Spike	T	Solid	7471B	
490-116560-D-1-E MSD	Matrix Spike Duplicate	T	Solid	7471B	
Analysis Batch:490-391382					
LCS 490-391209/2-A	Lab Control Sample	T	Solid	7471B	490-391209
MB 490-391209/1-A	Method Blank	T	Solid	7471B	490-391209
LCS 490-391309/2-A	Lab Control Sample	T	Solid	7471B	490-391309
MB 490-391309/1-A	Method Blank	T	Solid	7471B	490-391309
490-116536-1	END 419	T	Solid	7471B	490-391209
490-116536-1MS	Matrix Spike	T	Solid	7471B	490-391209
490-116536-1MSD	Matrix Spike Duplicate	T	Solid	7471B	490-391209
490-116536-2	END 420	T	Solid	7471B	490-391209
490-116536-3	END 418	T	Solid	7471B	490-391209
490-116536-4	END 407	T	Solid	7471B	490-391209
490-116536-5	END 424	T	Solid	7471B	490-391209
490-116536-6	END 425	T	Solid	7471B	490-391209
490-116536-7	END 428	T	Solid	7471B	490-391209
490-116536-8	END 429	T	Solid	7471B	490-391209
490-116539-1	END 430	T	Solid	7471B	490-391309
490-116539-2	END 427	T	Solid	7471B	490-391309
490-116539-3	END 433	T	Solid	7471B	490-391309
490-116539-4	END 431	T	Solid	7471B	490-391309
490-116539-5	END 434	T	Solid	7471B	490-391309
490-116539-6	END 423	T	Solid	7471B	490-391309
490-116539-7	END 426	T	Solid	7471B	490-391309
490-116539-8	END 432	T	Solid	7471B	490-391309
490-116560-D-1-D MS	Matrix Spike	T	Solid	7471B	490-391309
490-116560-D-1-E MSD	Matrix Spike Duplicate	T	Solid	7471B	490-391309

Report Basis
T = Total

Client: Roux Associates, Inc. Job Number: 490-116536-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:490-388758					
490-116536-1	END 419	T	Solid	Moisture	
490-116536-1DU	Duplicate	T	Solid	Moisture	
490-116536-2	END 420	T	Solid	Moisture	
490-116536-3	END 418	T	Solid	Moisture	
490-116536-4	END 407	T	Solid	Moisture	
490-116536-5	END 424	T	Solid	Moisture	
490-116536-6	END 425	T	Solid	Moisture	
490-116536-7	END 428	T	Solid	Moisture	
490-116536-8	END 429	T	Solid	Moisture	
490-116536-8MS	Matrix Spike	T	Solid	Moisture	
490-116536-8MSD	Matrix Spike Duplicate	T	Solid	Moisture	
490-116539-1	END 430	T	Solid	Moisture	
490-116539-1MS	Matrix Spike	T	Solid	Moisture	
490-116539-1MSD	Matrix Spike Duplicate	T	Solid	Moisture	
490-116539-2	END 427	T	Solid	Moisture	
490-116539-3	END 433	T	Solid	Moisture	
490-116539-4	END 431	T	Solid	Moisture	
Analysis Batch:490-388813					
490-116539-5	END 434	T	Solid	Moisture	
490-116539-5DU	Duplicate	T	Solid	Moisture	
490-116539-6	END 423	T	Solid	Moisture	
490-116539-7	END 426	T	Solid	Moisture	
490-116539-8	END 432	T	Solid	Moisture	
490-116559-E-1 MS	Matrix Spike	T	Solid	Moisture	
490-116559-E-1 MSD	Matrix Spike Duplicate	T	Solid	Moisture	

Report Basis
T = Total

Client: Roux Associates, Inc. Job Number: 490-116536-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
490-116536-1	END 419	99	108	102	102
490-116536-3	END 418	2928*	104	216*	447*
490-116536-4	END 407	98	98	95	100
490-116536-5	END 424	117	88	95	191*
490-116536-6	END 425	96	107	104	97
490-116536-7	END 428	98	109	108	96
490-116536-8	END 429	92	117	104	99
490-116539-1	END 430	91	114	112	99
490-116539-2	END 427	92	115	112	96
490-116539-3	END 433	103	108	106	99
490-116539-4	END 431	93	114	108	96
490-116539-5	END 434	97	106	100	102
490-116539-6	END 423	93	113	112	96
490-116539-7	END 426	94	118	106	96
490-116539-9	Trip Blank	92	113	109	99
MB 490-389632/7		91	118	112	97
MB 490-390023/8		93	116	111	96
LCS 490-389632/4		92	98	91	99
LCS 490-390023/4		94	94	90	97
LCSD 490-389632/8		90	99	93	100
LCSD 490-390023/5		95	96	91	100
490-116539-2 MS	END 427 MS	100	94	89	99
490-116539-2 MSD	END 427 MSD	97	95	88	100

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	70-130
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130

Client: Roux Associates, Inc. Job Number: 490-116536-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
490-116536-2	END 420	91	121	121	95
490-116536-3	END 418	99	100	105	106
490-116536-5	END 424	95	96	100	105
490-116539-8	END 432	95	112	109	95
MB 490-390503/9		92	118	112	97
LCS 490-390503/5		92	98	92	98
LCSD 490-390503/6		93	98	91	99

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	70-130
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130

Client: Roux Associates, Inc. Job Number: 490-116536-1

Surrogate Recovery Report

8270D Semivolatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	FBP %Rec	2FP %Rec	NBZ %Rec	PHL %Rec	TPHL %Rec	TBP %Rec
490-116536-1	END 419	72	65	67	71	80	80
490-116536-2	END 420	62	47	52	55	73	76
490-116536-3	END 418	73	53	78	61	71	80
490-116536-4	END 407	51	48	48	53	65	66
490-116536-5	END 424	87	65	80	78	100	101
490-116536-6	END 425	57	51	50	56	81	83
490-116536-7	END 428	56	56	54	58	70	71
490-116536-8	END 429	56	55	53	60	81	81
490-116539-1	END 430	47	44	45	48	71	72
490-116539-2	END 427	63	62	60	67	83	83
490-116539-3	END 433	87	78	82	86	100	101
490-116539-4	END 431	58	48	48	58	82	84
490-116539-5	END 434	73	77	75	81	82	88
490-116539-6	END 423	65	60	60	67	85	85
490-116539-7	END 426	68	66	65	74	89	94
490-116539-8	END 432	69	68	66	73	87	87
MB 490-389827/1-A		30	28	28	31	40	33
LCS 490-389827/2-A		76	74	81	79	90	85
490-116536-3 MS	END 418 MS	68	46	73	53	72	78
490-116536-3 MSD	END 418 MSD	73	52	72	59	78	85

Surrogate	Acceptance Limits
FBP = 2-Fluorobiphenyl (Surr)	29-120
2FP = 2-Fluorophenol (Surr)	10-120
NBZ = Nitrobenzene-d5 (Surr)	27-120
PHL = Phenol-d5 (Surr)	10-120
TPHL = Terphenyl-d14 (Surr)	13-120
TBP = 2,4,6-Tribromophenol (Surr)	10-120

Client: Roux Associates, Inc. Job Number: 490-116536-1

Method Blank - Batch: 490-389632

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-389632/7	Analysis Batch:	490-389632	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112516-06.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/25/2016 1457	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	0.00840	U	0.00840	0.0500
Benzene	0.000670	U	0.000670	0.00200
Bromobenzene	0.000720	U	0.000720	0.00200
Bromochloromethane	0.000550	U	0.000550	0.00200
Bromodichloromethane	0.000550	U	0.000550	0.00200
Bromoform	0.000550	U	0.000550	0.00200
Bromomethane	0.00120	U	0.00120	0.00200
2-Butanone (MEK)	0.00510	U	0.00510	0.0500
Carbon disulfide	0.00360	U	0.00360	0.00500
Carbon tetrachloride	0.000670	U	0.000670	0.00200
Chlorobenzene	0.000670	U	0.000670	0.00200
Chloroethane	0.00190	U	0.00190	0.00500
Chloroform	0.000670	U	0.000670	0.00200
Chloromethane	0.000670	U	0.000670	0.00200
cis-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
cis-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
Dibromochloromethane	0.000340	U	0.000340	0.00200
1,2-Dibromo-3-chloropropane	0.000700	U	0.000700	0.00500
1,2-Dibromoethane	0.00100	U	0.00100	0.00200
1,2-Dichlorobenzene	0.000340	U	0.000340	0.00200
1,3-Dichlorobenzene	0.000670	U	0.000670	0.00200
1,4-Dichlorobenzene	0.000670	U	0.000670	0.00200
Dichlorodifluoromethane	0.00100	U	0.00100	0.00200
1,1-Dichloroethane	0.000670	U	0.000670	0.00200
1,2-Dichloroethane	0.000670	U	0.000670	0.00200
1,1-Dichloroethene	0.000570	U	0.000570	0.00200
1,2-Dichloropropane	0.000940	U	0.000940	0.00200
1,3-Dichloropropane	0.000940	U	0.000940	0.00200
2,2-Dichloropropane	0.000670	U	0.000670	0.00200
1,1-Dichloropropene	0.000510	U	0.000510	0.00200
Ethylbenzene	0.000670	U	0.000670	0.00200
Hexachlorobutadiene	0.00114	U	0.00114	0.00500
2-Hexanone	0.0167	U	0.0167	0.0500
Iodomethane	0.00670	U	0.00670	0.0200
Isopropylbenzene	0.000410	U	0.000410	0.00200
Methylene bromide	0.000560	U	0.000560	0.00200
Methylene Chloride	0.000860	U	0.000860	0.0100
4-Methyl-2-pentanone (MIBK)	0.00190	U	0.00190	0.0500
Methyl tert butyl ether	0.000960	U	0.000960	0.00200
m,p-Xylene	0.000560	U	0.000560	0.00400
Naphthalene	0.00170	U	0.00170	0.00500
n-Butylbenzene	0.000980	U	0.000980	0.00200
N-Propylbenzene	0.000670	U	0.000670	0.00200
o-Chlorotoluene	0.000890	U	0.000890	0.00200
o-Xylene	0.000670	U	0.000670	0.00200

Client: Roux Associates, Inc. Job Number: 490-116536-1

Method Blank - Batch: 490-389632

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-389632/7	Analysis Batch:	490-389632	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112516-06.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/25/2016 1457	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.000840	U	0.000840	0.00200
p-Isopropyltoluene	0.000670	U	0.000670	0.00200
sec-Butylbenzene	0.000670	U	0.000670	0.00200
Styrene	0.00110	U	0.00110	0.00200
tert-Butylbenzene	0.000900	U	0.000900	0.00200
1,1,1,2-Tetrachloroethane	0.000670	U	0.000670	0.00200
1,1,2,2-Tetrachloroethane	0.00100	U	0.00100	0.00200
Tetrachloroethene	0.000730	U	0.000730	0.00200
Toluene	0.000740	U	0.000740	0.00200
trans-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
trans-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
1,2,3-Trichlorobenzene	0.000380	U	0.000380	0.00200
1,2,4-Trichlorobenzene	0.000670	U	0.000670	0.00200
1,1,1-Trichloroethane	0.000920	U	0.000920	0.00200
1,1,2-Trichloroethane	0.00140	U	0.00140	0.00500
Trichloroethene	0.000960	U	0.000960	0.00200
Trichlorofluoromethane	0.00100	U	0.00100	0.00200
1,2,3-Trichloropropane	0.000550	U	0.000550	0.00200
1,2,4-Trimethylbenzene	0.00100	U	0.00100	0.00200
1,3,5-Trimethylbenzene	0.000750	U	0.000750	0.00200
Vinyl acetate	0.00440	U	0.00440	0.0200
Vinyl chloride	0.00110	U	0.00110	0.00200
Xylenes (total)	0.00123	U	0.00123	0.00600

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	91	70 - 130
Dibromofluoromethane (Surr)	118	70 - 130
1,2-Dichloroethane-d4 (Surr)	112	70 - 130
Toluene-d8 (Surr)	97	70 - 130

Method Blank TICs- Batch: 490-389632

Cas Number	Analyte	RT	Est. Result (mg	Qual
90-12-0	1-Methylnaphthalene	12.39	0.002346	J
91-57-6	2-Methylnaphthalene	12.22	0.003030	J
541-05-9	Cyclotrisiloxane, hexamethyl-	5.60	0.009353	J N

Client: Roux Associates, Inc. Job Number: 490-116536-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-389632

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-389632/4	Analysis Batch:	490-389632	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112516-03.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/25/2016 1328	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-389632/8	Analysis Batch:	490-389632	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112516-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/25/2016 1527	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	112	101	45 - 145	10	38		
Benzene	122	97	70 - 130	22	37		
Bromobenzene	105	80	67 - 130	26	40		
Bromochloromethane	112	87	70 - 133	25	15		*
Bromodichloromethane	102	82	70 - 130	21	20		*
Bromoform	90	67	59 - 137	29	17		*
Bromomethane	121	91	32 - 150	29	45		
2-Butanone (MEK)	110	89	50 - 149	21	39		
Carbon disulfide	110	88	66 - 138	22	41		
Carbon tetrachloride	102	80	70 - 131	23	41		
Chlorobenzene	111	87	70 - 130	25	40		
Chloroethane	104	85	37 - 150	20	50		
Chloroform	114	91	70 - 130	23	15		*
Chloromethane	91	73	53 - 150	21	47		
cis-1,2-Dichloroethene	118	94	70 - 132	23	18		*
cis-1,3-Dichloropropene	107	81	70 - 130	27	42		
Dibromochloromethane	94	73	70 - 130	25	14		*
1,2-Dibromo-3-chloropropane	93	76	47 - 144	20	38		
1,2-Dibromoethane	115	90	69 - 130	24	17		*
1,2-Dichlorobenzene	116	88	70 - 134	28	40		
1,3-Dichlorobenzene	115	86	69 - 137	29	41		
1,4-Dichlorobenzene	117	85	66 - 134	32	41		
Dichlorodifluoromethane	99	80	32 - 150	21	50		
1,1-Dichloroethane	113	89	70 - 130	23	42		
1,2-Dichloroethane	103	82	65 - 134	22	16		*
1,1-Dichloroethene	113	91	70 - 131	22	43		
1,2-Dichloropropane	114	91	70 - 130	22	15		*
1,3-Dichloropropane	111	88	70 - 130	23	15		*
2,2-Dichloropropane	103	82	57 - 150	22	42		
1,1-Dichloropropene	113	89	70 - 130	24	41		
Ethylbenzene	118	93	70 - 130	23	38		
Hexachlorobutadiene	113	93	64 - 137	20	44		
2-Hexanone	109	93	47 - 148	16	38		
Isopropylbenzene	116	90	70 - 130	25	39		
Methylene bromide	108	84	70 - 130	26	19		*

Client: Roux Associates, Inc. Job Number: 490-116536-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-389632

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-389632/4	Analysis Batch:	490-389632	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112516-03.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/25/2016 1328	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-389632/8	Analysis Batch:	490-389632	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112516-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/25/2016 1527	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	112	89	69 - 130	23	19		*
4-Methyl-2-pentanone (MIBK)	105	90	48 - 150	15	41		
Methyl tert butyl ether	117	92	54 - 145	24	36		
m,p-Xylene	114	90	70 - 130	23	38		
Naphthalene	124	91	55 - 149	31	37		
n-Butylbenzene	122	93	57 - 150	27	39		
N-Propylbenzene	117	89	62 - 150	27	38		
o-Chlorotoluene	110	85	70 - 132	26	41		
o-Xylene	115	90	70 - 130	24	38		
p-Chlorotoluene	112	85	67 - 135	27	41		
p-Isopropyltoluene	121	95	66 - 147	24	38		
sec-Butylbenzene	122	96	68 - 147	24	38		
Styrene	112	86	70 - 131	26	40		
tert-Butylbenzene	110	89	70 - 138	21	38		
1,1,1,2-Tetrachloroethane	98	77	70 - 130	23	41		
1,1,2,2-Tetrachloroethane	103	83	61 - 134	22	16		*
Tetrachloroethene	105	84	70 - 130	22	41		
Toluene	118	96	70 - 130	21	40		
trans-1,2-Dichloroethene	112	88	70 - 130	24	41		
trans-1,3-Dichloropropene	102	78	67 - 130	27	41		
1,2,3-Trichlorobenzene	116	83	57 - 146	33	42		
1,2,4-Trichlorobenzene	118	80	47 - 150	38	43		
1,1,1-Trichloroethane	107	87	70 - 130	20	41		
1,1,2-Trichloroethane	115	89	70 - 130	26	17		*
Trichloroethene	112	91	70 - 130	21	41		
Trichlorofluoromethane	103	84	53 - 150	20	49		
1,2,3-Trichloropropane	106	86	60 - 139	21	16		*
1,2,4-Trimethylbenzene	122	92	70 - 140	28	38		
1,3,5-Trimethylbenzene	114	89	69 - 141	24	38		
Vinyl acetate	128	73	10 - 150	54	50		*
Vinyl chloride	100	79	63 - 150	23	46		
Xylenes (total)	114	90	70 - 130	24	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	92	90	70 - 130
Dibromofluoromethane (Surr)	98	99	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116536-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91	93	70 - 130
Toluene-d8 (Surr)	99	100	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116536-1

Method Blank - Batch: 490-390023

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-390023/8	Analysis Batch:	490-390023	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112816-08.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/28/2016 1231	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	0.00840	U	0.00840	0.0500
Benzene	0.000670	U	0.000670	0.00200
Bromobenzene	0.000720	U	0.000720	0.00200
Bromochloromethane	0.000550	U	0.000550	0.00200
Bromodichloromethane	0.000550	U	0.000550	0.00200
Bromoform	0.000550	U	0.000550	0.00200
Bromomethane	0.00120	U	0.00120	0.00200
2-Butanone (MEK)	0.00510	U	0.00510	0.0500
Carbon disulfide	0.00360	U	0.00360	0.00500
Carbon tetrachloride	0.000670	U	0.000670	0.00200
Chlorobenzene	0.000670	U	0.000670	0.00200
Chloroethane	0.00190	U	0.00190	0.00500
Chloroform	0.000670	U	0.000670	0.00200
Chloromethane	0.000670	U	0.000670	0.00200
cis-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
cis-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
Dibromochloromethane	0.000340	U	0.000340	0.00200
1,2-Dibromo-3-chloropropane	0.000700	U	0.000700	0.00500
1,2-Dibromoethane	0.00100	U	0.00100	0.00200
1,2-Dichlorobenzene	0.000340	U	0.000340	0.00200
1,3-Dichlorobenzene	0.000670	U	0.000670	0.00200
1,4-Dichlorobenzene	0.000670	U	0.000670	0.00200
Dichlorodifluoromethane	0.00100	U	0.00100	0.00200
1,1-Dichloroethane	0.000670	U	0.000670	0.00200
1,2-Dichloroethane	0.000670	U	0.000670	0.00200
1,1-Dichloroethene	0.000570	U	0.000570	0.00200
1,2-Dichloropropane	0.000940	U	0.000940	0.00200
1,3-Dichloropropane	0.000940	U	0.000940	0.00200
2,2-Dichloropropane	0.000670	U	0.000670	0.00200
1,1-Dichloropropene	0.000510	U	0.000510	0.00200
Ethylbenzene	0.000670	U	0.000670	0.00200
Hexachlorobutadiene	0.00114	U	0.00114	0.00500
2-Hexanone	0.0167	U	0.0167	0.0500
Iodomethane	0.00670	U	0.00670	0.0200
Isopropylbenzene	0.000410	U	0.000410	0.00200
Methylene bromide	0.000560	U	0.000560	0.00200
Methylene Chloride	0.000860	U	0.000860	0.0100
4-Methyl-2-pentanone (MIBK)	0.00190	U	0.00190	0.0500
Methyl tert butyl ether	0.000960	U	0.000960	0.00200
m,p-Xylene	0.000560	U	0.000560	0.00400
Naphthalene	0.00170	U	0.00170	0.00500
n-Butylbenzene	0.000980	U	0.000980	0.00200
N-Propylbenzene	0.000670	U	0.000670	0.00200
o-Chlorotoluene	0.000890	U	0.000890	0.00200
o-Xylene	0.000670	U	0.000670	0.00200

Client: Roux Associates, Inc. Job Number: 490-116536-1

Method Blank - Batch: 490-390023

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-390023/8	Analysis Batch:	490-390023	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112816-08.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/28/2016 1231	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.000840	U	0.000840	0.00200
p-Isopropyltoluene	0.000670	U	0.000670	0.00200
sec-Butylbenzene	0.000670	U	0.000670	0.00200
Styrene	0.00110	U	0.00110	0.00200
tert-Butylbenzene	0.000900	U	0.000900	0.00200
1,1,1,2-Tetrachloroethane	0.000670	U	0.000670	0.00200
1,1,2,2-Tetrachloroethane	0.00100	U	0.00100	0.00200
Tetrachloroethene	0.000730	U	0.000730	0.00200
Toluene	0.000740	U	0.000740	0.00200
trans-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
trans-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
1,2,3-Trichlorobenzene	0.000380	U	0.000380	0.00200
1,2,4-Trichlorobenzene	0.000670	U	0.000670	0.00200
1,1,1-Trichloroethane	0.000920	U	0.000920	0.00200
1,1,2-Trichloroethane	0.00140	U	0.00140	0.00500
Trichloroethene	0.000960	U	0.000960	0.00200
Trichlorofluoromethane	0.00100	U	0.00100	0.00200
1,2,3-Trichloropropane	0.000550	U	0.000550	0.00200
1,2,4-Trimethylbenzene	0.00100	U	0.00100	0.00200
1,3,5-Trimethylbenzene	0.000750	U	0.000750	0.00200
Vinyl acetate	0.00440	U	0.00440	0.0200
Vinyl chloride	0.00110	U	0.00110	0.00200
Xylenes (total)	0.00123	U	0.00123	0.00600

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	93	70 - 130
Dibromofluoromethane (Surr)	116	70 - 130
1,2-Dichloroethane-d4 (Surr)	111	70 - 130
Toluene-d8 (Surr)	96	70 - 130

Method Blank TICs- Batch: 490-390023

Cas Number	Analyte	RT	Est. Result (mg	Qual
90-12-0	1-Methylnaphthalene	12.42	0.002402	J
91-57-6	2-Methylnaphthalene	12.24	0.003136	J
556-67-2	Cyclotetrasiloxane, octamethyl-	7.75	0.006940	J N
541-05-9	Cyclotrisiloxane, hexamethyl-	5.63	0.009064	J N

Client: Roux Associates, Inc. Job Number: 490-116536-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-390023

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-390023/4	Analysis Batch:	490-390023	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112816-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/28/2016 1033	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-390023/5	Analysis Batch:	490-390023	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112816-05.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/28/2016 1102	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	127	116	45 - 145	9	38		
Benzene	121	110	70 - 130	10	37		
Bromobenzene	113	106	67 - 130	7	40		
Bromochloromethane	115	103	70 - 133	11	15		
Bromodichloromethane	107	98	70 - 130	8	20		
Bromoform	102	97	59 - 137	5	17		
Bromomethane	109	102	32 - 150	6	45		
2-Butanone (MEK)	123	114	50 - 149	7	39		
Carbon disulfide	112	100	66 - 138	12	41		
Carbon tetrachloride	103	94	70 - 131	9	41		
Chlorobenzene	114	105	70 - 130	8	40		
Chloroethane	94	85	37 - 150	10	50		
Chloroform	114	103	70 - 130	10	15		
Chloromethane	86	77	53 - 150	11	47		
cis-1,2-Dichloroethene	112	107	70 - 132	4	18		
cis-1,3-Dichloropropene	111	103	70 - 130	7	42		
Dibromochloromethane	104	96	70 - 130	8	14		
1,2-Dibromo-3-chloropropane	113	107	47 - 144	5	38		
1,2-Dibromoethane	123	117	69 - 130	5	17		
1,2-Dichlorobenzene	121	111	70 - 134	9	40		
1,3-Dichlorobenzene	121	110	69 - 137	9	41		
1,4-Dichlorobenzene	118	110	66 - 134	7	41		
Dichlorodifluoromethane	95	86	32 - 150	11	50		
1,1-Dichloroethane	111	102	70 - 130	9	42		
1,2-Dichloroethane	107	100	65 - 134	7	16		
1,1-Dichloroethene	113	101	70 - 131	11	43		
1,2-Dichloropropane	116	106	70 - 130	9	15		
1,3-Dichloropropane	117	111	70 - 130	5	15		
2,2-Dichloropropane	103	94	57 - 150	9	42		
1,1-Dichloropropene	114	100	70 - 130	13	41		
Ethylbenzene	121	111	70 - 130	8	38		
Hexachlorobutadiene	123	113	64 - 137	8	44		
2-Hexanone	121	119	47 - 148	2	38		
Isopropylbenzene	122	113	70 - 130	7	39		
Methylene bromide	112	106	70 - 130	6	19		

Client: Roux Associates, Inc. Job Number: 490-116536-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-390023

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-390023/4	Analysis Batch:	490-390023	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112816-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/28/2016 1033	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-390023/5	Analysis Batch:	490-390023	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112816-05.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/28/2016 1102	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	113	102	69 - 130	10	19		
4-Methyl-2-pentanone (MIBK)	117	115	48 - 150	1	41		
Methyl tert butyl ether	122	113	54 - 145	8	36		
m,p-Xylene	120	111	70 - 130	8	38		
Naphthalene	137	128	55 - 149	7	37		
n-Butylbenzene	127	116	57 - 150	9	39		
N-Propylbenzene	121	112	62 - 150	8	38		
o-Chlorotoluene	116	107	70 - 132	8	41		
o-Xylene	118	112	70 - 130	6	38		
p-Chlorotoluene	117	106	67 - 135	10	41		
p-Isopropyltoluene	126	116	66 - 147	8	38		
sec-Butylbenzene	124	115	68 - 147	8	38		
Styrene	117	110	70 - 131	6	40		
tert-Butylbenzene	117	108	70 - 138	8	38		
1,1,1,2-Tetrachloroethane	103	97	70 - 130	6	41		
1,1,2,2-Tetrachloroethane	115	109	61 - 134	5	16		
Tetrachloroethene	111	100	70 - 130	10	41		
Toluene	118	114	70 - 130	4	40		
trans-1,2-Dichloroethene	110	101	70 - 130	8	41		
trans-1,3-Dichloropropene	107	99	67 - 130	8	41		
1,2,3-Trichlorobenzene	126	114	57 - 146	9	42		
1,2,4-Trichlorobenzene	128	114	47 - 150	12	43		
1,1,1-Trichloroethane	108	100	70 - 130	7	41		
1,1,2-Trichloroethane	118	110	70 - 130	7	17		
Trichloroethene	119	105	70 - 130	12	41		
Trichlorofluoromethane	97	89	53 - 150	9	49		
1,2,3-Trichloropropane	117	111	60 - 139	5	16		
1,2,4-Trimethylbenzene	125	112	70 - 140	11	38		
1,3,5-Trimethylbenzene	120	110	69 - 141	9	38		
Vinyl acetate	127	108	10 - 150	16	50		
Vinyl chloride	96	85	63 - 150	12	46		
Xylenes (total)	119	111	70 - 130	7	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	94	95	70 - 130
Dibromofluoromethane (Surr)	94	96	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116536-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90	91	70 - 130
Toluene-d8 (Surr)	97	100	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116536-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-390136

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116539-2	Analysis Batch:	490-390023	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	490-390136	Lab File ID:	112816-21.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.10 g
Analysis Date:	11/28/2016 1855			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1206				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116539-2	Analysis Batch:	490-390023	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	490-390136	Lab File ID:	112816-22.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.14 g
Analysis Date:	11/28/2016 1925			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1206				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	-21	-14	10 - 150	5	50	*	*
Benzene	87	94	21 - 150	6	50		
Bromobenzene	77	78	10 - 150	0	50		
Bromochloromethane	88	91	10 - 150	2	50		
Bromodichloromethane	77	82	10 - 150	6	50		
Bromoform	58	64	10 - 150	8	50		
Bromomethane	88	90	10 - 150	2	50		
2-Butanone (MEK)	74	82	10 - 150	8	50		
Carbon disulfide	84	89	10 - 150	5	50		
Carbon tetrachloride	75	84	10 - 150	10	50		
Chlorobenzene	81	82	10 - 150	1	50		
Chloroethane	76	79	10 - 150	3	50		
Chloroform	87	94	10 - 150	7	50		
Chloromethane	74	72	10 - 150	3	50		
cis-1,2-Dichloroethene	85	88	10 - 150	3	50		
cis-1,3-Dichloropropene	79	85	10 - 150	7	50		
Dibromochloromethane	67	70	10 - 150	4	50		
1,2-Dibromo-3-chloropropane	61	63	10 - 150	2	50		
1,2-Dibromoethane	85	92	10 - 150	7	50		
1,2-Dichlorobenzene	69	70	10 - 150	1	50		
1,3-Dichlorobenzene	73	74	10 - 150	1	50		
1,4-Dichlorobenzene	71	71	10 - 150	1	50		
Dichlorodifluoromethane	75	81	10 - 150	7	50		
1,1-Dichloroethane	85	89	10 - 150	4	50		
1,2-Dichloroethane	82	85	24 - 138	3	50		
1,1-Dichloroethene	86	91	10 - 150	4	50		
1,2-Dichloropropane	87	92	10 - 150	5	50		
1,3-Dichloropropane	86	89	10 - 150	3	50		
2,2-Dichloropropane	78	86	10 - 150	9	50		
1,1-Dichloropropene	80	94	10 - 150	14	50		
Ethylbenzene	89	94	10 - 150	6	50		
Hexachlorobutadiene	59	67	10 - 150	12	50		

Client: Roux Associates, Inc. Job Number: 490-116536-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-390136

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116539-2	Analysis Batch:	490-390023	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	490-390136	Lab File ID:	112816-21.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.10 g
Analysis Date:	11/28/2016 1855			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1206				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116539-2	Analysis Batch:	490-390023	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	490-390136	Lab File ID:	112816-22.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.14 g
Analysis Date:	11/28/2016 1925			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1206				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2-Hexanone	83	90	10 - 150	8	50		
Isopropylbenzene	88	94	10 - 150	7	50		
Methylene bromide	84	88	10 - 150	4	50		
Methylene Chloride	100	100	24 - 150	1	50		
4-Methyl-2-pentanone (MIBK)	86	90	10 - 150	3	50		
Methyl tert butyl ether	93	95	10 - 150	2	50		
m,p-Xylene	84	94	10 - 150	10	50		
Naphthalene	35	32	10 - 150	10	50		
n-Butylbenzene	75	80	10 - 150	6	50		
N-Propylbenzene	84	89	10 - 150	5	50		
o-Chlorotoluene	80	83	10 - 150	3	50		
o-Xylene	86	92	10 - 150	6	50		
p-Chlorotoluene	76	80	10 - 150	5	50		
p-Isopropyltoluene	77	85	10 - 150	8	50		
sec-Butylbenzene	82	89	10 - 150	7	50		
Styrene	9	6	10 - 150	37	50	*	*
tert-Butylbenzene	78	86	10 - 150	9	50		
1,1,1,2-Tetrachloroethane	73	77	10 - 150	5	50		
1,1,2,2-Tetrachloroethane	81	82	10 - 150	0	50		
Tetrachloroethene	80	88	10 - 150	9	50		
Toluene	95	100	17 - 150	4	50		
trans-1,2-Dichloroethene	85	90	10 - 150	5	50		
trans-1,3-Dichloropropene	74	79	10 - 150	6	50		
1,2,3-Trichlorobenzene	43	41	10 - 150	5	50		
1,2,4-Trichlorobenzene	51	48	10 - 150	6	50		
1,1,1-Trichloroethane	82	90	10 - 150	9	50		
1,1,2-Trichloroethane	92	94	10 - 150	2	50		
Trichloroethene	89	96	10 - 150	8	50		
Trichlorofluoromethane	79	81	10 - 150	2	50		
1,2,3-Trichloropropane	80	81	10 - 150	1	50		
1,2,4-Trimethylbenzene	76	78	10 - 150	2	50		
1,3,5-Trimethylbenzene	79	84	10 - 150	6	50		

Client: Roux Associates, Inc. Job Number: 490-116536-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-390136

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116539-2	Analysis Batch:	490-390023	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	490-390136	Lab File ID:	112816-21.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.10 g
Analysis Date:	11/28/2016 1855			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1206				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116539-2	Analysis Batch:	490-390023	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	490-390136	Lab File ID:	112816-22.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.14 g
Analysis Date:	11/28/2016 1925			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1206				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Vinyl acetate	68	66	10 - 150	5	50		
Vinyl chloride	77	80	10 - 150	3	50		
Xylenes (total)	85	93	10 - 150	8	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	100	97	70 - 130
Dibromofluoromethane (Surr)	94	95	70 - 130
1,2-Dichloroethane-d4 (Surr)	89	88	70 - 130
Toluene-d8 (Surr)	99	100	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116536-1

Method Blank - Batch: 490-390503

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-390503/9	Analysis Batch:	490-390503	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112916-35.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/30/2016 0205	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	2.00	U	2.00	2.50
Benzene	0.0340	U	0.0340	0.100
Bromobenzene	0.0360	U	0.0360	0.100
Bromochloromethane	0.0280	U	0.0280	0.100
Bromodichloromethane	0.0280	U	0.0280	0.100
Bromoform	0.0280	U	0.0280	0.100
Bromomethane	0.0600	U	0.0600	0.100
2-Butanone (MEK)	0.260	U	0.260	2.50
Carbon disulfide	0.180	U	0.180	0.250
Carbon tetrachloride	0.0340	U	0.0340	0.100
Chlorobenzene	0.0340	U	0.0340	0.100
Chloroethane	0.0950	U	0.0950	0.250
Chloroform	0.0340	U	0.0340	0.100
Chloromethane	0.0340	U	0.0340	0.100
cis-1,2-Dichloroethene	0.0340	U	0.0340	0.100
cis-1,3-Dichloropropene	0.0340	U	0.0340	0.100
Dibromochloromethane	0.0170	U	0.0170	0.100
1,2-Dibromo-3-chloropropane	0.0350	U	0.0350	0.250
1,2-Dibromoethane	0.0500	U	0.0500	0.100
1,2-Dichlorobenzene	0.0170	U	0.0170	0.100
1,3-Dichlorobenzene	0.0340	U	0.0340	0.100
1,4-Dichlorobenzene	0.0470	U	0.0470	0.100
Dichlorodifluoromethane	0.0500	U	0.0500	0.100
1,1-Dichloroethane	0.0340	U	0.0340	0.100
1,2-Dichloroethane	0.0340	U	0.0340	0.100
1,1-Dichloroethene	0.0290	U	0.0290	0.100
1,2-Dichloropropane	0.0470	U	0.0470	0.100
1,3-Dichloropropane	0.0470	U	0.0470	0.100
2,2-Dichloropropane	0.0340	U	0.0340	0.100
1,1-Dichloropropene	0.0260	U	0.0260	0.100
Ethylbenzene	0.0340	U	0.0340	0.100
Hexachlorobutadiene	0.0550	U	0.0550	0.250
2-Hexanone	0.840	U	0.840	2.50
Iodomethane	0.340	U	0.340	1.00
Isopropylbenzene	0.0210	U	0.0210	0.100
Methylene bromide	0.0280	U	0.0280	0.100
Methylene Chloride	0.0500	U	0.0500	0.500
4-Methyl-2-pentanone (MIBK)	0.850	U	0.850	2.50
Methyl tert butyl ether	0.0500	U	0.0500	0.100
m,p-Xylene	0.0280	U	0.0280	0.150
Naphthalene	0.0850	U	0.0850	0.250
n-Butylbenzene	0.0500	U	0.0500	0.100
N-Propylbenzene	0.0340	U	0.0340	0.100
o-Chlorotoluene	0.0460	U	0.0460	0.100
o-Xylene	0.0340	U	0.0340	0.100

Client: Roux Associates, Inc. Job Number: 490-116536-1

Method Blank - Batch: 490-390503

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-390503/9	Analysis Batch:	490-390503	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112916-35.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/30/2016 0205	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.0420	U	0.0420	0.100
p-Isopropyltoluene	0.0340	U	0.0340	0.100
sec-Butylbenzene	0.0340	U	0.0340	0.100
Styrene	0.0550	U	0.0550	0.100
tert-Butylbenzene	0.0500	U	0.0500	0.100
1,1,1,2-Tetrachloroethane	0.0340	U	0.0340	0.100
1,1,2,2-Tetrachloroethane	0.0500	U	0.0500	0.100
Tetrachloroethene	0.0340	U	0.0340	0.100
Toluene	0.0370	U	0.0370	0.100
trans-1,2-Dichloroethene	0.0340	U	0.0340	0.100
trans-1,3-Dichloropropene	0.0340	U	0.0340	0.100
1,2,3-Trichlorobenzene	0.0190	U	0.0190	0.100
1,2,4-Trichlorobenzene	0.0340	U	0.0340	0.100
1,1,1-Trichloroethane	0.0460	U	0.0460	0.100
1,1,2-Trichloroethane	0.0700	U	0.0700	0.250
Trichloroethene	0.0500	U	0.0500	0.100
Trichlorofluoromethane	0.0500	U	0.0500	0.100
1,2,3-Trichloropropane	0.0280	U	0.0280	0.100
1,2,4-Trimethylbenzene	0.0500	U	0.0500	0.100
1,3,5-Trimethylbenzene	0.0380	U	0.0380	0.100
Vinyl acetate	0.220	U	0.220	1.00
Vinyl chloride	0.0550	U	0.0550	0.100
Xylenes (total)	0.0620	U	0.0620	0.150

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	92	70 - 130
Dibromofluoromethane (Surr)	118	70 - 130
1,2-Dichloroethane-d4 (Surr)	112	70 - 130
Toluene-d8 (Surr)	97	70 - 130

Method Blank TICs- Batch: 490-390503

Cas Number	Analyte	RT	Est. Result (mg	Qual
90-12-0	1-Methylnaphthalene	12.41	0.1121	J
91-57-6	2-Methylnaphthalene	12.25	0.1455	J
556-67-2	Cyclotetrasiloxane, octamethyl-	7.75	0.2942	J N
541-05-9	Cyclotrisiloxane, hexamethyl-	5.63	0.4134	J N

Client: Roux Associates, Inc. Job Number: 490-116536-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-390503

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-390503/5	Analysis Batch:	490-390503	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112916-31.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/30/2016 0007	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-390503/6	Analysis Batch:	490-390503	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112916-32.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/30/2016 0036	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	138	124	45 - 145	11	38		
Benzene	130	122	70 - 130	6	37		
Bromobenzene	106	107	67 - 130	1	40		
Bromochloromethane	113	115	70 - 133	2	15		
Bromodichloromethane	106	108	70 - 130	2	20		
Bromoform	92	99	59 - 137	7	17		
Bromomethane	115	122	32 - 150	5	45		
2-Butanone (MEK)	124	118	50 - 149	4	39		
Carbon disulfide	109	111	66 - 138	2	41		
Carbon tetrachloride	107	108	70 - 131	0	41		
Chlorobenzene	111	114	70 - 130	2	40		
Chloroethane	100	103	37 - 150	2	50		
Chloroform	117	118	70 - 130	0	15		
Chloromethane	89	90	53 - 150	1	47		
cis-1,2-Dichloroethene	112	112	70 - 132	0	18		
cis-1,3-Dichloropropene	107	109	70 - 130	2	42		
Dibromochloromethane	97	98	70 - 130	1	14		
1,2-Dibromo-3-chloropropane	107	104	47 - 144	3	38		
1,2-Dibromoethane	117	119	69 - 130	1	17		
1,2-Dichlorobenzene	116	112	70 - 134	3	40		
1,3-Dichlorobenzene	111	110	69 - 137	1	41		
1,4-Dichlorobenzene	112	106	66 - 134	6	41		
Dichlorodifluoromethane	96	97	32 - 150	2	50		
1,1-Dichloroethane	114	115	70 - 130	1	42		
1,2-Dichloroethane	110	106	65 - 134	4	16		
1,1-Dichloroethene	118	121	70 - 131	2	43		
1,2-Dichloropropane	120	115	70 - 130	4	15		
1,3-Dichloropropane	114	112	70 - 130	1	15		
2,2-Dichloropropane	106	107	57 - 150	1	42		
1,1-Dichloropropene	119	118	70 - 130	1	41		
Ethylbenzene	119	123	70 - 130	4	38		
Hexachlorobutadiene	119	119	64 - 137	1	44		
2-Hexanone	118	121	47 - 148	2	38		
Isopropylbenzene	119	125	70 - 130	5	39		
Methylene bromide	112	110	70 - 130	2	19		

Client: Roux Associates, Inc. Job Number: 490-116536-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-390503

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-390503/5	Analysis Batch:	490-390503	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112916-31.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/30/2016 0007	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-390503/6	Analysis Batch:	490-390503	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112916-32.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/30/2016 0036	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	114	113	69 - 130	1	19		
4-Methyl-2-pentanone (MIBK)	117	117	48 - 150	0	41		
Methyl tert butyl ether	123	117	54 - 145	4	36		
m,p-Xylene	113	118	70 - 130	5	38		
Naphthalene	127	125	55 - 149	2	37		
n-Butylbenzene	123	121	57 - 150	1	39		
N-Propylbenzene	119	119	62 - 150	1	38		
o-Chlorotoluene	110	112	70 - 132	1	41		
o-Xylene	117	122	70 - 130	4	38		
p-Chlorotoluene	110	110	67 - 135	0	41		
p-Isopropyltoluene	124	123	66 - 147	1	38		
sec-Butylbenzene	125	125	68 - 147	0	38		
Styrene	111	116	70 - 131	5	40		
tert-Butylbenzene	116	117	70 - 138	1	38		
1,1,1,2-Tetrachloroethane	103	106	70 - 130	2	41		
1,1,2,2-Tetrachloroethane	111	110	61 - 134	1	16		
Tetrachloroethene	109	114	70 - 130	4	41		
Toluene	121	124	70 - 130	2	40		
trans-1,2-Dichloroethene	114	113	70 - 130	0	41		
trans-1,3-Dichloropropene	99	103	67 - 130	4	41		
1,2,3-Trichlorobenzene	110	106	57 - 146	4	42		
1,2,4-Trichlorobenzene	105	102	47 - 150	3	43		
1,1,1-Trichloroethane	113	114	70 - 130	1	41		
1,1,2-Trichloroethane	114	119	70 - 130	5	17		
Trichloroethene	117	118	70 - 130	1	41		
Trichlorofluoromethane	106	105	53 - 150	2	49		
1,2,3-Trichloropropane	113	112	60 - 139	1	16		
1,2,4-Trimethylbenzene	117	119	70 - 140	2	38		
1,3,5-Trimethylbenzene	116	118	69 - 141	2	38		
Vinyl acetate	43	47	10 - 150	10	50		
Vinyl chloride	97	98	63 - 150	1	46		
Xylenes (total)	115	120	70 - 130	4	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	92	93	70 - 130
Dibromofluoromethane (Surr)	98	98	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116536-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92	91	70 - 130
Toluene-d8 (Surr)	98	99	70 - 130

Method Blank - Batch: 490-389827

Method: 8270D
Preparation: 3550C

Lab Sample ID:	MB 490-389827/1-A	Analysis Batch:	490-390541	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-389827	Lab File ID:	112916-29.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	11/30/2016 0137	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1002			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	0.0320	U	0.0320	0.0670
Acenaphthylene	0.0290	U	0.0290	0.0670
Aniline	0.253	U	0.253	0.670
Anthracene	0.0290	U	0.0290	0.0670
Benzidine	0.204	U	0.204	0.333
Benzo(a)anthracene	0.0300	U	0.0300	0.0670
Benzo(a)pyrene	0.0270	U	0.0270	0.0670
Benzo(b)fluoranthene	0.0280	U	0.0280	0.0670
Benzo(g,h,i)perylene	0.0330	U	0.0330	0.0670
Benzoic acid	0.0600	U	0.0600	0.333
Benzo(k)fluoranthene	0.0270	U	0.0270	0.0670
Benzyl alcohol	0.194	U	0.194	0.333
Bis(2-chloroethoxy)methane	0.200	U	0.200	0.333
Bis(2-chloroethyl)ether	0.213	U	0.213	0.333
bis (2-chloroisopropyl) ether	0.198	U	0.198	0.333
Bis(2-ethylhexyl)phthalate	0.207	U	0.207	0.333
4-Bromophenyl phenyl ether	0.205	U	0.205	0.333
Butyl benzyl phthalate	0.215	U	0.215	0.333
Carbazole	0.207	U	0.207	0.333
4-Chloroaniline	0.227	U	0.227	0.333
4-Chloro-3-methylphenol	0.168	U	0.168	0.333
2-Chloronaphthalene	0.209	U	0.209	0.333
2-Chlorophenol	0.191	U	0.191	0.333
4-Chlorophenyl phenyl ether	0.201	U	0.201	0.333
Chrysene	0.0370	U	0.0370	0.0670
Dibenzo(a,h)anthracene	0.0320	U	0.0320	0.0670
Dibenzofuran	0.210	U	0.210	0.333
1,2-Dichlorobenzene	0.190	U	0.190	0.333
1,3-Dichlorobenzene	0.190	U	0.190	0.333
1,4-Dichlorobenzene	0.196	U	0.196	0.333
3,3'-Dichlorobenzidine	0.204	U	0.204	0.670
2,4-Dichlorophenol	0.175	U	0.175	0.333
Diethyl phthalate	0.212	U	0.212	0.333
2,4-Dimethylphenol	0.335	U	0.335	0.670
Dimethyl phthalate	0.207	U	0.207	0.333
Di-n-butyl phthalate	0.211	U	0.211	0.333
4,6-Dinitro-o-cresol	0.229	U	0.229	0.333
2,4-Dinitrophenol	0.251	U	0.251	0.333
2,4-Dinitrotoluene	0.208	U	0.208	0.333
2,6-Dinitrotoluene	0.223	U	0.223	0.333
Di-n-octyl phthalate	0.178	U	0.178	0.333
1,2-Diphenylhydrazine (as Azobenzene)	0.234	U	0.234	0.333
Fluoranthene	0.0340	U	0.0340	0.0670
Fluorene	0.0290	U	0.0290	0.0670
Hexachlorobenzene	0.250	U	0.250	0.333

Client: Roux Associates, Inc. Job Number: 490-116536-1

Method Blank - Batch: 490-389827

Method: 8270D
Preparation: 3550C

Lab Sample ID:	MB 490-389827/1-A	Analysis Batch:	490-390541	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-389827	Lab File ID:	112916-29.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	11/30/2016 0137	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1002			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Hexachlorobutadiene	0.167	U	0.167	0.333
Hexachlorocyclopentadiene	0.150	U	0.150	0.333
Hexachloroethane	0.181	U	0.181	0.333
Ideno(1,2,3-cd)pyrene	0.0290	U	0.0290	0.0670
Isophorone	0.188	U	0.188	0.333
1-Methylnaphthalene	0.0280	U	0.0280	0.0670
2-Methylnaphthalene	0.0260	U	0.0260	0.0670
Naphthalene	0.0290	U	0.0290	0.0670
2-Nitroaniline	0.207	U	0.207	0.333
3-Nitroaniline	0.230	U	0.230	0.670
4-Nitroaniline	0.238	U	0.238	0.670
Nitrobenzene	0.201	U	0.201	0.333
2-Nitrophenol	0.243	U	0.243	0.333
4-Nitrophenol	0.382	U	0.382	0.670
N-Nitrosodimethylamine	0.0200	U	0.0200	0.333
N-Nitrosodi-n-propylamine	0.194	U	0.194	0.333
N-Nitrosodiphenylamine	0.0530	U	0.0530	0.333
Pentachlorophenol	0.266	U	0.266	0.670
Phenanthrene	0.0340	U	0.0340	0.0670
Phenol	0.203	U	0.203	0.333
Pyrene	0.0340	U	0.0340	0.0670
Pyridine	0.199	U	0.199	0.670
1,2,4-Trichlorobenzene	0.181	U	0.181	0.333
2,4,5-Trichlorophenol	0.218	U	0.218	0.333
2,4,6-Trichlorophenol	0.192	U	0.192	0.333

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	30	29 - 120
2-Fluorophenol (Surr)	28	10 - 120
Nitrobenzene-d5 (Surr)	28	27 - 120
Phenol-d5 (Surr)	31	10 - 120
Terphenyl-d14 (Surr)	40	13 - 120
2,4,6-Tribromophenol (Surr)	33	10 - 120

Client: Roux Associates, Inc. Job Number: 490-116536-1

Lab Control Sample - Batch: 490-389827

Method: 8270D
Preparation: 3550C

Lab Sample ID:	LCS 490-389827/2-A	Analysis Batch:	490-390541	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-389827	Lab File ID:	112916-30.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	11/30/2016 0155	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1002			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	1.67	1.280	77	36 - 120	
Acenaphthylene	1.67	1.261	76	38 - 120	
Aniline	1.67	1.221	73	10 - 150	
Anthracene	1.67	1.336	80	46 - 124	
Benzidine	1.67	0.2796	17	10 - 150	J
Benzo(a)anthracene	1.67	1.372	82	45 - 120	
Benzo(a)pyrene	1.67	1.322	79	45 - 120	
Benzo(b)fluoranthene	1.67	1.429	86	42 - 120	
Benzo(g,h,i)perylene	1.67	1.447	87	38 - 120	
Benzoic acid	1.67	1.042	63	10 - 150	
Benzo(k)fluoranthene	1.67	1.332	80	42 - 120	
Benzyl alcohol	1.67	1.283	77	43 - 131	
Bis(2-chloroethoxy)methane	1.67	1.183	71	32 - 120	
Bis(2-chloroethyl)ether	1.67	1.173	70	31 - 120	
bis (2-chloroisopropyl) ether	1.67	1.228	74	32 - 120	
Bis(2-ethylhexyl)phthalate	1.67	1.399	84	43 - 120	
4-Bromophenyl phenyl ether	1.67	1.280	77	40 - 120	
Butyl benzyl phthalate	1.67	1.442	87	43 - 133	
Carbazole	1.67	1.281	77	44 - 120	
4-Chloroaniline	1.67	1.229	74	35 - 120	
4-Chloro-3-methylphenol	1.67	1.343	81	38 - 120	
2-Chloronaphthalene	1.67	1.246	75	34 - 120	
2-Chlorophenol	1.67	1.238	74	32 - 120	
4-Chlorophenyl phenyl ether	1.67	1.285	77	42 - 120	
Chrysene	1.67	1.357	81	43 - 120	
Dibenzo(a,h)anthracene	1.67	1.362	82	32 - 128	
Dibenzofuran	1.67	1.260	76	41 - 120	
1,2-Dichlorobenzene	1.67	1.233	74	33 - 120	
1,3-Dichlorobenzene	1.67	1.195	72	32 - 120	
1,4-Dichlorobenzene	1.67	1.216	73	32 - 120	
3,3'-Dichlorobenzidine	1.67	1.150	69	39 - 120	
2,4-Dichlorophenol	1.67	1.294	78	32 - 120	
Diethyl phthalate	1.67	1.273	76	41 - 122	
2,4-Dimethylphenol	1.67	1.223	73	32 - 120	
Dimethyl phthalate	1.67	1.242	74	55 - 120	
Di-n-butyl phthalate	1.67	1.308	78	46 - 127	
4,6-Dinitro-o-cresol	3.33	0.229	4	27 - 134	U *
2,4-Dinitrophenol	3.33	0.251	5	10 - 142	U *
2,4-Dinitrotoluene	1.67	1.265	76	43 - 120	
2,6-Dinitrotoluene	1.67	1.271	76	43 - 120	
Di-n-octyl phthalate	1.67	1.487	89	40 - 130	

Client: Roux Associates, Inc. Job Number: 490-116536-1

Lab Control Sample - Batch: 490-389827

Method: 8270D
Preparation: 3550C

Lab Sample ID:	LCS 490-389827/2-A	Analysis Batch:	490-390541	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-389827	Lab File ID:	112916-30.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	11/30/2016 0155	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1002			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,2-Diphenylhydrazine (as Azobenzene)	1.67	1.304	78	10 - 150	
Fluoranthene	1.67	1.297	78	46 - 120	
Fluorene	1.67	1.274	76	42 - 120	
Hexachlorobenzene	1.67	1.313	79	44 - 120	
Hexachlorobutadiene	1.67	1.207	72	31 - 120	
Hexachlorocyclopentadiene	1.67	0.5360	32	24 - 120	
Hexachloroethane	1.67	1.173	70	33 - 120	
Ideno(1,2,3-cd)pyrene	1.67	1.342	80	41 - 121	
Isophorone	1.67	1.207	72	33 - 120	
1-Methylnaphthalene	1.67	1.238	74	32 - 120	
2-Methylnaphthalene	1.67	1.256	75	28 - 120	
Naphthalene	1.67	1.240	74	32 - 120	
2-Nitroaniline	1.67	1.278	77	40 - 120	
3-Nitroaniline	1.67	1.364	82	42 - 120	
4-Nitroaniline	1.67	1.323	79	43 - 120	
Nitrobenzene	1.67	1.237	74	26 - 120	
2-Nitrophenol	1.67	1.016	61	29 - 120	
4-Nitrophenol	3.33	2.277	68	32 - 136	
N-Nitrosodimethylamine	1.67	1.044	63	10 - 150	
N-Nitrosodi-n-propylamine	1.67	1.188	71	35 - 120	
N-Nitrosodiphenylamine	1.42	1.329	94	52 - 140	
Pentachlorophenol	3.33	2.471	74	44 - 134	
Phenanthrene	1.67	1.308	79	45 - 120	
Phenol	1.67	1.301	78	30 - 120	
Pyrene	1.67	1.448	87	43 - 120	
Pyridine	1.67	1.272	76	20 - 120	
1,2,4-Trichlorobenzene	1.67	1.194	72	29 - 120	
2,4,5-Trichlorophenol	1.67	1.398	84	39 - 120	
2,4,6-Trichlorophenol	1.67	1.377	83	39 - 120	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	76	29 - 120
2-Fluorophenol (Surr)	74	10 - 120
Nitrobenzene-d5 (Surr)	81	27 - 120
Phenol-d5 (Surr)	79	10 - 120
Terphenyl-d14 (Surr)	90	13 - 120
2,4,6-Tribromophenol (Surr)	85	10 - 120

Client: Roux Associates, Inc. Job Number: 490-116536-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-389827

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-116536-3	Analysis Batch:	490-390541	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-389827	Lab File ID:	112916-34.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.36 g
Analysis Date:	11/30/2016 0308			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116536-3	Analysis Batch:	490-390541	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-389827	Lab File ID:	112916-35.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.66 g
Analysis Date:	11/30/2016 0325			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	71	75	19 - 120	4	50		
Acenaphthylene	68	74	25 - 120	6	50		
Aniline	42	47	10 - 200	8	50		
Anthracene	67	73	28 - 125	7	49		
Benzidine	19	19	5 - 200	0	50	J	J
Benzo(a)anthracene	67	72	23 - 120	6	50		
Benzo(a)pyrene	65	71	15 - 128	7	50		
Benzo(b)fluoranthene	68	76	12 - 133	10	50		
Benzo(g,h,i)perylene	78	84	22 - 120	6	50		
Benzoic acid	80	83	10 - 200	3	50		
Benzo(k)fluoranthene	64	71	28 - 120	8	45		
Benzyl alcohol	54	63	10 - 200	14	50		
Bis(2-chloroethoxy)methane	58	63	24 - 120	7	50		
Bis(2-chloroethyl)ether	56	64	22 - 120	11	50		
bis (2-chloroisopropyl) ether	51	57	20 - 120	10	50		
Bis(2-ethylhexyl)phthalate	71	77	26 - 120	7	50		
4-Bromophenyl phenyl ether	70	75	31 - 120	6	37		
Butyl benzyl phthalate	68	75	24 - 133	8	50		
Carbazole	65	71	25 - 123	8	46		
4-Chloroaniline	51	58	26 - 120	11	50		
4-Chloro-3-methylphenol	64	69	21 - 120	7	49		
2-Chloronaphthalene	62	70	24 - 120	10	50		
2-Chlorophenol	52	58	25 - 120	10	50		
4-Chlorophenyl phenyl ether	66	71	26 - 120	6	50		
Chrysene	66	70	20 - 120	4	49		
Dibenzo(a,h)anthracene	73	81	12 - 128	9	50		
Dibenzofuran	69	73	21 - 120	5	50		
1,2-Dichlorobenzene	51	59	10 - 120	13	50		
1,3-Dichlorobenzene	51	57	10 - 120	11	50		
1,4-Dichlorobenzene	50	58	10 - 120	12	50		
3,3'-Dichlorobenzidine	70	73	10 - 120	3	50		
2,4-Dichlorophenol	62	68	17 - 120	8	50		

Client: Roux Associates, Inc. Job Number: 490-116536-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-389827

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-116536-3	Analysis Batch:	490-390541	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-389827	Lab File ID:	112916-34.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.36 g
Analysis Date:	11/30/2016 0308			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116536-3	Analysis Batch:	490-390541	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-389827	Lab File ID:	112916-35.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.66 g
Analysis Date:	11/30/2016 0325			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Diethyl phthalate	65	70	29 - 122	7	45		
2,4-Dimethylphenol	55	61	17 - 120	9	50		
Dimethyl phthalate	65	69	30 - 120	5	46		
Di-n-butyl phthalate	67	71	29 - 126	6	49		
4,6-Dinitro-o-cresol	0	0	10 - 134	NC	50	U *	U *
2,4-Dinitrophenol	0	0	10 - 150	NC	50	U *	U *
2,4-Dinitrotoluene	64	70	24 - 121	7	50		
2,6-Dinitrotoluene	66	72	24 - 120	8	50		
Di-n-octyl phthalate	70	77	27 - 130	9	50		
1,2-Diphenylhydrazine (as Azobenzene)	59	67	10 - 200	11	50		
Fluoranthene	65	71	10 - 143	7	50		
Fluorene	70	75	20 - 120	6	50		
Hexachlorobenzene	71	76	25 - 120	6	50		
Hexachlorobutadiene	61	67	10 - 120	9	50		
Hexachlorocyclopentadiene	15	20	10 - 120	30	50	J	
Hexachloroethane	48	53	10 - 120	9	50		
Ideno(1,2,3-cd)pyrene	72	79	22 - 121	8	50		
Isophorone	62	64	24 - 120	2	50		
1-Methylnaphthalene	56	54	10 - 120	2	50		
2-Methylnaphthalene	61	66	13 - 120	7	50		
Naphthalene	61	65	10 - 120	7	50		
2-Nitroaniline	64	69	31 - 120	6	50		
3-Nitroaniline	67	74	31 - 120	9	49		
4-Nitroaniline	62	69	28 - 120	9	49		
Nitrobenzene	57	62	19 - 120	8	50		
2-Nitrophenol	46	51	23 - 120	8	50		
4-Nitrophenol	60	63	16 - 139	4	45		
N-Nitrosodimethylamine	41	45	10 - 200	10	50		
N-Nitrosodi-n-propylamine	60	61	24 - 120	1	50		
N-Nitrosodiphenylamine	112	108	26 - 150	5	50		
Pentachlorophenol	69	65	19 - 145	6	50		
Phenanthrene	62	63	21 - 122	1	50		

Client: Roux Associates, Inc. Job Number: 490-116536-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-389827

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-116536-3	Analysis Batch:	490-390541	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-389827	Lab File ID:	112916-34.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.36 g
Analysis Date:	11/30/2016 0308			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116536-3	Analysis Batch:	490-390541	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-389827	Lab File ID:	112916-35.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.66 g
Analysis Date:	11/30/2016 0325			Final Weight/Volume:	1.00 mL
Prep Date:	11/26/2016 1003			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Phenol	53	60	15 - 120	12	50		
Pyrene	67	71	20 - 123	4	50		
Pyridine	44	51	10 - 200	14	50		
1,2,4-Trichlorobenzene	59	65	14 - 120	9	50		
2,4,5-Trichlorophenol	68	71	27 - 120	3	50		
2,4,6-Trichlorophenol	72	77	24 - 122	6	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	68	73	29 - 120
2-Fluorophenol (Surr)	46	52	10 - 120
Nitrobenzene-d5 (Surr)	73	72	27 - 120
Phenol-d5 (Surr)	53	59	10 - 120
Terphenyl-d14 (Surr)	72	78	13 - 120
2,4,6-Tribromophenol (Surr)	78	85	10 - 120

Client: Roux Associates, Inc. Job Number: 490-116536-1

Method Blank - Batch: 490-390569

Method: 6010C
Preparation: 3051A

Lab Sample ID:	MB 490-390569/1-A	Analysis Batch:	490-390855	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-390569	Lab File ID:	TALS_113016-4A.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.496 g
Analysis Date:	11/30/2016 1208	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/29/2016 1907				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	10.1	U	10.1	20.2
Antimony	1.01	U	1.01	10.1
Arsenic	1.21	U	1.21	2.02
Barium	1.01	U	1.01	2.02
Beryllium	0.202	U	0.202	1.01
Cadmium	0.101	U	0.101	1.01
Calcium	101	U	101	202
Chromium	0.907	U	0.907	1.01
Cobalt	1.01	U	1.01	2.02
Copper	1.11	U	1.11	2.02
Iron	20.2	U	20.2	40.3
Lead	0.504	U	0.504	1.01
Magnesium	101	U	101	202
Manganese	1.01	U	1.01	3.02
Nickel	0.605	U	0.605	2.02
Potassium	101	U	101	202
Selenium	1.11	U	1.11	2.02
Silver	0.403	U	0.403	1.01
Sodium	131	U	131	202
Thallium	0.605	U	0.605	2.02
Vanadium	2.02	U	2.02	10.1
Zinc	7.379	J	5.04	10.1

Client: Roux Associates, Inc. Job Number: 490-116536-1

Lab Control Sample - Batch: 490-390569

Method: 6010C
Preparation: 3051A

Lab Sample ID:	LCS 490-390569/2-A	Analysis Batch:	490-390855	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-390569	Lab File ID:	TALS_113016-4A.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.500 g
Analysis Date:	11/30/2016 1214	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/29/2016 1907				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	800	841.4	105	80 - 120	
Antimony	40.0	46.52	116	80 - 120	
Arsenic	20.0	19.84	99	80 - 120	
Barium	800	864.4	108	80 - 120	
Beryllium	20.0	21.68	108	80 - 120	
Cadmium	20.0	20.72	104	80 - 120	
Calcium	2000	2106	105	80 - 120	
Chromium	80.0	86.74	108	80 - 120	
Cobalt	200	212.0	106	80 - 120	
Copper	100	106.0	106	80 - 120	
Iron	400	432.6	108	80 - 120	
Lead	20.0	21.06	105	80 - 120	
Magnesium	2000	2086	104	80 - 120	
Manganese	200	213.0	107	80 - 120	
Nickel	200	211.6	106	80 - 120	
Potassium	2000	2142	107	80 - 120	
Selenium	20.0	20.68	103	80 - 120	
Silver	20.0	17.90	90	80 - 120	
Sodium	2000	2086	104	80 - 120	
Thallium	120	122.0	102	80 - 120	
Vanadium	200	215.8	108	80 - 120	
Zinc	200	206.4	103	80 - 120	

Client: Roux Associates, Inc. Job Number: 490-116536-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-390569

Method: 6010C
Preparation: 3051A

MS Lab Sample ID: 280-91340-B-7-B MS
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 11/30/2016 1239
Prep Date: 11/29/2016 1907
Leach Date: N/A

Analysis Batch: 490-390855
Prep Batch: 490-390569
Leach Batch: N/A

Instrument ID: ICP4
Lab File ID: TALS_113016-4A.asc
Initial Weight/Volume: 0.525 g
Final Weight/Volume: 100 mL

MSD Lab Sample ID: 280-91340-B-7-C MSD
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 11/30/2016 1244
Prep Date: 11/29/2016 1907
Leach Date: N/A

Analysis Batch: 490-390855
Prep Batch: 490-390569
Leach Batch: N/A

Instrument ID: ICP4
Lab File ID: TALS_113016-4A.asc
Initial Weight/Volume: 0.508 g
Final Weight/Volume: 100 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aluminum	242	141	75 - 125	15	20	4	4
Antimony	103	103	75 - 125	3	20		
Arsenic	99	100	75 - 125	3	20		
Barium	100	99	75 - 125	2	20		
Beryllium	102	103	75 - 125	4	20		
Cadmium	95	96	75 - 125	4	20		
Calcium	105	102	75 - 125	0	20	4	4
Chromium	100	102	75 - 125	4	20		
Cobalt	97	97	75 - 125	4	20		
Copper	101	103	75 - 125	5	20		
Iron	344	173	75 - 125	8	20	4	4
Lead	249	201	75 - 125	10	20	N	N
Magnesium	109	98	75 - 125	2	20		
Manganese	97	102	75 - 125	3	20		
Nickel	96	97	75 - 125	4	20		
Potassium	106	101	75 - 125	2	20		
Selenium	100	103	75 - 125	6	20		
Silver	84	85	75 - 125	4	20		
Sodium	103	103	75 - 125	3	20		
Thallium	64	66	75 - 125	7	20	N	N
Vanadium	102	102	75 - 125	3	20		
Zinc	89	90	75 - 125	3	20		

Client: Roux Associates, Inc. Job Number: 490-116536-1

Method Blank - Batch: 490-390663 **Method: 6010C**
Preparation: 3051A

Lab Sample ID:	MB 490-390663/1-A	Analysis Batch:	490-391031	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-390663	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.509 g
Analysis Date:	12/01/2016 0648	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1017				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	9.82	U	9.82	19.6
Antimony	0.982	U	0.982	9.82
Arsenic	1.18	U	1.18	1.96
Barium	0.982	U	0.982	1.96
Beryllium	0.196	U	0.196	0.982
Cadmium	0.0982	U	0.0982	0.982
Calcium	98.2	U	98.2	196
Cobalt	0.982	U	0.982	1.96
Copper	1.08	U	1.08	1.96
Iron	19.6	U	19.6	39.3
Lead	0.491	U	0.491	0.982
Magnesium	98.2	U	98.2	196
Nickel	0.589	U	0.589	1.96
Selenium	1.08	U	1.08	1.96
Thallium	0.589	U	0.589	1.96
Vanadium	1.96	U	1.96	9.82
Zinc	4.91	U	4.91	9.82

Method Blank - Batch: 490-390663 **Method: 6010C**
Preparation: 3051A

Lab Sample ID:	MB 490-390663/1-A	Analysis Batch:	490-391227	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-390663	Lab File ID:	TALS_120116-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.509 g
Analysis Date:	12/02/2016 0051	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1017				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chromium	0.884	U	0.884	0.982
Manganese	0.982	U	0.982	2.95
Potassium	98.2	U	98.2	196
Silver	0.393	U	0.393	0.982
Sodium	128	U	128	196

Client: Roux Associates, Inc. Job Number: 490-116536-1

Lab Control Sample - Batch: 490-390663

Method: 6010C
Preparation: 3051A

Lab Sample ID:	LCS 490-390663/2-A	Analysis Batch:	490-391031	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-390663	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.498 g
Analysis Date:	12/01/2016 0654	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1017				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	803	820.9	102	80 - 120	
Antimony	40.2	41.71	104	80 - 120	
Arsenic	20.1	18.23	91	80 - 120	
Barium	803	815.5	102	80 - 120	
Beryllium	20.1	20.12	100	80 - 120	
Cadmium	20.1	19.78	99	80 - 120	
Calcium	2010	2001	100	80 - 120	
Cobalt	201	199.4	99	80 - 120	
Copper	100	97.33	97	80 - 120	
Iron	402	386.9	96	80 - 120	
Lead	20.1	19.90	99	80 - 120	
Magnesium	2010	1924	96	80 - 120	
Nickel	201	199.5	99	80 - 120	
Selenium	20.1	18.88	94	80 - 120	
Thallium	120	115.3	96	80 - 120	
Vanadium	201	194.7	97	80 - 120	
Zinc	201	193.5	96	80 - 120	

Lab Control Sample - Batch: 490-390663

Method: 6010C
Preparation: 3051A

Lab Sample ID:	LCS 490-390663/2-A	Analysis Batch:	490-391227	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-390663	Lab File ID:	TALS_120116-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.498 g
Analysis Date:	12/02/2016 0057	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1017				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chromium	80.3	86.55	108	80 - 120	
Manganese	201	218.3	109	80 - 120	
Potassium	2010	2040	102	80 - 120	
Silver	20.1	21.27	106	80 - 120	
Sodium	2010	2068	103	80 - 120	

Client: Roux Associates, Inc. Job Number: 490-116536-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-390663

Method: 6010C
Preparation: 3051A

MS Lab Sample ID:	490-116539-5	Analysis Batch:	490-391031	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-390663	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.509 g
Analysis Date:	12/01/2016 0719			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1017				
Leach Date:	N/A				

MSD Lab Sample ID:	490-116539-5	Analysis Batch:	490-391031	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-390663	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.512 g
Analysis Date:	12/01/2016 0724			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1017				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aluminum	285	-13	75 - 125	23	20	4	4 N
Antimony	91	84	75 - 125	9	20		
Arsenic	72	74	75 - 125	2	20	N	N
Barium	97	99	75 - 125	2	20		
Beryllium	96	97	75 - 125	1	20		
Cadmium	93	95	75 - 125	1	20		
Calcium	94	98	75 - 125	2	20		
Cobalt	93	94	75 - 125	1	20		
Copper	96	95	75 - 125	1	20		
Iron	-548	-744	75 - 125	5	20	4	4
Lead	87	91	75 - 125	2	20		
Magnesium	98	85	75 - 125	8	20		
Nickel	93	94	75 - 125	0	20		
Selenium	88	89	75 - 125	0	20		
Thallium	51	56	75 - 125	9	20	N	N
Vanadium	92	92	75 - 125	1	20		
Zinc	92	89	75 - 125	3	20		

Client: Roux Associates, Inc. Job Number: 490-116536-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-390663

Method: 6010C
Preparation: 3051A

MS Lab Sample ID:	490-116539-5	Analysis Batch:	490-391227	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-390663	Lab File ID:	TALS_120116-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.509 g
Analysis Date:	12/02/2016 0122			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1017				
Leach Date:	N/A				

MSD Lab Sample ID:	490-116539-5	Analysis Batch:	490-391227	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-390663	Lab File ID:	TALS_120116-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.512 g
Analysis Date:	12/02/2016 0137			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1017				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chromium	99	97	75 - 125	3	20		
Manganese	92	115	75 - 125	8	20		
Potassium	97	90	75 - 125	7	20		
Silver	99	98	75 - 125	1	20		
Sodium	98	100	75 - 125	1	20		

Client: Roux Associates, Inc. Job Number: 490-116536-1

Method Blank - Batch: 490-391209

Method: 7471B
Preparation: 7471B

Lab Sample ID:	MB 490-391209/1-A	Analysis Batch:	490-391382	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-391209	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.625 g
Analysis Date:	12/02/2016 0959	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 0833				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0288	U	0.0288	0.0960

Lab Control Sample - Batch: 490-391209

Method: 7471B
Preparation: 7471B

Lab Sample ID:	LCS 490-391209/2-A	Analysis Batch:	490-391382	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-391209	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.618 g
Analysis Date:	12/02/2016 1002	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 0833				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.162	0.1453	90	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-391209

Method: 7471B
Preparation: 7471B

MS Lab Sample ID:	490-116536-1	Analysis Batch:	490-391382	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-391209	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.615 g
Analysis Date:	12/02/2016 1008			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 0833				
Leach Date:	N/A				

MSD Lab Sample ID:	490-116536-1	Analysis Batch:	490-391382	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-391209	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.608 g
Analysis Date:	12/02/2016 1010			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 0833				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	101	105	80 - 120	5	20		

Client: Roux Associates, Inc. Job Number: 490-116536-1

Method Blank - Batch: 490-391309

Method: 7471B
Preparation: 7471B

Lab Sample ID:	MB 490-391309/1-A	Analysis Batch:	490-391382	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-391309	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.596 g
Analysis Date:	12/02/2016 1227	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 1026				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0302	U	0.0302	0.101

Lab Control Sample - Batch: 490-391309

Method: 7471B
Preparation: 7471B

Lab Sample ID:	LCS 490-391309/2-A	Analysis Batch:	490-391382	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-391309	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.605 g
Analysis Date:	12/02/2016 1229	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 1026				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.165	0.1611	97	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-391309

Method: 7471B
Preparation: 7471B

MS Lab Sample ID:	490-116560-D-1-D MS	Analysis Batch:	490-391382	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-391309	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.598 g
Analysis Date:	12/02/2016 1235			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 1026				
Leach Date:	N/A				

MSD Lab Sample ID:	490-116560-D-1-E MSD	Analysis Batch:	490-391382	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-391309	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.599 g
Analysis Date:	12/02/2016 1243			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 1026				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	111	79	80 - 120	25	20		N

Client: Roux Associates, Inc. Job Number: 490-116536-1

Duplicate - Batch: 490-388758

Method: Moisture
Preparation: N/A

Lab Sample ID:	490-116536-1	Analysis Batch:	490-388758	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/22/2016 1005	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	89.5	89.3	0.2	20	

Client: Roux Associates, Inc. Job Number: 490-116536-1

Duplicate - Batch: 490-388813

Method: Moisture
Preparation: N/A

Lab Sample ID:	490-116539-5	Analysis Batch:	490-388813	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/22/2016 1059	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	89.3	89.7	0.5	20	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

490-116536 Chain of Custody

COOLER RECEIPT FORM

Cooler Received/Opened On 11/19/2016 @ 0920

Time Samples Removed From Cooler 1447 Time Samples Placed In Storage 1521 (2 Hour Window)

1. Tracking # 0819 (last 4 digits, FedEx) Courier: _FedEx_

IR Gun ID 31470366 pH Strip Lot N/A Chlorine Strip Lot N/A

2. Temperature of rep. sample or temp blank when opened: 5.3 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? (YES)...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? (YES)...NO...NA

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) PM

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? (YES)...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...(NA)

14. Was there a Trip Blank in this cooler? YES...NO...(NA) If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) MDM

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..(NA)

b. Did the bottle labels indicate that the correct preservatives were used (YES)...NO...NA

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) MDM

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) MDM

I certify that I attached a label with the unique LIMS number to each container (intial) MDM

21. Were there Non-Conformance issues at login? YES...(NO) Was a NCM generated? YES...(NO)...#_____

BIS = Broken in shipment

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Loc: 490
116536

Client Information	Sampler: A. Marsocci	Lab PM: Huckaba, Jennifer	Carrier Tracking No(s):	COC No: 490-59953-19378
Client Contact: Matthew Casey	Phone: 585-721-1196	E-Mail: jennifer.huckaba@testamericainc.com		Page: Page ___ OF ___
Company: Roux Associates, Inc.		Analysis Requested		Job #:
Address: 12 Gill St., Suite 4700	Due Date Requested:			Preservation Codes:
City: Woburn	TAT Requested (days): Standard			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: MA, 01801				
Phone:	PO #: 0172.0210M009			
Email: mcasey@rouxinc.com	WO #:			Other:
Project Name: Roux - Olean, NY	Project #: 49005538			
Site: 350/351 Franklin St.	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Standard 8260 List + TICs	8270D - Standard List	6010C, 7471B - TAL METALS	DRY WEIGHT	7470/1B - Mercury	Moisture								Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
END 419	11/17/16	0815	G	S	N	N	X	X	X		X	X								4	-1
END 420	11/17/16	0815	G	S	N	N	X	X	X		X	X								4	2
END 418	11/17/16	0815	G	S	N	N	X	X	X		X	X								4	3
END 407	11/17/16	0945	G	S	N	N	X	X	X		X	X								4	4
END 424	11/17/16	0945	G	S	N	N	X	X	X		X	X								4	5
END 425	11/17/16	1045	G	S	N	N	X	X	X		X	X								4	6
END 428	11/17/16	1045	G	S	N	N	X	X	X		X	X								4	7
END 429	11/17/16	1045	G	S	N	N	X	X	X		X	X								4	8

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify) CAT A

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

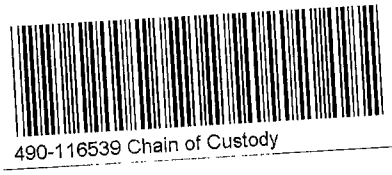
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		11/18/16 1430	Roux	Fed-ex		
2					11-19-16 @ 0920	TAN
3						

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 5.3c

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM


490-116539 Chain of Custody

Cooler Received/Opened On 11/19/2016 @ 0920

Time Samples Removed From Cooler 1526 Time Samples Placed In Storage 1526 (2 Hour Window)

1. Tracking # 0820 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 31470366 pH Strip Lot N/A Chlorine Strip Lot N/A

2. Temperature of rep. sample or temp blank when opened: 4.8 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) PM

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) MDM

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) MDM

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) MDM

I certify that I attached a label with the unique LIMS number to each container (intial) MDM

21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES...NO...# 11-19-16

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 12/15/15

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Loc: 490
116539

Client Information	Sampler: A. Marsocci	Lab PM: Huckaba, Jennifer	Carrier Tracking No(s):	COC No: 490-59953-19378
Client Contact: Matthew Casey	Phone: 585-721-1196	E-Mail: jennifer.huckaba@testamericainc.com		Page: Page ___ OF ___
Company: Roux Associates, Inc.				Job #:
Address: 12 Gill St., Suite 4700	Due Date Requested:			
City: Woburn	TAT Requested (days): Standard			
State, Zip: MA, 01801				
Phone:	PO #: 0172.0210M009			
Email: mcasey@rouxinc.com	WO #:			
Project Name: Roux - Olean, NY	Project #: 49005538			
Site: 350/351 Franklin St.	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Standard 8260 List + TICs	8270D - Standard List	6010C, 7471B - TAL METALS	DRY WEIGHT	747018 - Mercury	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
END 430	11/17/16	1300	G	S	N	N	X	X	X		X	X	4	-1
END 427	11/17/16	1045	G	S	N	N	X	X	X		X	X	4	2
END 433	11/17/16	1300	G	S	N	N	X	X	X		X	X	4	3
END 431	11/17/16	1300	G	S	N	N	X	X	X		X	X	4	4
END 434	11/17/16	1300	G	S	N	N	X	X	X		X	X	4	5
END 423	11/17/16	0945	G	S	N	N	X	X	X		X	X	4	6
END 426	11/17/16	1045	G	S	N	N	X	X	X		X	X	4	7
END 432	11/17/16	1300	G	S	N	N	X	X	X		X	X	4	8
TRIP BLANK	—	—	TB	LAB	N	N	✓	✓	✓		✓	✓	4	9

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) CAT A

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		11/18/16 1430	ROUX	Fedex		
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
					11.19.16 @ 0920	TAN
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 4.0c

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 490-116536-1

Login Number: 116536
List Number: 1
Creator: McBride, Mike

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 490-116536-1

Login Number: 116539
List Number: 1
Creator: McBride, Mike

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	Insufficient volume received for requested analysis.
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

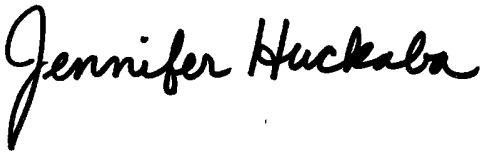
Job Number: 490-116559-1

Job Description: 350/351 Franklin St, Olean, NY

Contract Number: A2288121

For:
Roux Associates, Inc.
12 Gill St., Suite 4700
Woburn, MA 01801

Attention: Matthew Casey



Approved for release.
Jennifer Huckaba
Project Manager II
12/6/2016 11:46 PM

Jennifer Huckaba, Project Manager II
2960 Foster Creighton Drive, Nashville, TN, 37204
(615)301-5042
jennifer.huckaba@testamericainc.com
12/06/2016

The laboratory is only responsible for the certified testing and is not responsible for the sample integrity prior to laboratory receipt.

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Job Narrative
490-116559-1

Comments
No additional comments.

Receipt
The samples were received on 11/21/2016 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.2º C and 4.3º C.

Receipt Exceptions

The COC records a total of 5 containers; however, we only received 4 containers: TP-307-6-7 (490-116559-11).

GC/MS VOA
Method(s) 8260C: Internal standard responses were outside of acceptance limits for the following samples: TP-304-6-7 (490-116559-8), TP-305-6-7 (490-116559-9), TP-306-6-7 (490-116559-10) and TP-307-6-7 (490-116559-11). The sample(s) shows evidence of matrix interference.

Method(s) 8260C: Internal standard responses were outside of acceptance limits for the following sample: END-421 (490-116560-11). The sample(s) shows evidence of matrix interference.

Method(s) 8260C: Surrogate recovery for the following samples was outside control limits: TP-305-6-7 (490-116559-9), TP-306-6-7 (490-116559-10) and TP-307-6-7 (490-116559-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260C: Surrogate recovery for the following samples was outside control limits: TP-308-6-7 (490-116560-1), END-416 (490-116560-2), END-412 (490-116560-9), END-422 (490-116560-10) and END-421 (490-116560-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260C: The following sample was diluted due to the nature of the sample matrix: END-406 (490-116559-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The method blank for analytical batch 490-389677 contained acetone above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260C: The method blank for analytical batch 490-389572 contained 1,2,3-Trichlorobenzene above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction re-analysis of samples was not performed.

Method(s) 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 490-389572 recovered outside control limits for the following analytes: Vinyl acetate. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 490-389824 recovered outside control limits for the following analytes: Tetrachloroethene and Vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The method blank for analytical batch 490-389914 contained 1,2,3-Trichlorobenzene above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-analysis of samples was not performed.

Method(s) 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 490-390019 recovered outside control limits for the following analytes: vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 490-390019.

Method(s) 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 490-390303 recovered outside control limits for the following analyte: Dichlorodifluoromethane. This analyte was biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 490-390303 recovered outside control limits for the following analyte: Carbon tetrachloride. This analytes was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix: END-406 (490-116559-1). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: (490-116559-D-1-B MS) and (490-116559-D-1-C MSD). As such, surrogate and MS/MSD spike recoveries were diluted out.

Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: END-422 (490-116560-10). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 490-389971 and analytical batch 490-390308 recovered outside control limits for 3,3'-Dichlorobenzidine and Benzidine but within marginal exceedance limits. These results have been reported and qualified.

Method(s) 8270D: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 490-389971 recovered outside control limits for the following analytes: Benzoic acid.

Method(s) 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 490-389971 and analytical batch 490-390597 were outside control limits.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 490-390597 recovered above the upper control limit for 4-Nitrophenol, Isophorone, Nitrobenzene, Azobenzene and N-Nitrosodi-n-propylamine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 8270D: The continuing calibration verification (CCV) for analytical batch 490-390597 was outside the method criteria for 2,4,6-Tribromophenol (Surr) and Benzidine . A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable; therefore, the data is reported.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 490-390980 recovered above the upper control limit for 2,4,6-Tribromophenol (Surr). All associated sample surrogate recoveries were within control limits; therefore, the data has been reported. The following sample is impacted: (CCVIS 490-390980/3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010C, 6010D: The continuing calibration verification (CCV) associated with batch 391031 recovered above the upper control limit for Silver. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: END-411 (490-116560-5), END-417 (490-116560-6), END-415 (490-116560-7), END-414 (490-116560-8), END-412 (490-116560-9), END-422 (490-116560-10) and END-421 (490-116560-11).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

The laboratory is only responsible for the certified testing and is not responsible for the sample integrity prior to laboratory receipt.

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116559-1	**END-406**					
Acetone		0.317	B	0.0708	mg/Kg	8260C
Benzene		0.0113		0.00283	mg/Kg	8260C
2-Butanone (MEK)		0.0458	J	0.0708	mg/Kg	8260C
Ethylbenzene		0.00649		0.00283	mg/Kg	8260C
Isopropylbenzene		0.00954		0.00283	mg/Kg	8260C
m,p-Xylene		0.0197		0.00567	mg/Kg	8260C
N-Propylbenzene		0.0172		0.00283	mg/Kg	8260C
o-Xylene		0.0118		0.00283	mg/Kg	8260C
p-Isopropyltoluene		0.0194		0.00283	mg/Kg	8260C
sec-Butylbenzene		0.00900		0.00283	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.302		0.00283	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.0639		0.00283	mg/Kg	8260C
Xylenes (total)		0.0315		0.00850	mg/Kg	8260C
Benzo(a)anthracene		0.373	J	0.391	mg/Kg	8270D
Benzo(a)pyrene		0.474		0.391	mg/Kg	8270D
Benzo(b)fluoranthene		0.249	J	0.391	mg/Kg	8270D
Benzo(g,h,i)perylene		0.924		0.391	mg/Kg	8270D
Benzoic acid		0.764	J	1.94	mg/Kg	8270D
Chrysene		0.659		0.391	mg/Kg	8270D
Ideno(1,2,3-cd)pyrene		0.238	J	0.391	mg/Kg	8270D
1-Methylnaphthalene		0.258	J	0.391	mg/Kg	8270D
Phenanthrene		0.837		0.391	mg/Kg	8270D
Pyrene		1.67		0.391	mg/Kg	8270D
Aluminum		7840		23.1	mg/Kg	6010C
Arsenic		16.5		2.31	mg/Kg	6010C
Barium		105		2.31	mg/Kg	6010C
Beryllium		0.646	J	1.15	mg/Kg	6010C
Cadmium		0.323	J	1.15	mg/Kg	6010C
Calcium		1670		231	mg/Kg	6010C
Chromium		12.0		1.15	mg/Kg	6010C
Cobalt		8.79		2.31	mg/Kg	6010C
Copper		116		2.31	mg/Kg	6010C
Iron		19500		46.2	mg/Kg	6010C
Lead		65.2		1.15	mg/Kg	6010C
Magnesium		2330		231	mg/Kg	6010C
Manganese		343		3.46	mg/Kg	6010C
Nickel		20.4		2.31	mg/Kg	6010C
Potassium		974		231	mg/Kg	6010C
Selenium		2.38		2.31	mg/Kg	6010C
Vanadium		18.1		11.5	mg/Kg	6010C
Zinc		47.7		11.5	mg/Kg	6010C
Mercury		0.0445	J	0.117	mg/Kg	7471B
Percent Solids		83.3		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116559-2	**TP-300-6-7**					
Acetone		1.03	B	0.0502	mg/Kg	8260C
Benzene		0.0124		0.00201	mg/Kg	8260C
Bromomethane		0.00268		0.00201	mg/Kg	8260C
2-Butanone (MEK)		0.264		0.0502	mg/Kg	8260C
Ethylbenzene		0.00172	J	0.00201	mg/Kg	8260C
2-Hexanone		0.0305	J	0.0502	mg/Kg	8260C
m,p-Xylene		0.00409		0.00401	mg/Kg	8260C
o-Xylene		0.00179	J	0.00201	mg/Kg	8260C
Toluene		0.0153		0.00201	mg/Kg	8260C
Xylenes (total)		0.00588	J	0.00602	mg/Kg	8260C
Anthracene		0.0704	J	0.0717	mg/Kg	8270D
Benzo(a)anthracene		0.114		0.0717	mg/Kg	8270D
Benzo(a)pyrene		0.0722		0.0717	mg/Kg	8270D
Benzo(b)fluoranthene		0.0833		0.0717	mg/Kg	8270D
Benzo(g,h,i)perylene		0.0408	J	0.0717	mg/Kg	8270D
Benzo(k)fluoranthene		0.0493	J	0.0717	mg/Kg	8270D
Chrysene		0.128		0.0717	mg/Kg	8270D
Fluoranthene		0.267		0.0717	mg/Kg	8270D
Ideno(1,2,3-cd)pyrene		0.0367	J	0.0717	mg/Kg	8270D
Phenanthrene		0.158		0.0717	mg/Kg	8270D
Pyrene		0.214		0.0717	mg/Kg	8270D
Aluminum		5260		21.4	mg/Kg	6010C
Arsenic		7.16		2.14	mg/Kg	6010C
Barium		42.5		2.14	mg/Kg	6010C
Beryllium		0.256	J	1.07	mg/Kg	6010C
Cadmium		0.406	J	1.07	mg/Kg	6010C
Calcium		1210		214	mg/Kg	6010C
Chromium		6.28		1.07	mg/Kg	6010C
Cobalt		4.51		2.14	mg/Kg	6010C
Copper		29.5		2.14	mg/Kg	6010C
Iron		10400		42.7	mg/Kg	6010C
Lead		20.2		1.07	mg/Kg	6010C
Magnesium		1410		214	mg/Kg	6010C
Manganese		862		3.20	mg/Kg	6010C
Nickel		11.2		2.14	mg/Kg	6010C
Potassium		268		214	mg/Kg	6010C
Vanadium		8.14	J	10.7	mg/Kg	6010C
Zinc		60.1		10.7	mg/Kg	6010C
Percent Solids		91.6		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116559-3	**TP-301-6-7**					
Acetone		0.472	B	0.0739	mg/Kg	8260C
Benzene		0.00361		0.00296	mg/Kg	8260C
2-Butanone (MEK)		0.117		0.0739	mg/Kg	8260C
m,p-Xylene		0.00313	J	0.00591	mg/Kg	8260C
o-Xylene		0.00141	J	0.00296	mg/Kg	8260C
Toluene		0.00512		0.00296	mg/Kg	8260C
Xylenes (total)		0.00454	J	0.00887	mg/Kg	8260C
Anthracene		0.0373	J	0.0741	mg/Kg	8270D
Benzo(a)anthracene		0.141		0.0741	mg/Kg	8270D
Benzo(a)pyrene		0.156		0.0741	mg/Kg	8270D
Benzo(b)fluoranthene		0.173		0.0741	mg/Kg	8270D
Benzo(g,h,i)perylene		0.129		0.0741	mg/Kg	8270D
Benzo(k)fluoranthene		0.0923		0.0741	mg/Kg	8270D
Chrysene		0.167		0.0741	mg/Kg	8270D
Fluoranthene		0.306		0.0741	mg/Kg	8270D
Ideno(1,2,3-cd)pyrene		0.102		0.0741	mg/Kg	8270D
Phenanthrene		0.203		0.0741	mg/Kg	8270D
Pyrene		0.342		0.0741	mg/Kg	8270D
Aluminum		5000		22.4	mg/Kg	6010C
Arsenic		7.90		2.24	mg/Kg	6010C
Barium		47.7		2.24	mg/Kg	6010C
Beryllium		0.247	J	1.12	mg/Kg	6010C
Cadmium		0.494	J	1.12	mg/Kg	6010C
Calcium		1560		224	mg/Kg	6010C
Chromium		6.30		1.12	mg/Kg	6010C
Cobalt		4.40		2.24	mg/Kg	6010C
Copper		22.2		2.24	mg/Kg	6010C
Iron		10700		44.9	mg/Kg	6010C
Lead		147		1.12	mg/Kg	6010C
Magnesium		1680		224	mg/Kg	6010C
Manganese		640		3.37	mg/Kg	6010C
Nickel		11.0		2.24	mg/Kg	6010C
Potassium		265		224	mg/Kg	6010C
Vanadium		8.19	J	11.2	mg/Kg	6010C
Zinc		92.0		11.2	mg/Kg	6010C
Percent Solids		89.5		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116559-4	**END-408**					
Acetone		0.0551	J B	0.0560	mg/Kg	8260C
2-Butanone (MEK)		0.00736	J	0.0560	mg/Kg	8260C
Aluminum		8900		21.4	mg/Kg	6010C
Arsenic		12.1		2.14	mg/Kg	6010C
Barium		37.8		2.14	mg/Kg	6010C
Beryllium		0.493	J	1.07	mg/Kg	6010C
Cadmium		0.279	J	1.07	mg/Kg	6010C
Calcium		347		214	mg/Kg	6010C
Chromium		10.0		1.07	mg/Kg	6010C
Cobalt		4.78		2.14	mg/Kg	6010C
Copper		17.3		2.14	mg/Kg	6010C
Iron		13400		42.8	mg/Kg	6010C
Lead		13.3		1.07	mg/Kg	6010C
Magnesium		1990		214	mg/Kg	6010C
Manganese		111		3.21	mg/Kg	6010C
Nickel		14.7		2.14	mg/Kg	6010C
Potassium		486		214	mg/Kg	6010C
Selenium		1.26	J	2.14	mg/Kg	6010C
Vanadium		12.2		10.7	mg/Kg	6010C
Zinc		48.5		10.7	mg/Kg	6010C
Percent Solids		88.9		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116559-5	**END-409**					
Acetone		0.139		0.0694	mg/Kg	8260C
Benzene		0.000992	J	0.00190	mg/Kg	8260C
2-Butanone (MEK)		0.0146	J	0.0475	mg/Kg	8260C
Ethylbenzene		0.000715	J	0.00190	mg/Kg	8260C
m,p-Xylene		0.00149	J	0.00380	mg/Kg	8260C
Xylenes (total)		0.00149	J	0.00570	mg/Kg	8260C
Aluminum		15200		24.1	mg/Kg	6010C
Arsenic		9.46		2.41	mg/Kg	6010C
Barium		96.5		2.41	mg/Kg	6010C
Beryllium		0.554	J	1.20	mg/Kg	6010C
Cadmium		0.265	J	1.20	mg/Kg	6010C
Calcium		979		241	mg/Kg	6010C
Chromium		15.7		1.20	mg/Kg	6010C
Cobalt		11.2		2.41	mg/Kg	6010C
Copper		8.60		2.41	mg/Kg	6010C
Iron		20400		48.2	mg/Kg	6010C
Lead		15.4		1.20	mg/Kg	6010C
Magnesium		2370		241	mg/Kg	6010C
Manganese		437		3.61	mg/Kg	6010C
Nickel		19.5		2.41	mg/Kg	6010C
Potassium		753		241	mg/Kg	6010C
Selenium		2.09	J	2.41	mg/Kg	6010C
Vanadium		19.3		12.0	mg/Kg	6010C
Zinc		73.9		12.0	mg/Kg	6010C
Percent Solids		81.8		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116559-6	**TP-302-6-7**					
Acetone		0.345	B	0.0428	mg/Kg	8260C
Benzene		0.00155	J	0.00171	mg/Kg	8260C
Bromomethane		0.00115	J	0.00171	mg/Kg	8260C
2-Butanone (MEK)		0.0823		0.0428	mg/Kg	8260C
Aluminum		7490		22.5	mg/Kg	6010C
Arsenic		18.3		2.25	mg/Kg	6010C
Barium		43.9		2.25	mg/Kg	6010C
Beryllium		0.359	J	1.12	mg/Kg	6010C
Cadmium		0.337	J	1.12	mg/Kg	6010C
Calcium		1350		225	mg/Kg	6010C
Chromium		8.74		1.12	mg/Kg	6010C
Cobalt		5.66		2.25	mg/Kg	6010C
Copper		16.4		2.25	mg/Kg	6010C
Iron		13000		44.9	mg/Kg	6010C
Lead		16.7		1.12	mg/Kg	6010C
Magnesium		2090		225	mg/Kg	6010C
Manganese		841		3.37	mg/Kg	6010C
Nickel		14.3		2.25	mg/Kg	6010C
Potassium		381		225	mg/Kg	6010C
Vanadium		11.2		11.2	mg/Kg	6010C
Zinc		54.5		11.2	mg/Kg	6010C
Percent Solids		87.1		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116559-7	**TP-303-6-7**					
Acetone		0.407	B	0.0513	mg/Kg	8260C
Benzene		0.00263		0.00205	mg/Kg	8260C
2-Butanone (MEK)		0.0812		0.0513	mg/Kg	8260C
m,p-Xylene		0.000979	J	0.00410	mg/Kg	8260C
o-Xylene		0.000777	J	0.00205	mg/Kg	8260C
Toluene		0.00152	J	0.00205	mg/Kg	8260C
Xylenes (total)		0.00176	J	0.00616	mg/Kg	8260C
Aluminum		6630		25.7	mg/Kg	6010C
Arsenic		5.33		2.57	mg/Kg	6010C
Barium		43.9		2.57	mg/Kg	6010C
Beryllium		0.283	J	1.29	mg/Kg	6010C
Cadmium		0.463	J	1.29	mg/Kg	6010C
Calcium		1180		257	mg/Kg	6010C
Chromium		7.64		1.29	mg/Kg	6010C
Cobalt		5.02		2.57	mg/Kg	6010C
Copper		16.4		2.57	mg/Kg	6010C
Iron		10100		51.5	mg/Kg	6010C
Lead		23.2		1.29	mg/Kg	6010C
Magnesium		1780		257	mg/Kg	6010C
Manganese		869		3.86	mg/Kg	6010C
Nickel		12.3		2.57	mg/Kg	6010C
Potassium		407		257	mg/Kg	6010C
Vanadium		9.32	J	12.9	mg/Kg	6010C
Zinc		55.2		12.9	mg/Kg	6010C
Percent Solids		77.5		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116559-8	**TP-304-6-7**					
Acetone		0.170		0.0459	mg/Kg	8260C
2-Butanone (MEK)		0.0242	J	0.0471	mg/Kg	8260C
Aluminum		7220		23.7	mg/Kg	6010C
Arsenic		4.90		2.37	mg/Kg	6010C
Barium		50.0		2.37	mg/Kg	6010C
Beryllium		0.284	J	1.18	mg/Kg	6010C
Cadmium		0.474	J	1.18	mg/Kg	6010C
Calcium		451		237	mg/Kg	6010C
Chromium		8.53		1.18	mg/Kg	6010C
Cobalt		5.05		2.37	mg/Kg	6010C
Copper		18.7		2.37	mg/Kg	6010C
Iron		7250		47.4	mg/Kg	6010C
Lead		39.9		1.18	mg/Kg	6010C
Magnesium		1530		237	mg/Kg	6010C
Manganese		295		3.55	mg/Kg	6010C
Nickel		10.2		2.37	mg/Kg	6010C
Potassium		361		237	mg/Kg	6010C
Vanadium		11.4	J	11.8	mg/Kg	6010C
Zinc		60.6		11.8	mg/Kg	6010C
Mercury		0.0588	J	0.114	mg/Kg	7471B
Percent Solids		84.1		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116559-9	**TP-305-6-7**					
Acetone		0.103		0.0458	mg/Kg	8260C
2-Butanone (MEK)		0.0165	J	0.0525	mg/Kg	8260C
m,p-Xylene		0.000838	J	0.00420	mg/Kg	8260C
Acenaphthene		0.0511	J	0.0817	mg/Kg	8270D
Chrysene		0.0472	J	0.0817	mg/Kg	8270D
Aluminum		7030		24.1	mg/Kg	6010C
Arsenic		9.58		2.41	mg/Kg	6010C
Barium		71.6		2.41	mg/Kg	6010C
Beryllium		0.362	J	1.21	mg/Kg	6010C
Cadmium		0.724	J	1.21	mg/Kg	6010C
Calcium		1050		241	mg/Kg	6010C
Chromium		9.90		1.21	mg/Kg	6010C
Cobalt		6.40		2.41	mg/Kg	6010C
Copper		31.5		2.41	mg/Kg	6010C
Iron		9500		48.3	mg/Kg	6010C
Lead		93.8		1.21	mg/Kg	6010C
Magnesium		1740		241	mg/Kg	6010C
Manganese		125		3.62	mg/Kg	6010C
Nickel		12.1		2.41	mg/Kg	6010C
Potassium		282		241	mg/Kg	6010C
Selenium		1.35	J	2.41	mg/Kg	6010C
Vanadium		12.6		12.1	mg/Kg	6010C
Zinc		72.5		12.1	mg/Kg	6010C
Mercury		0.0714	J	0.125	mg/Kg	7471B
Percent Solids		80.4		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116559-10	**TP-306-6-7**					
Acetone		0.0554	J B	0.0571	mg/Kg	8260C
Ethylbenzene		0.000993	J	0.00228	mg/Kg	8260C
m,p-Xylene		0.00171	J	0.00457	mg/Kg	8260C
o-Xylene		0.00122	J	0.00228	mg/Kg	8260C
Xylenes (total)		0.00293	J	0.00685	mg/Kg	8260C
Acenaphthene		0.106		0.0818	mg/Kg	8270D
Anthracene		0.0976		0.0818	mg/Kg	8270D
Benzo(b)fluoranthene		0.0347	J	0.0818	mg/Kg	8270D
Fluoranthene		0.0883		0.0818	mg/Kg	8270D
Fluorene		0.123		0.0818	mg/Kg	8270D
Phenanthrene		0.0840		0.0818	mg/Kg	8270D
Pyrene		0.0795	J	0.0818	mg/Kg	8270D
Aluminum		9600		23.7	mg/Kg	6010C
Arsenic		15.9		2.37	mg/Kg	6010C
Barium		99.2		2.37	mg/Kg	6010C
Beryllium		0.522	J	1.19	mg/Kg	6010C
Cadmium		0.569	J	1.19	mg/Kg	6010C
Calcium		830		237	mg/Kg	6010C
Chromium		11.6		1.19	mg/Kg	6010C
Cobalt		7.23		2.37	mg/Kg	6010C
Copper		77.6		2.37	mg/Kg	6010C
Iron		14000		47.4	mg/Kg	6010C
Lead		105		1.19	mg/Kg	6010C
Magnesium		1840		237	mg/Kg	6010C
Manganese		509		3.56	mg/Kg	6010C
Nickel		16.3		2.37	mg/Kg	6010C
Potassium		484		237	mg/Kg	6010C
Selenium		2.04	J	2.37	mg/Kg	6010C
Vanadium		16.7		11.9	mg/Kg	6010C
Zinc		106		11.9	mg/Kg	6010C
Mercury		0.138		0.120	mg/Kg	7471B
Percent Solids		80.6		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116559-11	**TP-307-6-7**					
Acetone		0.155		0.0663	mg/Kg	8260C
2-Butanone (MEK)		0.0166	J	0.0648	mg/Kg	8260C
Benzo(g,h,i)perylene		0.0696	J	0.0861	mg/Kg	8270D
Aluminum		11400		25.3	mg/Kg	6010C
Arsenic		12.5		2.53	mg/Kg	6010C
Barium		109		2.53	mg/Kg	6010C
Beryllium		0.531	J	1.27	mg/Kg	6010C
Cadmium		0.607	J	1.27	mg/Kg	6010C
Calcium		1110		253	mg/Kg	6010C
Chromium		13.7		1.27	mg/Kg	6010C
Cobalt		9.34		2.53	mg/Kg	6010C
Copper		66.2		2.53	mg/Kg	6010C
Iron		16500		50.6	mg/Kg	6010C
Lead		130		1.27	mg/Kg	6010C
Magnesium		2110		253	mg/Kg	6010C
Manganese		369		3.80	mg/Kg	6010C
Nickel		19.9		2.53	mg/Kg	6010C
Potassium		710		253	mg/Kg	6010C
Selenium		1.59	J	2.53	mg/Kg	6010C
Vanadium		19.1		12.7	mg/Kg	6010C
Zinc		136		12.7	mg/Kg	6010C
Mercury		0.369		0.126	mg/Kg	7471B
Percent Solids		76.0		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116560-1	**TP-308-6-7**					
Acetone		0.0298	J	0.0478	mg/Kg	8260C
Isopropylbenzene		0.000585	J	0.00191	mg/Kg	8260C
m,p-Xylene		0.00223	J	0.00382	mg/Kg	8260C
Naphthalene		0.0320		0.00478	mg/Kg	8260C
o-Xylene		0.00124	J	0.00191	mg/Kg	8260C
Xylenes (total)		0.00347	J	0.00574	mg/Kg	8260C
Acenaphthene		0.101		0.0840	mg/Kg	8270D
Fluoranthene		0.0634	J	0.0840	mg/Kg	8270D
Fluorene		0.0563	J	0.0840	mg/Kg	8270D
Phenanthrene		0.0692	J	0.0840	mg/Kg	8270D
Pyrene		0.0688	J	0.0840	mg/Kg	8270D
Aluminum		13000		24.5	mg/Kg	6010C
Arsenic		7.02		2.45	mg/Kg	6010C
Barium		83.2		2.45	mg/Kg	6010C
Beryllium		0.466	J	1.23	mg/Kg	6010C
Cadmium		0.344	J	1.23	mg/Kg	6010C
Calcium		804		245	mg/Kg	6010C
Chromium		15.2		1.23	mg/Kg	6010C
Cobalt		8.59		2.45	mg/Kg	6010C
Copper		14.5		2.45	mg/Kg	6010C
Iron		16400		49.1	mg/Kg	6010C
Lead		24.8		1.23	mg/Kg	6010C
Magnesium		2670		245	mg/Kg	6010C
Manganese		464		3.68	mg/Kg	6010C
Nickel		17.7		2.45	mg/Kg	6010C
Potassium		641		245	mg/Kg	6010C
Selenium		1.50	J	2.45	mg/Kg	6010C
Vanadium		19.0		12.3	mg/Kg	6010C
Zinc		61.9		12.3	mg/Kg	6010C
Mercury		0.0682	J	0.124	mg/Kg	7471B
Percent Solids		79.1		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116560-2	**END-416**					
Acetone		0.194		0.0590	mg/Kg	8260C
Benzene		0.00342		0.00236	mg/Kg	8260C
2-Butanone (MEK)		0.0202	J	0.0590	mg/Kg	8260C
m,p-Xylene		0.00138	J	0.00472	mg/Kg	8260C
Toluene		0.00193	J	0.00236	mg/Kg	8260C
Benzo(a)anthracene		0.0711	J	0.0793	mg/Kg	8270D
Benzo(a)pyrene		0.0808		0.0793	mg/Kg	8270D
Benzo(b)fluoranthene		0.124		0.0793	mg/Kg	8270D
Benzo(g,h,i)perylene		0.0762	J	0.0793	mg/Kg	8270D
Benzo(k)fluoranthene		0.0569	J	0.0793	mg/Kg	8270D
Chrysene		0.0914		0.0793	mg/Kg	8270D
Fluoranthene		0.0976		0.0793	mg/Kg	8270D
Ideno(1,2,3-cd)pyrene		0.0530	J	0.0793	mg/Kg	8270D
Phenanthrene		0.0522	J	0.0793	mg/Kg	8270D
Pyrene		0.105		0.0793	mg/Kg	8270D
Aluminum		11000		23.2	mg/Kg	6010C
Arsenic		11.3		2.32	mg/Kg	6010C
Barium		91.4		2.32	mg/Kg	6010C
Beryllium		0.510	J	1.16	mg/Kg	6010C
Cadmium		0.440	J	1.16	mg/Kg	6010C
Calcium		4460		232	mg/Kg	6010C
Chromium		14.2		1.16	mg/Kg	6010C
Cobalt		6.90		2.32	mg/Kg	6010C
Copper		25.2		2.32	mg/Kg	6010C
Iron		16200		46.3	mg/Kg	6010C
Lead		61.1		1.16	mg/Kg	6010C
Magnesium		2210		232	mg/Kg	6010C
Manganese		686		3.47	mg/Kg	6010C
Nickel		15.6		2.32	mg/Kg	6010C
Potassium		530		232	mg/Kg	6010C
Selenium		1.85	J	2.32	mg/Kg	6010C
Vanadium		17.9		11.6	mg/Kg	6010C
Zinc		74.6		11.6	mg/Kg	6010C
Mercury		0.0531	J	0.116	mg/Kg	7471B
Percent Solids		83.0		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116560-3	**END-413**					
Acetone		0.0784		0.0545	mg/Kg	8260C
Benzene		0.00129	J	0.00218	mg/Kg	8260C
2-Butanone (MEK)		0.00852	J	0.0545	mg/Kg	8260C
Aluminum		12100		24.5	mg/Kg	6010C
Arsenic		9.47		2.45	mg/Kg	6010C
Barium		57.8		2.45	mg/Kg	6010C
Beryllium		0.515	J	1.23	mg/Kg	6010C
Cadmium		0.319	J	1.23	mg/Kg	6010C
Calcium		1320		245	mg/Kg	6010C
Chromium		15.0		1.23	mg/Kg	6010C
Cobalt		11.0		2.45	mg/Kg	6010C
Copper		12.8		2.45	mg/Kg	6010C
Iron		19600		49.1	mg/Kg	6010C
Lead		15.6		1.23	mg/Kg	6010C
Magnesium		2930		245	mg/Kg	6010C
Manganese		434		3.68	mg/Kg	6010C
Nickel		19.5		2.45	mg/Kg	6010C
Potassium		607		245	mg/Kg	6010C
Selenium		1.62	J	2.45	mg/Kg	6010C
Vanadium		16.2		12.3	mg/Kg	6010C
Zinc		54.9		12.3	mg/Kg	6010C
Mercury		0.0382	J	0.119	mg/Kg	7471B
Percent Solids		81.3		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116560-4	**END-410**					
Acetone		0.0416	J	0.0523	mg/Kg	8260C
Benzene		0.00247		0.00209	mg/Kg	8260C
2-Butanone (MEK)		0.00791	J	0.0523	mg/Kg	8260C
m,p-Xylene		0.00236	J	0.00418	mg/Kg	8260C
Toluene		0.00162	J	0.00209	mg/Kg	8260C
Xylenes (total)		0.00236	J	0.00627	mg/Kg	8260C
Aluminum		12800		23.7	mg/Kg	6010C
Arsenic		11.2		2.37	mg/Kg	6010C
Barium		55.2		2.37	mg/Kg	6010C
Beryllium		0.546	J	1.19	mg/Kg	6010C
Cadmium		0.166	J	1.19	mg/Kg	6010C
Calcium		456		237	mg/Kg	6010C
Chromium		15.5		1.19	mg/Kg	6010C
Cobalt		9.21		2.37	mg/Kg	6010C
Copper		15.1		2.37	mg/Kg	6010C
Iron		22800		47.5	mg/Kg	6010C
Lead		17.2		1.19	mg/Kg	6010C
Magnesium		2940		237	mg/Kg	6010C
Manganese		363		3.56	mg/Kg	6010C
Nickel		20.7		2.37	mg/Kg	6010C
Potassium		668		237	mg/Kg	6010C
Selenium		1.88	J	2.37	mg/Kg	6010C
Vanadium		16.2		11.9	mg/Kg	6010C
Zinc		60.8		11.9	mg/Kg	6010C
Percent Solids		84.3		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116560-5	**END-411**					
Acetone		0.0553		0.0483	mg/Kg	8260C
2-Butanone (MEK)		0.0110	J	0.0483	mg/Kg	8260C
Isopropylbenzene		0.000810	J	0.00193	mg/Kg	8260C
m,p-Xylene		0.00131	J	0.00387	mg/Kg	8260C
Naphthalene		0.00411	J	0.00483	mg/Kg	8260C
n-Butylbenzene		0.00347		0.00193	mg/Kg	8260C
N-Propylbenzene		0.00121	J	0.00193	mg/Kg	8260C
o-Xylene		0.000831	J	0.00193	mg/Kg	8260C
sec-Butylbenzene		0.000771	J	0.00193	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.00564		0.00193	mg/Kg	8260C
Xylenes (total)		0.00214	J	0.00580	mg/Kg	8260C
Benzoic acid		0.0740	J	0.394	mg/Kg	8270D
Aluminum		11000		23.8	mg/Kg	6010C
Arsenic		10.8		2.38	mg/Kg	6010C
Barium		50.4		2.38	mg/Kg	6010C
Beryllium		0.524	J	1.19	mg/Kg	6010C
Calcium		517		238	mg/Kg	6010C
Chromium		12.2		1.19	mg/Kg	6010C
Cobalt		9.21		2.38	mg/Kg	6010C
Copper		15.2		2.38	mg/Kg	6010C
Iron		21900		47.6	mg/Kg	6010C
Lead		15.7		1.19	mg/Kg	6010C
Magnesium		2670		238	mg/Kg	6010C
Manganese		363		3.57	mg/Kg	6010C
Nickel		18.8		2.38	mg/Kg	6010C
Potassium		510		238	mg/Kg	6010C
Selenium		2.12	J	2.38	mg/Kg	6010C
Silver		0.857	J ^	1.19	mg/Kg	6010C
Vanadium		14.9		11.9	mg/Kg	6010C
Zinc		57.2		11.9	mg/Kg	6010C
Percent Solids		81.9		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116560-6	**END-417**					
Acetone		0.225		0.0551	mg/Kg	8260C
Benzene		0.00107	J	0.00221	mg/Kg	8260C
2-Butanone (MEK)		0.0366	J	0.0551	mg/Kg	8260C
Aluminum		6880		22.7	mg/Kg	6010C
Arsenic		9.61		2.27	mg/Kg	6010C
Barium		60.2		2.27	mg/Kg	6010C
Beryllium		0.455	J	1.14	mg/Kg	6010C
Cadmium		0.273	J	1.14	mg/Kg	6010C
Calcium		1060		227	mg/Kg	6010C
Chromium		6.64		1.14	mg/Kg	6010C
Cobalt		6.68		2.27	mg/Kg	6010C
Copper		25.2		2.27	mg/Kg	6010C
Iron		14100		45.5	mg/Kg	6010C
Lead		61.3		1.14	mg/Kg	6010C
Magnesium		1570		227	mg/Kg	6010C
Manganese		1940		3.41	mg/Kg	6010C
Nickel		13.1		2.27	mg/Kg	6010C
Potassium		849		227	mg/Kg	6010C
Selenium		1.95	J	2.27	mg/Kg	6010C
Silver		0.932	J ^	1.14	mg/Kg	6010C
Vanadium		13.4		11.4	mg/Kg	6010C
Zinc		63.1		11.4	mg/Kg	6010C
Percent Solids		88.7		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116560-7	**END-415**					
Acetone		0.0768		0.0487	mg/Kg	8260C
2-Butanone (MEK)		0.0112	J	0.0487	mg/Kg	8260C
Aluminum		11700		23.7	mg/Kg	6010C
Arsenic		18.6		2.37	mg/Kg	6010C
Barium		56.4		2.37	mg/Kg	6010C
Beryllium		0.545	J	1.18	mg/Kg	6010C
Calcium		489		237	mg/Kg	6010C
Chromium		12.1		1.18	mg/Kg	6010C
Cobalt		11.6		2.37	mg/Kg	6010C
Copper		14.9		2.37	mg/Kg	6010C
Iron		27900		47.4	mg/Kg	6010C
Lead		14.6		1.18	mg/Kg	6010C
Magnesium		2770		237	mg/Kg	6010C
Manganese		229		3.55	mg/Kg	6010C
Nickel		20.2		2.37	mg/Kg	6010C
Potassium		593		237	mg/Kg	6010C
Selenium		2.61		2.37	mg/Kg	6010C
Silver		1.04	J ^	1.18	mg/Kg	6010C
Vanadium		15.5		11.8	mg/Kg	6010C
Zinc		50.4		11.8	mg/Kg	6010C
Percent Solids		83.1		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116560-8	**END-414**					
Acetone		0.0441	J	0.0476	mg/Kg	8260C
2-Butanone (MEK)		0.00764	J	0.0476	mg/Kg	8260C
m,p-Xylene		0.00131	J	0.00381	mg/Kg	8260C
Toluene		0.000708	J	0.00190	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.00109	J	0.00190	mg/Kg	8260C
Xylenes (total)		0.00131	J	0.00571	mg/Kg	8260C
Aluminum		15200		23.2	mg/Kg	6010C
Arsenic		14.8		2.32	mg/Kg	6010C
Barium		58.0		2.32	mg/Kg	6010C
Beryllium		0.626	J	1.16	mg/Kg	6010C
Calcium		822		232	mg/Kg	6010C
Chromium		15.9		1.16	mg/Kg	6010C
Cobalt		11.9		2.32	mg/Kg	6010C
Copper		17.4		2.32	mg/Kg	6010C
Iron		27700		46.4	mg/Kg	6010C
Lead		16.7		1.16	mg/Kg	6010C
Magnesium		3340		232	mg/Kg	6010C
Manganese		280		3.48	mg/Kg	6010C
Nickel		21.2		2.32	mg/Kg	6010C
Potassium		986		232	mg/Kg	6010C
Selenium		2.62		2.32	mg/Kg	6010C
Silver		1.04	J ^	1.16	mg/Kg	6010C
Vanadium		20.8		11.6	mg/Kg	6010C
Zinc		58.6		11.6	mg/Kg	6010C
Percent Solids		82.3		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116560-9	**END-412**					
Acetone		0.0715		0.0479	mg/Kg	8260C
Benzene		0.0122		0.00192	mg/Kg	8260C
2-Butanone (MEK)		0.0141	J	0.0479	mg/Kg	8260C
Ethylbenzene		0.000711	J	0.00192	mg/Kg	8260C
m,p-Xylene		0.00849		0.00383	mg/Kg	8260C
o-Xylene		0.00285		0.00192	mg/Kg	8260C
Toluene		0.0165		0.00192	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.00180	J	0.00192	mg/Kg	8260C
Xylenes (total)		0.0113		0.00575	mg/Kg	8260C
Aluminum		11400		24.7	mg/Kg	6010C
Arsenic		7.26		2.47	mg/Kg	6010C
Barium		66.8		2.47	mg/Kg	6010C
Beryllium		0.469	J	1.23	mg/Kg	6010C
Cadmium		0.321	J	1.23	mg/Kg	6010C
Calcium		1370		247	mg/Kg	6010C
Chromium		11.6		1.23	mg/Kg	6010C
Cobalt		8.69		2.47	mg/Kg	6010C
Copper		11.5		2.47	mg/Kg	6010C
Iron		14700		49.4	mg/Kg	6010C
Lead		13.9		1.23	mg/Kg	6010C
Magnesium		2160		247	mg/Kg	6010C
Manganese		334		3.70	mg/Kg	6010C
Nickel		15.0		2.47	mg/Kg	6010C
Potassium		782		247	mg/Kg	6010C
Selenium		1.63	J	2.47	mg/Kg	6010C
Silver		0.543	J ^	1.23	mg/Kg	6010C
Vanadium		17.5		12.3	mg/Kg	6010C
Zinc		45.8		12.3	mg/Kg	6010C
Percent Solids		80.2		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116560-10	**END-422**					
Acetone		0.115		0.0763	mg/Kg	8260C
Benzene		0.00302	J	0.00305	mg/Kg	8260C
2-Butanone (MEK)		0.0147	J	0.0763	mg/Kg	8260C
m,p-Xylene		0.00176	J	0.00610	mg/Kg	8260C
Naphthalene		0.00433	J	0.00763	mg/Kg	8260C
Toluene		0.00390		0.00305	mg/Kg	8260C
Acenaphthylene		0.257	J	0.398	mg/Kg	8270D
Benzo(a)anthracene		0.505		0.398	mg/Kg	8270D
Benzo(a)pyrene		0.791		0.398	mg/Kg	8270D
Benzo(b)fluoranthene		1.15		0.398	mg/Kg	8270D
Benzo(g,h,i)perylene		0.837		0.398	mg/Kg	8270D
Benzo(k)fluoranthene		0.605		0.398	mg/Kg	8270D
Chrysene		0.927		0.398	mg/Kg	8270D
Fluoranthene		0.957		0.398	mg/Kg	8270D
Ideno(1,2,3-cd)pyrene		0.634		0.398	mg/Kg	8270D
Naphthalene		0.271	J	0.398	mg/Kg	8270D
Phenanthrene		0.206	J	0.398	mg/Kg	8270D
Pyrene		0.960		0.398	mg/Kg	8270D
Aluminum		10600		23.9	mg/Kg	6010C
Arsenic		12.4		2.39	mg/Kg	6010C
Barium		76.9		2.39	mg/Kg	6010C
Beryllium		0.431	J	1.20	mg/Kg	6010C
Cadmium		0.311	J	1.20	mg/Kg	6010C
Calcium		829		239	mg/Kg	6010C
Chromium		11.9		1.20	mg/Kg	6010C
Cobalt		6.85		2.39	mg/Kg	6010C
Copper		57.4		2.39	mg/Kg	6010C
Iron		15500		47.9	mg/Kg	6010C
Lead		44.3		1.20	mg/Kg	6010C
Magnesium		2320		239	mg/Kg	6010C
Manganese		333		3.59	mg/Kg	6010C
Nickel		13.7		2.39	mg/Kg	6010C
Potassium		749		239	mg/Kg	6010C
Selenium		1.36	J	2.39	mg/Kg	6010C
Silver		0.575	J ^	1.20	mg/Kg	6010C
Vanadium		17.4		12.0	mg/Kg	6010C
Zinc		60.4		12.0	mg/Kg	6010C
Mercury		0.0510	J	0.120	mg/Kg	7471B
Percent Solids		82.6		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116560-11	**END-421**					
Acetone		0.488		0.0581	mg/Kg	8260C
Benzene		0.00269		0.00233	mg/Kg	8260C
2-Butanone (MEK)		0.0950		0.0581	mg/Kg	8260C
Carbon disulfide		0.00642		0.00581	mg/Kg	8260C
Isopropylbenzene		0.0849		0.00233	mg/Kg	8260C
n-Butylbenzene		0.698		0.0929	mg/Kg	8260C
N-Propylbenzene		0.162		0.0929	mg/Kg	8260C
p-Isopropyltoluene		0.0666	J	0.0929	mg/Kg	8260C
sec-Butylbenzene		0.737		0.0929	mg/Kg	8260C
tert-Butylbenzene		0.176		0.0929	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.885		0.0929	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.487		0.0929	mg/Kg	8260C
Anthracene		0.218		0.0746	mg/Kg	8270D
Benzo(a)anthracene		0.176		0.0746	mg/Kg	8270D
Benzo(a)pyrene		0.133		0.0746	mg/Kg	8270D
Benzo(g,h,i)perylene		0.110		0.0746	mg/Kg	8270D
Chrysene		0.291		0.0746	mg/Kg	8270D
Fluoranthene		0.274		0.0746	mg/Kg	8270D
Fluorene		0.432		0.0746	mg/Kg	8270D
Ideno(1,2,3-cd)pyrene		0.0398	J	0.0746	mg/Kg	8270D
1-Methylnaphthalene		2.19		0.0746	mg/Kg	8270D
2-Methylnaphthalene		0.0766		0.0746	mg/Kg	8270D
Naphthalene		0.0442	J	0.0746	mg/Kg	8270D
Phenanthrene		1.44		0.0746	mg/Kg	8270D
Pyrene		0.734		0.0746	mg/Kg	8270D
Aluminum		5480		22.1	mg/Kg	6010C
Arsenic		7.13		2.21	mg/Kg	6010C
Barium		52.1		2.21	mg/Kg	6010C
Beryllium		0.288	J	1.11	mg/Kg	6010C
Cadmium		0.310	J	1.11	mg/Kg	6010C
Calcium		739		221	mg/Kg	6010C
Chromium		5.73		1.11	mg/Kg	6010C
Cobalt		4.85		2.21	mg/Kg	6010C
Copper		39.2		2.21	mg/Kg	6010C
Iron		10200		44.3	mg/Kg	6010C
Lead		7.86		1.11	mg/Kg	6010C
Magnesium		1360		221	mg/Kg	6010C
Manganese		174		3.32	mg/Kg	6010C
Nickel		10.7		2.21	mg/Kg	6010C
Potassium		457		221	mg/Kg	6010C
Vanadium		7.46	J	11.1	mg/Kg	6010C
Zinc		42.0		11.1	mg/Kg	6010C
Percent Solids		89.3		0.1	%	Moisture

METHOD SUMMARY

Client: Roux Associates, Inc. Job Number: 490-116559-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS	TAL NSH	SW846 8260C	
Closed System Purge & Trap/Field Methanol	TAL NSH		SW846 5035A
Volatile Organic Compounds by GC/MS	TAL NSH	SW846 8260C	
Closed System Purge and Trap	TAL NSH		SW846 5035A
Semivolatile Organic Compounds (GC/MS)	TAL NSH	SW846 8270D	
Ultrasonic Extraction	TAL NSH		SW846 3550C
Metals (ICP)	TAL NSH	SW846 6010C	
Preparation, Metals, Microwave Assisted	TAL NSH		SW846 3051A
Mercury (CVAA)	TAL NSH	SW846 7471B	
Preparation, Mercury	TAL NSH		SW846 7471B
Percent Moisture	TAL NSH	EPA Moisture	

Lab References:

TAL NSH = TestAmerica Nashville

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Roux Associates, Inc. Job Number: 490-116559-1

Method	Analyst	Analyst ID
SW846 8260C	Anthony, Ian M	IMA
SW846 8260C	Larsen, Eric	EML
SW846 8270D	Chaiyasit, Thitima 1	T1C
SW846 8270D	Squires, William D	WDS
SW846 6010C	Fly, Robyn D	RDF
SW846 7471B	Smith, Lauren C	LCS
EPA Moisture	Ali, Blnd A	BAA

SAMPLE SUMMARY

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
490-116559-1	END-406	Solid	11/14/2016 0930	11/21/2016 0830
490-116559-2	TP-300-6-7	Solid	11/15/2016 0930	11/21/2016 0830
490-116559-3	TP-301-6-7	Solid	11/15/2016 1130	11/21/2016 0830
490-116559-4	END-408	Solid	11/15/2016 0905	11/21/2016 0830
490-116559-5	END-409	Solid	11/15/2016 0930	11/21/2016 0830
490-116559-6	TP-302-6-7	Solid	11/15/2016 1335	11/21/2016 0830
490-116559-7	TP-303-6-7	Solid	11/15/2016 1430	11/21/2016 0830
490-116559-8	TP-304-6-7	Solid	11/16/2016 0900	11/21/2016 0830
490-116559-9	TP-305-6-7	Solid	11/16/2016 1030	11/21/2016 0830
490-116559-10	TP-306-6-7	Solid	11/16/2016 1000	11/21/2016 0830
490-116559-11	TP-307-6-7	Solid	11/17/2016 1030	11/21/2016 0830
490-116560-1	TP-308-6-7	Solid	11/17/2016 1100	11/21/2016 0830
490-116560-2	END-416	Solid	11/15/2016 1545	11/21/2016 0830
490-116560-3	END-413	Solid	11/15/2016 1500	11/21/2016 0830
490-116560-4	END-410	Solid	11/15/2016 1430	11/21/2016 0830
490-116560-5	END-411	Solid	11/15/2016 1435	11/21/2016 0830
490-116560-6	END-417	Solid	11/15/2016 1545	11/21/2016 0830
490-116560-7	END-415	Solid	11/15/2016 1545	11/21/2016 0830
490-116560-8	END-414	Solid	11/15/2016 1530	11/21/2016 0830
490-116560-9	END-412	Solid	11/15/2016 1500	11/21/2016 0830
490-116560-10	END-422	Solid	11/17/2016 0945	11/21/2016 0830
490-116560-11	END-421	Solid	11/17/2016 0815	11/21/2016 0830

SAMPLE RESULTS

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-406

Lab Sample ID: 490-116559-1 Date Sampled: 11/14/2016 0930
Client Matrix: Solid % Moisture: 16.7 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-38.D
Dilution:	1.0			Initial Weight/Volume:	4.237 g
Analysis Date:	11/26/2016 0332			Final Weight/Volume:	5.0 mL
Prep Date:	11/14/2016 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.317	B	0.0119	0.0708
Benzene		0.0113		0.000949	0.00283
Bromobenzene		0.00102	U	0.00102	0.00283
Bromochloromethane		0.000779	U	0.000779	0.00283
Bromodichloromethane		0.000779	U	0.000779	0.00283
Bromoform		0.000779	U	0.000779	0.00283
Bromomethane		0.00170	U	0.00170	0.00283
2-Butanone (MEK)		0.0458	J	0.00722	0.0708
Carbon disulfide		0.00510	U	0.00510	0.00708
Carbon tetrachloride		0.000949	U	0.000949	0.00283
Chlorobenzene		0.000949	U	0.000949	0.00283
Chloroethane		0.00269	U	0.00269	0.00708
Chloroform		0.000949	U	0.000949	0.00283
Chloromethane		0.000949	U	0.000949	0.00283
cis-1,2-Dichloroethene		0.000949	U	0.000949	0.00283
cis-1,3-Dichloropropene		0.000949	U	0.000949	0.00283
Dibromochloromethane		0.000482	U	0.000482	0.00283
1,2-Dibromo-3-chloropropane		0.000991	U	0.000991	0.00708
1,2-Dibromoethane		0.00142	U	0.00142	0.00283
1,2-Dichlorobenzene		0.000482	U	0.000482	0.00283
1,3-Dichlorobenzene		0.000949	U	0.000949	0.00283
1,4-Dichlorobenzene		0.000949	U	0.000949	0.00283
Dichlorodifluoromethane		0.00142	U	0.00142	0.00283
1,1-Dichloroethane		0.000949	U	0.000949	0.00283
1,2-Dichloroethane		0.000949	U	0.000949	0.00283
1,1-Dichloroethene		0.000807	U	0.000807	0.00283
1,2-Dichloropropane		0.00133	U	0.00133	0.00283
1,3-Dichloropropane		0.00133	U	0.00133	0.00283
2,2-Dichloropropane		0.000949	U	0.000949	0.00283
1,1-Dichloropropene		0.000722	U	0.000722	0.00283
Ethylbenzene		0.00649		0.000949	0.00283
Hexachlorobutadiene		0.00161	U	0.00161	0.00708
2-Hexanone		0.0237	U	0.0237	0.0708
Iodomethane		0.00949	U	0.00949	0.0283
Isopropylbenzene		0.00954		0.000581	0.00283
Methylene bromide		0.000793	U	0.000793	0.00283
Methylene Chloride		0.00122	U	0.00122	0.0142
4-Methyl-2-pentanone (MIBK)		0.00269	U	0.00269	0.0708
Methyl tert butyl ether		0.00136	U	0.00136	0.00283
m,p-Xylene		0.0197		0.000793	0.00567
Naphthalene		0.00241	U	0.00241	0.00708
n-Butylbenzene		0.00139	U	0.00139	0.00283
N-Propylbenzene		0.0172		0.000949	0.00283
o-Chlorotoluene		0.00126	U	0.00126	0.00283
o-Xylene		0.0118		0.000949	0.00283
p-Chlorotoluene		0.00119	U	0.00119	0.00283

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-406

Lab Sample ID: 490-116559-1 Date Sampled: 11/14/2016 0930
Client Matrix: Solid % Moisture: 16.7 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-38.D
Dilution:	1.0			Initial Weight/Volume:	4.237 g
Analysis Date:	11/26/2016 0332			Final Weight/Volume:	5.0 mL
Prep Date:	11/14/2016 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.0194		0.000949	0.00283
sec-Butylbenzene		0.00900		0.000949	0.00283
Styrene		0.00156	U	0.00156	0.00283
tert-Butylbenzene		0.00127	U	0.00127	0.00283
1,1,1,2-Tetrachloroethane		0.000949	U	0.000949	0.00283
1,1,2,2-Tetrachloroethane		0.00142	U	0.00142	0.00283
Tetrachloroethene		0.00103	U	0.00103	0.00283
Toluene		0.00105	U	0.00105	0.00283
trans-1,2-Dichloroethene		0.000949	U	0.000949	0.00283
trans-1,3-Dichloropropene		0.000949	U	0.000949	0.00283
1,2,3-Trichlorobenzene		0.000538	U	0.000538	0.00283
1,2,4-Trichlorobenzene		0.000949	U	0.000949	0.00283
1,1,1-Trichloroethane		0.00130	U	0.00130	0.00283
1,1,2-Trichloroethane		0.00198	U	0.00198	0.00708
Trichloroethene		0.00136	U	0.00136	0.00283
Trichlorofluoromethane		0.00142	U	0.00142	0.00283
1,2,3-Trichloropropane		0.000779	U	0.000779	0.00283
1,2,4-Trimethylbenzene		0.302		0.00142	0.00283
1,3,5-Trimethylbenzene		0.0639		0.00106	0.00283
Vinyl chloride		0.00156	U	0.00156	0.00283
Xylenes (total)		0.0315		0.00174	0.00850

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
Toluene-d8 (Surr)	114		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-406

Lab Sample ID: 490-116559-1 Date Sampled: 11/14/2016 0930
Client Matrix: Solid % Moisture: 16.7 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-38.D
Dilution:	1.0			Initial Weight/Volume:	4.237 g
Analysis Date:	11/26/2016 0332			Final Weight/Volume:	5.0 mL
Prep Date:	11/14/2016 0830				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
96-14-0	Pentane, 3-methyl-	3.20	0.515	J N
590-35-2	Pentane, 2,2-dimethyl-	3.67	0.211	J N
108-08-7	Pentane, 2,4-dimethyl-	3.73	0.256	J N
96-37-7	Cyclopentane, methyl-	3.81	0.445	J N
140-88-5	Ethyl acrylate	5.12	0.769	E *
108-87-2	Methylcyclohexane	5.12	0.599	E
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	6.19	0.221	J N
2234-75-5	Cyclohexane, 1,2,4-trimethyl-	6.93	0.382	J N
17301-94-9	Nonane, 4-methyl-	8.18	0.251	J N
91-17-8	Naphthalene, decahydro-	9.77	0.237	J N

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-406

Lab Sample ID: 490-116559-1 Date Sampled: 11/14/2016 0930
Client Matrix: Solid % Moisture: 16.7 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390019	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389095	Lab File ID:	112816-22.D
Dilution:	1.0			Initial Weight/Volume:	2.753 g
Analysis Date:	11/28/2016 2001			Final Weight/Volume:	5.0 mL
Prep Date:	11/14/2016 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl acetate		0.524	U	0.524	2.38

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	92		70 - 130
1,2-Dichloroethane-d4 (Surr)	92		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-300-6-7

Lab Sample ID: 490-116559-2 Date Sampled: 11/15/2016 0930
Client Matrix: Solid % Moisture: 8.4 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-39.D
Dilution:	1.0			Initial Weight/Volume:	5.44 g
Analysis Date:	11/26/2016 0402			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		1.03	B	0.00843	0.0502
Benzene		0.0124		0.000672	0.00201
Bromobenzene		0.000722	U	0.000722	0.00201
Bromochloromethane		0.000552	U	0.000552	0.00201
Bromodichloromethane		0.000552	U	0.000552	0.00201
Bromoform		0.000552	U	0.000552	0.00201
Bromomethane		0.00268		0.00120	0.00201
2-Butanone (MEK)		0.264		0.00512	0.0502
Carbon disulfide		0.00361	U	0.00361	0.00502
Carbon tetrachloride		0.000672	U	0.000672	0.00201
Chlorobenzene		0.000672	U	0.000672	0.00201
Chloroethane		0.00191	U	0.00191	0.00502
Chloroform		0.000672	U	0.000672	0.00201
Chloromethane		0.000672	U	0.000672	0.00201
cis-1,2-Dichloroethene		0.000672	U	0.000672	0.00201
cis-1,3-Dichloropropene		0.000672	U	0.000672	0.00201
Dibromochloromethane		0.000341	U	0.000341	0.00201
1,2-Dibromo-3-chloropropane		0.000702	U	0.000702	0.00502
1,2-Dibromoethane		0.00100	U	0.00100	0.00201
1,2-Dichlorobenzene		0.000341	U	0.000341	0.00201
1,3-Dichlorobenzene		0.000672	U	0.000672	0.00201
1,4-Dichlorobenzene		0.000672	U	0.000672	0.00201
Dichlorodifluoromethane		0.00100	U	0.00100	0.00201
1,1-Dichloroethane		0.000672	U	0.000672	0.00201
1,2-Dichloroethane		0.000672	U	0.000672	0.00201
1,1-Dichloroethene		0.000572	U	0.000572	0.00201
1,2-Dichloropropane		0.000943	U	0.000943	0.00201
1,3-Dichloropropane		0.000943	U	0.000943	0.00201
2,2-Dichloropropane		0.000672	U	0.000672	0.00201
1,1-Dichloropropene		0.000512	U	0.000512	0.00201
Ethylbenzene		0.00172	J	0.000672	0.00201
Hexachlorobutadiene		0.00114	U	0.00114	0.00502
2-Hexanone		0.0305	J	0.0168	0.0502
Iodomethane		0.00672	U	0.00672	0.0201
Isopropylbenzene		0.000411	U	0.000411	0.00201
Methylene bromide		0.000562	U	0.000562	0.00201
Methylene Chloride		0.000863	U	0.000863	0.0100
4-Methyl-2-pentanone (MIBK)		0.00191	U	0.00191	0.0502
Methyl tert butyl ether		0.000963	U	0.000963	0.00201
m,p-Xylene		0.00409		0.000562	0.00401
Naphthalene		0.00171	U	0.00171	0.00502
n-Butylbenzene		0.000983	U	0.000983	0.00201
N-Propylbenzene		0.000672	U	0.000672	0.00201
o-Chlorotoluene		0.000893	U	0.000893	0.00201
o-Xylene		0.00179	J	0.000672	0.00201
p-Chlorotoluene		0.000843	U	0.000843	0.00201

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-300-6-7

Lab Sample ID: 490-116559-2 Date Sampled: 11/15/2016 0930
Client Matrix: Solid % Moisture: 8.4 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-39.D
Dilution:	1.0			Initial Weight/Volume:	5.44 g
Analysis Date:	11/26/2016 0402			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000672	U	0.000672	0.00201
sec-Butylbenzene		0.000672	U	0.000672	0.00201
Styrene		0.00110	U	0.00110	0.00201
tert-Butylbenzene		0.000903	U	0.000903	0.00201
1,1,1,2-Tetrachloroethane		0.000672	U	0.000672	0.00201
1,1,2,2-Tetrachloroethane		0.00100	U	0.00100	0.00201
Tetrachloroethene		0.000732	U	0.000732	0.00201
Toluene		0.0153		0.000742	0.00201
trans-1,2-Dichloroethene		0.000672	U	0.000672	0.00201
trans-1,3-Dichloropropene		0.000672	U	0.000672	0.00201
1,2,3-Trichlorobenzene		0.000381	U	0.000381	0.00201
1,2,4-Trichlorobenzene		0.000672	U	0.000672	0.00201
1,1,1-Trichloroethane		0.000923	U	0.000923	0.00201
1,1,2-Trichloroethane		0.00140	U	0.00140	0.00502
Trichloroethene		0.000963	U	0.000963	0.00201
Trichlorofluoromethane		0.00100	U	0.00100	0.00201
1,2,3-Trichloropropane		0.000552	U	0.000552	0.00201
1,2,4-Trimethylbenzene		0.00100	U	0.00100	0.00201
1,3,5-Trimethylbenzene		0.000752	U	0.000752	0.00201
Vinyl chloride		0.00110	U	0.00110	0.00201
Xylenes (total)		0.00588	J	0.00123	0.00602

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-300-6-7

Lab Sample ID: 490-116559-2 Date Sampled: 11/15/2016 0930
Client Matrix: Solid % Moisture: 8.4 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-39.D
Dilution:	1.0			Initial Weight/Volume:	5.44 g
Analysis Date:	11/26/2016 0402			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 0830				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
75-07-0	Acetaldehyde	1.95	0.467	J N
78-78-4	Butane, 2-methyl-	2.23	0.609	J N
109-66-0	Pentane	2.40	0.610	J N
67-63-0	Isopropyl alcohol	2.82	0.0948	
110-54-3	Hexane	3.37	0.0486	
123-72-8	Butanal	3.77	0.191	J N
96-37-7	Cyclopentane, methyl-	3.82	0.189	J N
140-88-5	Ethyl acrylate	5.12	0.0413	*
	Unknown	5.55	0.635	J
2207-04-7	Cyclohexane, 1,4-dimethyl-, trans-	5.89	0.928	J N

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-300-6-7

Lab Sample ID: 490-116559-2 Date Sampled: 11/15/2016 0930
Client Matrix: Solid % Moisture: 8.4 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390019	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112816-11.D
Dilution:	1.0			Initial Weight/Volume:	5.691 g
Analysis Date:	11/28/2016 1423			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl acetate		0.00422	U *	0.00422	0.0192

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-301-6-7

Lab Sample ID: 490-116559-3 Date Sampled: 11/15/2016 1130
Client Matrix: Solid % Moisture: 10.5 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-40.D
Dilution:	1.0			Initial Weight/Volume:	3.781 g
Analysis Date:	11/26/2016 0432			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.472	B	0.0124	0.0739
Benzene		0.00361		0.000990	0.00296
Bromobenzene		0.00106	U	0.00106	0.00296
Bromochloromethane		0.000813	U	0.000813	0.00296
Bromodichloromethane		0.000813	U	0.000813	0.00296
Bromoform		0.000813	U	0.000813	0.00296
Bromomethane		0.00177	U	0.00177	0.00296
2-Butanone (MEK)		0.117		0.00754	0.0739
Carbon disulfide		0.00532	U	0.00532	0.00739
Carbon tetrachloride		0.000990	U	0.000990	0.00296
Chlorobenzene		0.000990	U	0.000990	0.00296
Chloroethane		0.00281	U	0.00281	0.00739
Chloroform		0.000990	U	0.000990	0.00296
Chloromethane		0.000990	U	0.000990	0.00296
cis-1,2-Dichloroethene		0.000990	U	0.000990	0.00296
cis-1,3-Dichloropropene		0.000990	U	0.000990	0.00296
Dibromochloromethane		0.000502	U	0.000502	0.00296
1,2-Dibromo-3-chloropropane		0.00103	U	0.00103	0.00739
1,2-Dibromoethane		0.00148	U	0.00148	0.00296
1,2-Dichlorobenzene		0.000502	U	0.000502	0.00296
1,3-Dichlorobenzene		0.000990	U	0.000990	0.00296
1,4-Dichlorobenzene		0.000990	U	0.000990	0.00296
Dichlorodifluoromethane		0.00148	U	0.00148	0.00296
1,1-Dichloroethane		0.000990	U	0.000990	0.00296
1,2-Dichloroethane		0.000990	U	0.000990	0.00296
1,1-Dichloroethene		0.000842	U	0.000842	0.00296
1,2-Dichloropropane		0.00139	U	0.00139	0.00296
1,3-Dichloropropane		0.00139	U	0.00139	0.00296
2,2-Dichloropropane		0.000990	U	0.000990	0.00296
1,1-Dichloropropene		0.000754	U	0.000754	0.00296
Ethylbenzene		0.000990	U	0.000990	0.00296
Hexachlorobutadiene		0.00168	U	0.00168	0.00739
2-Hexanone		0.0247	U	0.0247	0.0739
Iodomethane		0.00990	U	0.00990	0.0296
Isopropylbenzene		0.000606	U	0.000606	0.00296
Methylene bromide		0.000827	U	0.000827	0.00296
Methylene Chloride		0.00127	U	0.00127	0.0148
4-Methyl-2-pentanone (MIBK)		0.00281	U	0.00281	0.0739
Methyl tert butyl ether		0.00142	U	0.00142	0.00296
m,p-Xylene		0.00313	J	0.000827	0.00591
Naphthalene		0.00251	U	0.00251	0.00739
n-Butylbenzene		0.00145	U	0.00145	0.00296
N-Propylbenzene		0.000990	U	0.000990	0.00296
o-Chlorotoluene		0.00132	U	0.00132	0.00296
o-Xylene		0.00141	J	0.000990	0.00296
p-Chlorotoluene		0.00124	U	0.00124	0.00296

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-301-6-7

Lab Sample ID: 490-116559-3 Date Sampled: 11/15/2016 1130
Client Matrix: Solid % Moisture: 10.5 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-40.D
Dilution:	1.0			Initial Weight/Volume:	3.781 g
Analysis Date:	11/26/2016 0432			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000990	U	0.000990	0.00296
sec-Butylbenzene		0.000990	U	0.000990	0.00296
Styrene		0.00163	U	0.00163	0.00296
tert-Butylbenzene		0.00133	U	0.00133	0.00296
1,1,1,2-Tetrachloroethane		0.000990	U	0.000990	0.00296
1,1,2,2-Tetrachloroethane		0.00148	U	0.00148	0.00296
Tetrachloroethene		0.00108	U	0.00108	0.00296
Toluene		0.00512		0.00109	0.00296
trans-1,2-Dichloroethene		0.000990	U	0.000990	0.00296
trans-1,3-Dichloropropene		0.000990	U	0.000990	0.00296
1,2,3-Trichlorobenzene		0.000561	U	0.000561	0.00296
1,2,4-Trichlorobenzene		0.000990	U	0.000990	0.00296
1,1,1-Trichloroethane		0.00136	U	0.00136	0.00296
1,1,2-Trichloroethane		0.00207	U	0.00207	0.00739
Trichloroethene		0.00142	U	0.00142	0.00296
Trichlorofluoromethane		0.00148	U	0.00148	0.00296
1,2,3-Trichloropropane		0.000813	U	0.000813	0.00296
1,2,4-Trimethylbenzene		0.00148	U	0.00148	0.00296
1,3,5-Trimethylbenzene		0.00111	U	0.00111	0.00296
Vinyl chloride		0.00163	U	0.00163	0.00296
Xylenes (total)		0.00454	J	0.00182	0.00887

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-301-6-7

Lab Sample ID: 490-116559-3 Date Sampled: 11/15/2016 1130
Client Matrix: Solid % Moisture: 10.5 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-40.D
Dilution:	1.0			Initial Weight/Volume:	3.781 g
Analysis Date:	11/26/2016 0432			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1030				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
78-78-4	Butane, 2-methyl-	2.23	0.262	J N
109-66-0	Pentane	2.40	0.197	J N
67-63-0	Isopropyl alcohol	2.83	0.0733	J
79-20-9	Methyl acetate	2.96	0.00918	J
110-54-3	Hexane	3.37	0.0177	
142-82-5	n-Heptane	4.65	0.00875	
71-36-3	n-Butanol	4.88	0.0463	J
140-88-5	Ethyl acrylate	5.12	0.0139	J *
108-87-2	Methylcyclohexane	5.12	0.0120	J
79-46-9	2-Nitropropane	5.55	0.0181	

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-301-6-7

Lab Sample ID: 490-116559-3 Date Sampled: 11/15/2016 1130
Client Matrix: Solid % Moisture: 10.5 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390019	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112816-12.D
Dilution:	1.0			Initial Weight/Volume:	6.76 g
Analysis Date:	11/28/2016 1455			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl acetate		0.00364	U *	0.00364	0.0165

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-408

Lab Sample ID: 490-116559-4 Date Sampled: 11/15/2016 0905
Client Matrix: Solid % Moisture: 11.1 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-41.D
Dilution:	1.0			Initial Weight/Volume:	5.017 g
Analysis Date:	11/26/2016 0502			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 0805				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0551	J B	0.00942	0.0560
Benzene		0.000751	U	0.000751	0.00224
Bromobenzene		0.000807	U	0.000807	0.00224
Bromochloromethane		0.000617	U	0.000617	0.00224
Bromodichloromethane		0.000617	U	0.000617	0.00224
Bromoform		0.000617	U	0.000617	0.00224
Bromomethane		0.00135	U	0.00135	0.00224
2-Butanone (MEK)		0.00736	J	0.00572	0.0560
Carbon disulfide		0.00404	U	0.00404	0.00560
Carbon tetrachloride		0.000751	U	0.000751	0.00224
Chlorobenzene		0.000751	U	0.000751	0.00224
Chloroethane		0.00213	U	0.00213	0.00560
Chloroform		0.000751	U	0.000751	0.00224
Chloromethane		0.000751	U	0.000751	0.00224
cis-1,2-Dichloroethene		0.000751	U	0.000751	0.00224
cis-1,3-Dichloropropene		0.000751	U	0.000751	0.00224
Dibromochloromethane		0.000381	U	0.000381	0.00224
1,2-Dibromo-3-chloropropane		0.000785	U	0.000785	0.00560
1,2-Dibromoethane		0.00112	U	0.00112	0.00224
1,2-Dichlorobenzene		0.000381	U	0.000381	0.00224
1,3-Dichlorobenzene		0.000751	U	0.000751	0.00224
1,4-Dichlorobenzene		0.000751	U	0.000751	0.00224
Dichlorodifluoromethane		0.00112	U	0.00112	0.00224
1,1-Dichloroethane		0.000751	U	0.000751	0.00224
1,2-Dichloroethane		0.000751	U	0.000751	0.00224
1,1-Dichloroethene		0.000639	U	0.000639	0.00224
1,2-Dichloropropane		0.00105	U	0.00105	0.00224
1,3-Dichloropropane		0.00105	U	0.00105	0.00224
2,2-Dichloropropane		0.000751	U	0.000751	0.00224
1,1-Dichloropropene		0.000572	U	0.000572	0.00224
Ethylbenzene		0.000751	U	0.000751	0.00224
Hexachlorobutadiene		0.00128	U	0.00128	0.00560
2-Hexanone		0.0187	U	0.0187	0.0560
Iodomethane		0.00751	U	0.00751	0.0224
Isopropylbenzene		0.000460	U	0.000460	0.00224
Methylene bromide		0.000628	U	0.000628	0.00224
Methylene Chloride		0.000964	U	0.000964	0.0112
4-Methyl-2-pentanone (MIBK)		0.00213	U	0.00213	0.0560
Methyl tert butyl ether		0.00108	U	0.00108	0.00224
m,p-Xylene		0.000628	U	0.000628	0.00448
Naphthalene		0.00191	U	0.00191	0.00560
n-Butylbenzene		0.00110	U	0.00110	0.00224
N-Propylbenzene		0.000751	U	0.000751	0.00224
o-Chlorotoluene		0.000998	U	0.000998	0.00224
o-Xylene		0.000751	U	0.000751	0.00224
p-Chlorotoluene		0.000942	U	0.000942	0.00224

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-408

Lab Sample ID: 490-116559-4 Date Sampled: 11/15/2016 0905
Client Matrix: Solid % Moisture: 11.1 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-41.D
Dilution:	1.0			Initial Weight/Volume:	5.017 g
Analysis Date:	11/26/2016 0502			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 0805				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000751	U	0.000751	0.00224
sec-Butylbenzene		0.000751	U	0.000751	0.00224
Styrene		0.00123	U	0.00123	0.00224
tert-Butylbenzene		0.00101	U	0.00101	0.00224
1,1,1,2-Tetrachloroethane		0.000751	U	0.000751	0.00224
1,1,2,2-Tetrachloroethane		0.00112	U	0.00112	0.00224
Tetrachloroethene		0.000818	U	0.000818	0.00224
Toluene		0.000829	U	0.000829	0.00224
trans-1,2-Dichloroethene		0.000751	U	0.000751	0.00224
trans-1,3-Dichloropropene		0.000751	U	0.000751	0.00224
1,2,3-Trichlorobenzene		0.000426	U	0.000426	0.00224
1,2,4-Trichlorobenzene		0.000751	U	0.000751	0.00224
1,1,1-Trichloroethane		0.00103	U	0.00103	0.00224
1,1,2-Trichloroethane		0.00157	U	0.00157	0.00560
Trichloroethene		0.00108	U	0.00108	0.00224
Trichlorofluoromethane		0.00112	U	0.00112	0.00224
1,2,3-Trichloropropane		0.000617	U	0.000617	0.00224
1,2,4-Trimethylbenzene		0.00112	U	0.00112	0.00224
1,3,5-Trimethylbenzene		0.000841	U	0.000841	0.00224
Vinyl chloride		0.00123	U	0.00123	0.00224
Xylenes (total)		0.00138	U	0.00138	0.00673

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-408

Lab Sample ID: 490-116559-4 Date Sampled: 11/15/2016 0905
Client Matrix: Solid % Moisture: 11.1 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-41.D
Dilution:	1.0			Initial Weight/Volume:	5.017 g
Analysis Date:	11/26/2016 0502			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 0805				

Tentatively Identified Compounds **Number TIC's Found: 2**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
67-63-0	Isopropyl alcohol	2.83	0.0526	J
79-20-9	Methyl acetate	2.95	0.134	

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-408

Lab Sample ID: 490-116559-4 Date Sampled: 11/15/2016 0905
Client Matrix: Solid % Moisture: 11.1 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390019	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112816-13.D
Dilution:	1.0			Initial Weight/Volume:	6.201 g
Analysis Date:	11/28/2016 1526			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 0805				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl acetate		0.00399	U *	0.00399	0.0181

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-409

Lab Sample ID: 490-116559-5 Date Sampled: 11/15/2016 0930
Client Matrix: Solid % Moisture: 18.2 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-42.D
Dilution:	1.0			Initial Weight/Volume:	6.439 g
Analysis Date:	11/26/2016 0532			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Benzene		0.000992	J	0.000636	0.00190
Bromobenzene		0.000684	U	0.000684	0.00190
Bromochloromethane		0.000522	U	0.000522	0.00190
Bromodichloromethane		0.000522	U	0.000522	0.00190
Bromoform		0.000522	U	0.000522	0.00190
Bromomethane		0.00114	U	0.00114	0.00190
2-Butanone (MEK)		0.0146	J	0.00484	0.0475
Carbon disulfide		0.00342	U	0.00342	0.00475
Carbon tetrachloride		0.000636	U	0.000636	0.00190
Chlorobenzene		0.000636	U	0.000636	0.00190
Chloroethane		0.00180	U	0.00180	0.00475
Chloroform		0.000636	U	0.000636	0.00190
Chloromethane		0.000636	U	0.000636	0.00190
cis-1,2-Dichloroethene		0.000636	U	0.000636	0.00190
cis-1,3-Dichloropropene		0.000636	U	0.000636	0.00190
Dibromochloromethane		0.000323	U	0.000323	0.00190
1,2-Dibromo-3-chloropropane		0.000665	U	0.000665	0.00475
1,2-Dibromoethane		0.000950	U	0.000950	0.00190
1,2-Dichlorobenzene		0.000323	U	0.000323	0.00190
1,3-Dichlorobenzene		0.000636	U	0.000636	0.00190
1,4-Dichlorobenzene		0.000636	U	0.000636	0.00190
Dichlorodifluoromethane		0.000950	U	0.000950	0.00190
1,1-Dichloroethane		0.000636	U	0.000636	0.00190
1,2-Dichloroethane		0.000636	U	0.000636	0.00190
1,1-Dichloroethene		0.000541	U	0.000541	0.00190
1,2-Dichloropropane		0.000893	U	0.000893	0.00190
1,3-Dichloropropane		0.000893	U	0.000893	0.00190
2,2-Dichloropropane		0.000636	U	0.000636	0.00190
1,1-Dichloropropene		0.000484	U	0.000484	0.00190
Ethylbenzene		0.000715	J	0.000636	0.00190
Hexachlorobutadiene		0.00108	U	0.00108	0.00475
2-Hexanone		0.0159	U	0.0159	0.0475
Iodomethane		0.00636	U	0.00636	0.0190
Isopropylbenzene		0.000389	U	0.000389	0.00190
Methylene bromide		0.000532	U	0.000532	0.00190
Methylene Chloride		0.000817	U	0.000817	0.00950
4-Methyl-2-pentanone (MIBK)		0.00180	U	0.00180	0.0475
Methyl tert butyl ether		0.000912	U	0.000912	0.00190
m,p-Xylene		0.00149	J	0.000532	0.00380
Naphthalene		0.00161	U	0.00161	0.00475
n-Butylbenzene		0.000931	U	0.000931	0.00190
N-Propylbenzene		0.000636	U	0.000636	0.00190
o-Chlorotoluene		0.000845	U	0.000845	0.00190
o-Xylene		0.000636	U	0.000636	0.00190
p-Chlorotoluene		0.000798	U	0.000798	0.00190
p-Isopropyltoluene		0.000636	U	0.000636	0.00190

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-409

Lab Sample ID: 490-116559-5 Date Sampled: 11/15/2016 0930
Client Matrix: Solid % Moisture: 18.2 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-42.D
Dilution:	1.0			Initial Weight/Volume:	6.439 g
Analysis Date:	11/26/2016 0532			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
sec-Butylbenzene		0.000636	U	0.000636	0.00190
Styrene		0.00104	U	0.00104	0.00190
tert-Butylbenzene		0.000855	U	0.000855	0.00190
1,1,1,2-Tetrachloroethane		0.000636	U	0.000636	0.00190
1,1,2,2-Tetrachloroethane		0.000950	U	0.000950	0.00190
Tetrachloroethene		0.000693	U	0.000693	0.00190
Toluene		0.000703	U	0.000703	0.00190
trans-1,2-Dichloroethene		0.000636	U	0.000636	0.00190
trans-1,3-Dichloropropene		0.000636	U	0.000636	0.00190
1,2,3-Trichlorobenzene		0.000361	U	0.000361	0.00190
1,2,4-Trichlorobenzene		0.000636	U	0.000636	0.00190
1,1,1-Trichloroethane		0.000874	U	0.000874	0.00190
1,1,2-Trichloroethane		0.00133	U	0.00133	0.00475
Trichloroethene		0.000912	U	0.000912	0.00190
Trichlorofluoromethane		0.000950	U	0.000950	0.00190
1,2,3-Trichloropropane		0.000522	U	0.000522	0.00190
1,2,4-Trimethylbenzene		0.000950	U	0.000950	0.00190
1,3,5-Trimethylbenzene		0.000712	U	0.000712	0.00190
Vinyl chloride		0.00104	U	0.00104	0.00190
Xylenes (total)		0.00149	J	0.00117	0.00570

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	105		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-409

Lab Sample ID: 490-116559-5 Date Sampled: 11/15/2016 0930
Client Matrix: Solid % Moisture: 18.2 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-42.D
Dilution:	1.0			Initial Weight/Volume:	6.439 g
Analysis Date:	11/26/2016 0532			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 0830				

Tentatively Identified Compounds **Number TIC's Found: 7**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
67-63-0	Isopropyl alcohol	2.83	0.0389	J
79-20-9	Methyl acetate	2.95	0.149	
75-65-0	2-Methyl-2-propanol	3.08	0.0109	J
110-54-3	Hexane	3.36	0.00139	J
110-82-7	Cyclohexane	4.28	0.000734	J
108-87-2	Methylcyclohexane	5.12	0.000705	J
123-86-4	n-Butyl acetate	6.61	0.00717	J

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-409

Lab Sample ID: 490-116559-5 Date Sampled: 11/15/2016 0930
Client Matrix: Solid % Moisture: 18.2 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390019	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112816-14.D
Dilution:	1.0			Initial Weight/Volume:	4.405 g
Analysis Date:	11/28/2016 1557			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.139		0.0117	0.0694
Vinyl acetate		0.00611	U *	0.00611	0.0278

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-302-6-7

Lab Sample ID: 490-116559-6 Date Sampled: 11/15/2016 1335
Client Matrix: Solid % Moisture: 12.9 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-43.D
Dilution:	1.0			Initial Weight/Volume:	6.712 g
Analysis Date:	11/26/2016 0602			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1235				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.345	B	0.00718	0.0428
Benzene		0.00155	J	0.000573	0.00171
Bromobenzene		0.000616	U	0.000616	0.00171
Bromochloromethane		0.000470	U	0.000470	0.00171
Bromodichloromethane		0.000470	U	0.000470	0.00171
Bromoform		0.000470	U	0.000470	0.00171
Bromomethane		0.00115	J	0.00103	0.00171
2-Butanone (MEK)		0.0823		0.00436	0.0428
Carbon disulfide		0.00308	U	0.00308	0.00428
Carbon tetrachloride		0.000573	U	0.000573	0.00171
Chlorobenzene		0.000573	U	0.000573	0.00171
Chloroethane		0.00162	U	0.00162	0.00428
Chloroform		0.000573	U	0.000573	0.00171
Chloromethane		0.000573	U	0.000573	0.00171
cis-1,2-Dichloroethene		0.000573	U	0.000573	0.00171
cis-1,3-Dichloropropene		0.000573	U	0.000573	0.00171
Dibromochloromethane		0.000291	U	0.000291	0.00171
1,2-Dibromo-3-chloropropane		0.000599	U	0.000599	0.00428
1,2-Dibromoethane		0.000855	U	0.000855	0.00171
1,2-Dichlorobenzene		0.000291	U	0.000291	0.00171
1,3-Dichlorobenzene		0.000573	U	0.000573	0.00171
1,4-Dichlorobenzene		0.000573	U	0.000573	0.00171
Dichlorodifluoromethane		0.000855	U	0.000855	0.00171
1,1-Dichloroethane		0.000573	U	0.000573	0.00171
1,2-Dichloroethane		0.000573	U	0.000573	0.00171
1,1-Dichloroethene		0.000487	U	0.000487	0.00171
1,2-Dichloropropane		0.000804	U	0.000804	0.00171
1,3-Dichloropropane		0.000804	U	0.000804	0.00171
2,2-Dichloropropane		0.000573	U	0.000573	0.00171
1,1-Dichloropropene		0.000436	U	0.000436	0.00171
Ethylbenzene		0.000573	U	0.000573	0.00171
Hexachlorobutadiene		0.000975	U	0.000975	0.00428
2-Hexanone		0.0143	U	0.0143	0.0428
Iodomethane		0.00573	U	0.00573	0.0171
Isopropylbenzene		0.000351	U	0.000351	0.00171
Methylene bromide		0.000479	U	0.000479	0.00171
Methylene Chloride		0.000735	U	0.000735	0.00855
4-Methyl-2-pentanone (MIBK)		0.00162	U	0.00162	0.0428
Methyl tert butyl ether		0.000821	U	0.000821	0.00171
m,p-Xylene		0.000479	U	0.000479	0.00342
Naphthalene		0.00145	U	0.00145	0.00428
n-Butylbenzene		0.000838	U	0.000838	0.00171
N-Propylbenzene		0.000573	U	0.000573	0.00171
o-Chlorotoluene		0.000761	U	0.000761	0.00171
o-Xylene		0.000573	U	0.000573	0.00171
p-Chlorotoluene		0.000718	U	0.000718	0.00171

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-302-6-7

Lab Sample ID: 490-116559-6 Date Sampled: 11/15/2016 1335
Client Matrix: Solid % Moisture: 12.9 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-43.D
Dilution:	1.0			Initial Weight/Volume:	6.712 g
Analysis Date:	11/26/2016 0602			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1235				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000573	U	0.000573	0.00171
sec-Butylbenzene		0.000573	U	0.000573	0.00171
Styrene		0.000941	U	0.000941	0.00171
tert-Butylbenzene		0.000770	U	0.000770	0.00171
1,1,1,2-Tetrachloroethane		0.000573	U	0.000573	0.00171
1,1,2,2-Tetrachloroethane		0.000855	U	0.000855	0.00171
Tetrachloroethene		0.000624	U	0.000624	0.00171
Toluene		0.000633	U	0.000633	0.00171
trans-1,2-Dichloroethene		0.000573	U	0.000573	0.00171
trans-1,3-Dichloropropene		0.000573	U	0.000573	0.00171
1,2,3-Trichlorobenzene		0.000325	U	0.000325	0.00171
1,2,4-Trichlorobenzene		0.000573	U	0.000573	0.00171
1,1,1-Trichloroethane		0.000787	U	0.000787	0.00171
1,1,2-Trichloroethane		0.00120	U	0.00120	0.00428
Trichloroethene		0.000821	U	0.000821	0.00171
Trichlorofluoromethane		0.000855	U	0.000855	0.00171
1,2,3-Trichloropropane		0.000470	U	0.000470	0.00171
1,2,4-Trimethylbenzene		0.000855	U	0.000855	0.00171
1,3,5-Trimethylbenzene		0.000641	U	0.000641	0.00171
Vinyl chloride		0.000941	U	0.000941	0.00171
Xylenes (total)		0.00105	U	0.00105	0.00513

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130
1,2-Dichloroethane-d4 (Surr)	107		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-302-6-7

Lab Sample ID: 490-116559-6 Date Sampled: 11/15/2016 1335
Client Matrix: Solid % Moisture: 12.9 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-43.D
Dilution:	1.0			Initial Weight/Volume:	6.712 g
Analysis Date:	11/26/2016 0602			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1235				

Tentatively Identified Compounds **Number TIC's Found: 8**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
75-07-0	Acetaldehyde	1.95	0.213	J N
67-63-0	Isopropyl alcohol	2.82	0.0361	J
79-20-9	Methyl acetate	2.95	0.00476	J
75-65-0	2-Methyl-2-propanol	3.09	0.00979	J
110-54-3	Hexane	3.37	0.00200	J
123-72-8	Butanal	3.77	0.126	J N
142-82-5	n-Heptane	4.65	0.00133	J
590-86-3	Butanal, 3-methyl-	5.18	0.675	J N

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-302-6-7

Lab Sample ID: 490-116559-6 Date Sampled: 11/15/2016 1335
Client Matrix: Solid % Moisture: 12.9 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390019	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112816-15.D
Dilution:	1.0			Initial Weight/Volume:	7.053 g
Analysis Date:	11/28/2016 1627			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1235				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl acetate		0.00358	U *	0.00358	0.0163

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-303-6-7

Lab Sample ID: 490-116559-7 Date Sampled: 11/15/2016 1430
Client Matrix: Solid % Moisture: 22.5 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-44.D
Dilution:	1.0			Initial Weight/Volume:	6.284 g
Analysis Date:	11/26/2016 0632			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1330				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.407	B	0.00862	0.0513
Benzene		0.00263		0.000687	0.00205
Bromobenzene		0.000739	U	0.000739	0.00205
Bromochloromethane		0.000564	U	0.000564	0.00205
Bromodichloromethane		0.000564	U	0.000564	0.00205
Bromoform		0.000564	U	0.000564	0.00205
Bromomethane		0.00123	U	0.00123	0.00205
2-Butanone (MEK)		0.0812		0.00523	0.0513
Carbon disulfide		0.00369	U	0.00369	0.00513
Carbon tetrachloride		0.000687	U	0.000687	0.00205
Chlorobenzene		0.000687	U	0.000687	0.00205
Chloroethane		0.00195	U	0.00195	0.00513
Chloroform		0.000687	U	0.000687	0.00205
Chloromethane		0.000687	U	0.000687	0.00205
cis-1,2-Dichloroethene		0.000687	U	0.000687	0.00205
cis-1,3-Dichloropropene		0.000687	U	0.000687	0.00205
Dibromochloromethane		0.000349	U	0.000349	0.00205
1,2-Dibromo-3-chloropropane		0.000718	U	0.000718	0.00513
1,2-Dibromoethane		0.00103	U	0.00103	0.00205
1,2-Dichlorobenzene		0.000349	U	0.000349	0.00205
1,3-Dichlorobenzene		0.000687	U	0.000687	0.00205
1,4-Dichlorobenzene		0.000687	U	0.000687	0.00205
Dichlorodifluoromethane		0.00103	U	0.00103	0.00205
1,1-Dichloroethane		0.000687	U	0.000687	0.00205
1,2-Dichloroethane		0.000687	U	0.000687	0.00205
1,1-Dichloroethene		0.000585	U	0.000585	0.00205
1,2-Dichloropropane		0.000964	U	0.000964	0.00205
1,3-Dichloropropane		0.000964	U	0.000964	0.00205
2,2-Dichloropropane		0.000687	U	0.000687	0.00205
1,1-Dichloropropene		0.000523	U	0.000523	0.00205
Ethylbenzene		0.000687	U	0.000687	0.00205
Hexachlorobutadiene		0.00117	U	0.00117	0.00513
2-Hexanone		0.0171	U	0.0171	0.0513
Iodomethane		0.00687	U	0.00687	0.0205
Isopropylbenzene		0.000421	U	0.000421	0.00205
Methylene bromide		0.000575	U	0.000575	0.00205
Methylene Chloride		0.000882	U	0.000882	0.0103
4-Methyl-2-pentanone (MIBK)		0.00195	U	0.00195	0.0513
Methyl tert butyl ether		0.000985	U	0.000985	0.00205
m,p-Xylene		0.000979	J	0.000575	0.00410
Naphthalene		0.00174	U	0.00174	0.00513
n-Butylbenzene		0.00101	U	0.00101	0.00205
N-Propylbenzene		0.000687	U	0.000687	0.00205
o-Chlorotoluene		0.000913	U	0.000913	0.00205
o-Xylene		0.000777	J	0.000687	0.00205
p-Chlorotoluene		0.000862	U	0.000862	0.00205

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-303-6-7

Lab Sample ID: 490-116559-7 Date Sampled: 11/15/2016 1430
Client Matrix: Solid % Moisture: 22.5 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-44.D
Dilution:	1.0			Initial Weight/Volume:	6.284 g
Analysis Date:	11/26/2016 0632			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1330				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000687	U	0.000687	0.00205
sec-Butylbenzene		0.000687	U	0.000687	0.00205
Styrene		0.00113	U	0.00113	0.00205
tert-Butylbenzene		0.000923	U	0.000923	0.00205
1,1,1,2-Tetrachloroethane		0.000687	U	0.000687	0.00205
1,1,2,2-Tetrachloroethane		0.00103	U	0.00103	0.00205
Tetrachloroethene		0.000749	U	0.000749	0.00205
Toluene		0.00152	J	0.000759	0.00205
trans-1,2-Dichloroethene		0.000687	U	0.000687	0.00205
trans-1,3-Dichloropropene		0.000687	U	0.000687	0.00205
1,2,3-Trichlorobenzene		0.000390	U	0.000390	0.00205
1,2,4-Trichlorobenzene		0.000687	U	0.000687	0.00205
1,1,1-Trichloroethane		0.000944	U	0.000944	0.00205
1,1,2-Trichloroethane		0.00144	U	0.00144	0.00513
Trichloroethene		0.000985	U	0.000985	0.00205
Trichlorofluoromethane		0.00103	U	0.00103	0.00205
1,2,3-Trichloropropane		0.000564	U	0.000564	0.00205
1,2,4-Trimethylbenzene		0.00103	U	0.00103	0.00205
1,3,5-Trimethylbenzene		0.000770	U	0.000770	0.00205
Vinyl chloride		0.00113	U	0.00113	0.00205
Xylenes (total)		0.00176	J	0.00126	0.00616

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-303-6-7

Lab Sample ID: 490-116559-7 Date Sampled: 11/15/2016 1430
Client Matrix: Solid % Moisture: 22.5 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-44.D
Dilution:	1.0			Initial Weight/Volume:	6.284 g
Analysis Date:	11/26/2016 0632			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1330				

Tentatively Identified Compounds **Number TIC's Found: 8**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
75-07-0	Acetaldehyde	1.95	0.221	J N
67-63-0	Isopropyl alcohol	2.82	0.0401	J
75-65-0	2-Methyl-2-propanol	3.09	0.0134	J
110-54-3	Hexane	3.37	0.00519	J
123-72-8	Butanal	3.77	0.132	J N
110-82-7	Cyclohexane	4.29	0.00162	J
142-82-5	n-Heptane	4.65	0.00251	J
79-46-9	2-Nitropropane	5.55	0.00607	J

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-303-6-7

Lab Sample ID: 490-116559-7 Date Sampled: 11/15/2016 1430
Client Matrix: Solid % Moisture: 22.5 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390019	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112816-16.D
Dilution:	1.0			Initial Weight/Volume:	7.894 g
Analysis Date:	11/28/2016 1658			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1330				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl acetate		0.00359	U *	0.00359	0.0163

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-304-6-7

Lab Sample ID: 490-116559-8 Date Sampled: 11/16/2016 0900
Client Matrix: Solid % Moisture: 15.9 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-45.D
Dilution:	1.0			Initial Weight/Volume:	6.314 g
Analysis Date:	11/26/2016 0702			Final Weight/Volume:	5.0 mL
Prep Date:	11/16/2016 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Benzene		0.000631	U	0.000631	0.00188
Bromobenzene		0.000678	U	0.000678	0.00188
Bromochloromethane		0.000518	U	0.000518	0.00188
Bromodichloromethane		0.000518	U	0.000518	0.00188
Bromoform		0.000518	U	0.000518	0.00188
Bromomethane		0.00113	U	0.00113	0.00188
2-Butanone (MEK)		0.0242	J	0.00480	0.0471
Carbon disulfide		0.00339	U	0.00339	0.00471
Carbon tetrachloride		0.000631	U	0.000631	0.00188
Chlorobenzene		0.000631	U	0.000631	0.00188
Chloroethane		0.00179	U	0.00179	0.00471
Chloroform		0.000631	U	0.000631	0.00188
Chloromethane		0.000631	U	0.000631	0.00188
cis-1,2-Dichloroethene		0.000631	U	0.000631	0.00188
cis-1,3-Dichloropropene		0.000631	U	0.000631	0.00188
Dibromochloromethane		0.000320	U	0.000320	0.00188
1,2-Dibromo-3-chloropropane		0.000659	U	0.000659	0.00471
1,2-Dibromoethane		0.000942	U	0.000942	0.00188
1,2-Dichlorobenzene		0.000320	U	0.000320	0.00188
1,3-Dichlorobenzene		0.000631	U	0.000631	0.00188
1,4-Dichlorobenzene		0.000631	U	0.000631	0.00188
Dichlorodifluoromethane		0.000942	U	0.000942	0.00188
1,1-Dichloroethane		0.000631	U	0.000631	0.00188
1,2-Dichloroethane		0.000631	U	0.000631	0.00188
1,1-Dichloroethene		0.000537	U	0.000537	0.00188
1,2-Dichloropropane		0.000885	U	0.000885	0.00188
1,3-Dichloropropane		0.000885	U	0.000885	0.00188
2,2-Dichloropropane		0.000631	U	0.000631	0.00188
1,1-Dichloropropene		0.000480	U	0.000480	0.00188
Ethylbenzene		0.000631	U	0.000631	0.00188
Hexachlorobutadiene		0.00107	U	0.00107	0.00471
2-Hexanone		0.0157	U	0.0157	0.0471
Iodomethane		0.00631	U	0.00631	0.0188
Isopropylbenzene		0.000386	U	0.000386	0.00188
Methylene bromide		0.000527	U	0.000527	0.00188
Methylene Chloride		0.000810	U	0.000810	0.00942
4-Methyl-2-pentanone (MIBK)		0.00179	U	0.00179	0.0471
Methyl tert butyl ether		0.000904	U	0.000904	0.00188
m,p-Xylene		0.000527	U	0.000527	0.00377
Naphthalene		0.00160	U	0.00160	0.00471
n-Butylbenzene		0.000923	U	0.000923	0.00188
N-Propylbenzene		0.000631	U	0.000631	0.00188
o-Chlorotoluene		0.000838	U	0.000838	0.00188
o-Xylene		0.000631	U	0.000631	0.00188
p-Chlorotoluene		0.000791	U	0.000791	0.00188
p-Isopropyltoluene		0.000631	U	0.000631	0.00188

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-304-6-7

Lab Sample ID: 490-116559-8 Date Sampled: 11/16/2016 0900
Client Matrix: Solid % Moisture: 15.9 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-45.D
Dilution:	1.0			Initial Weight/Volume:	6.314 g
Analysis Date:	11/26/2016 0702			Final Weight/Volume:	5.0 mL
Prep Date:	11/16/2016 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
sec-Butylbenzene		0.000631	U	0.000631	0.00188
Styrene		0.00104	U	0.00104	0.00188
tert-Butylbenzene		0.000847	U	0.000847	0.00188
1,1,1,2-Tetrachloroethane		0.000631	U	0.000631	0.00188
1,1,2,2-Tetrachloroethane		0.000942	U	0.000942	0.00188
Tetrachloroethene		0.000687	U	0.000687	0.00188
Toluene		0.000697	U	0.000697	0.00188
trans-1,2-Dichloroethene		0.000631	U	0.000631	0.00188
trans-1,3-Dichloropropene		0.000631	U	0.000631	0.00188
1,2,3-Trichlorobenzene		0.000358	U	0.000358	0.00188
1,2,4-Trichlorobenzene		0.000631	U	0.000631	0.00188
1,1,1-Trichloroethane		0.000866	U	0.000866	0.00188
1,1,2-Trichloroethane		0.00132	U	0.00132	0.00471
Trichloroethene		0.000904	U	0.000904	0.00188
Trichlorofluoromethane		0.000942	U	0.000942	0.00188
1,2,3-Trichloropropane		0.000518	U	0.000518	0.00188
1,2,4-Trimethylbenzene		0.000942	U	0.000942	0.00188
1,3,5-Trimethylbenzene		0.000706	U	0.000706	0.00188
Vinyl chloride		0.00104	U	0.00104	0.00188
Xylenes (total)		0.00116	U	0.00116	0.00565

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-304-6-7

Lab Sample ID: 490-116559-8 Date Sampled: 11/16/2016 0900
Client Matrix: Solid % Moisture: 15.9 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-45.D
Dilution:	1.0			Initial Weight/Volume:	6.314 g
Analysis Date:	11/26/2016 0702			Final Weight/Volume:	5.0 mL
Prep Date:	11/16/2016 0800				

Tentatively Identified Compounds **Number TIC's Found: 2**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
67-63-0	Isopropyl alcohol	2.82	0.0347	J
110-62-3	Pentanal	5.18	0.233	J N

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-304-6-7

Lab Sample ID: 490-116559-8 Date Sampled: 11/16/2016 0900
Client Matrix: Solid % Moisture: 15.9 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390019	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112816-17.D
Dilution:	1.0			Initial Weight/Volume:	6.474 g
Analysis Date:	11/28/2016 1728			Final Weight/Volume:	5.0 mL
Prep Date:	11/16/2016 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.170		0.00771	0.0459
Vinyl acetate		0.00404	U *	0.00404	0.0184

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	125	*	70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
Toluene-d8 (Surr)	107		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-305-6-7

Lab Sample ID: 490-116559-9 Date Sampled: 11/16/2016 1030
Client Matrix: Solid % Moisture: 19.6 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-46.D
Dilution:	1.0			Initial Weight/Volume:	5.922 g
Analysis Date:	11/26/2016 0732			Final Weight/Volume:	5.0 mL
Prep Date:	11/16/2016 0930				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Benzene		0.000703	U	0.000703	0.00210
Bromobenzene		0.000756	U	0.000756	0.00210
Bromochloromethane		0.000577	U	0.000577	0.00210
Bromodichloromethane		0.000577	U	0.000577	0.00210
Bromoform		0.000577	U	0.000577	0.00210
Bromomethane		0.00126	U	0.00126	0.00210
2-Butanone (MEK)		0.0165	J	0.00535	0.0525
Carbon disulfide		0.00378	U	0.00378	0.00525
Carbon tetrachloride		0.000703	U	0.000703	0.00210
Chlorobenzene		0.000703	U	0.000703	0.00210
Chloroethane		0.00199	U	0.00199	0.00525
Chloroform		0.000703	U	0.000703	0.00210
Chloromethane		0.000703	U	0.000703	0.00210
cis-1,2-Dichloroethene		0.000703	U	0.000703	0.00210
cis-1,3-Dichloropropene		0.000703	U	0.000703	0.00210
Dibromochloromethane		0.000357	U	0.000357	0.00210
1,2-Dibromo-3-chloropropane		0.000735	U	0.000735	0.00525
1,2-Dibromoethane		0.00105	U	0.00105	0.00210
1,2-Dichlorobenzene		0.000357	U	0.000357	0.00210
1,3-Dichlorobenzene		0.000703	U	0.000703	0.00210
1,4-Dichlorobenzene		0.000703	U	0.000703	0.00210
Dichlorodifluoromethane		0.00105	U	0.00105	0.00210
1,1-Dichloroethane		0.000703	U	0.000703	0.00210
1,2-Dichloroethane		0.000703	U	0.000703	0.00210
1,1-Dichloroethene		0.000598	U	0.000598	0.00210
1,2-Dichloropropane		0.000987	U	0.000987	0.00210
1,3-Dichloropropane		0.000987	U	0.000987	0.00210
2,2-Dichloropropane		0.000703	U	0.000703	0.00210
1,1-Dichloropropene		0.000535	U	0.000535	0.00210
Ethylbenzene		0.000703	U	0.000703	0.00210
Hexachlorobutadiene		0.00120	U	0.00120	0.00525
2-Hexanone		0.0175	U	0.0175	0.0525
Iodomethane		0.00703	U	0.00703	0.0210
Isopropylbenzene		0.000430	U	0.000430	0.00210
Methylene bromide		0.000588	U	0.000588	0.00210
Methylene Chloride		0.000903	U	0.000903	0.0105
4-Methyl-2-pentanone (MIBK)		0.00199	U	0.00199	0.0525
Methyl tert butyl ether		0.00101	U	0.00101	0.00210
m,p-Xylene		0.000838	J	0.000588	0.00420
Naphthalene		0.00178	U	0.00178	0.00525
n-Butylbenzene		0.00103	U	0.00103	0.00210
N-Propylbenzene		0.000703	U	0.000703	0.00210
o-Chlorotoluene		0.000934	U	0.000934	0.00210
o-Xylene		0.000703	U	0.000703	0.00210
p-Chlorotoluene		0.000882	U	0.000882	0.00210
p-Isopropyltoluene		0.000703	U	0.000703	0.00210

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-305-6-7

Lab Sample ID: 490-116559-9 Date Sampled: 11/16/2016 1030
Client Matrix: Solid % Moisture: 19.6 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-46.D
Dilution:	1.0			Initial Weight/Volume:	5.922 g
Analysis Date:	11/26/2016 0732			Final Weight/Volume:	5.0 mL
Prep Date:	11/16/2016 0930				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
sec-Butylbenzene		0.000703	U	0.000703	0.00210
Styrene		0.00115	U	0.00115	0.00210
tert-Butylbenzene		0.000945	U	0.000945	0.00210
1,1,1,2-Tetrachloroethane		0.000703	U	0.000703	0.00210
1,1,2,2-Tetrachloroethane		0.00105	U	0.00105	0.00210
Tetrachloroethene		0.000766	U	0.000766	0.00210
Toluene		0.000777	U	0.000777	0.00210
trans-1,2-Dichloroethene		0.000703	U	0.000703	0.00210
trans-1,3-Dichloropropene		0.000703	U	0.000703	0.00210
1,2,3-Trichlorobenzene		0.000399	U	0.000399	0.00210
1,2,4-Trichlorobenzene		0.000703	U	0.000703	0.00210
1,1,1-Trichloroethane		0.000966	U	0.000966	0.00210
1,1,2-Trichloroethane		0.00147	U	0.00147	0.00525
Trichloroethene		0.00101	U	0.00101	0.00210
Trichlorofluoromethane		0.00105	U	0.00105	0.00210
1,2,3-Trichloropropane		0.000577	U	0.000577	0.00210
1,2,4-Trimethylbenzene		0.00105	U	0.00105	0.00210
1,3,5-Trimethylbenzene		0.000787	U	0.000787	0.00210
Vinyl chloride		0.00115	U	0.00115	0.00210
Xylenes (total)		0.00129	U	0.00129	0.00630

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-305-6-7

Lab Sample ID: 490-116559-9 Date Sampled: 11/16/2016 1030
Client Matrix: Solid % Moisture: 19.6 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-46.D
Dilution:	1.0			Initial Weight/Volume:	5.922 g
Analysis Date:	11/26/2016 0732			Final Weight/Volume:	5.0 mL
Prep Date:	11/16/2016 0930				

Tentatively Identified Compounds **Number TIC's Found: 3**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
67-63-0	Isopropyl alcohol	2.83	0.0482	J
79-20-9	Methyl acetate	2.95	0.00883	J
110-62-3	Pentanal	5.18	0.169	J N

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-305-6-7

Lab Sample ID: 490-116559-9 Date Sampled: 11/16/2016 1030
Client Matrix: Solid % Moisture: 19.6 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390019	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112816-18.D
Dilution:	1.0			Initial Weight/Volume:	6.794 g
Analysis Date:	11/28/2016 1758			Final Weight/Volume:	5.0 mL
Prep Date:	11/16/2016 0930				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.103		0.00769	0.0458
Vinyl acetate		0.00403	U *	0.00403	0.0183

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	146	*	70 - 130
Dibromofluoromethane (Surr)	110		70 - 130
1,2-Dichloroethane-d4 (Surr)	112		70 - 130
Toluene-d8 (Surr)	119	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-306-6-7

Lab Sample ID: 490-116559-10 Date Sampled: 11/16/2016 1000
Client Matrix: Solid % Moisture: 19.4 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-47.D
Dilution:	1.0			Initial Weight/Volume:	5.431 g
Analysis Date:	11/26/2016 0802			Final Weight/Volume:	5.0 mL
Prep Date:	11/16/2016 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0554	J B	0.00959	0.0571
Benzene		0.000765	U	0.000765	0.00228
Bromobenzene		0.000822	U	0.000822	0.00228
Bromochloromethane		0.000628	U	0.000628	0.00228
Bromodichloromethane		0.000628	U	0.000628	0.00228
Bromoform		0.000628	U	0.000628	0.00228
Bromomethane		0.00137	U	0.00137	0.00228
2-Butanone (MEK)		0.00582	U	0.00582	0.0571
Carbon disulfide		0.00411	U	0.00411	0.00571
Carbon tetrachloride		0.000765	U	0.000765	0.00228
Chlorobenzene		0.000765	U	0.000765	0.00228
Chloroethane		0.00217	U	0.00217	0.00571
Chloroform		0.000765	U	0.000765	0.00228
Chloromethane		0.000765	U	0.000765	0.00228
cis-1,2-Dichloroethene		0.000765	U	0.000765	0.00228
cis-1,3-Dichloropropene		0.000765	U	0.000765	0.00228
Dibromochloromethane		0.000388	U	0.000388	0.00228
1,2-Dibromo-3-chloropropane		0.000799	U	0.000799	0.00571
1,2-Dibromoethane		0.00114	U	0.00114	0.00228
1,2-Dichlorobenzene		0.000388	U	0.000388	0.00228
1,3-Dichlorobenzene		0.000765	U	0.000765	0.00228
1,4-Dichlorobenzene		0.000765	U	0.000765	0.00228
Dichlorodifluoromethane		0.00114	U	0.00114	0.00228
1,1-Dichloroethane		0.000765	U	0.000765	0.00228
1,2-Dichloroethane		0.000765	U	0.000765	0.00228
1,1-Dichloroethene		0.000651	U	0.000651	0.00228
1,2-Dichloropropane		0.00107	U	0.00107	0.00228
1,3-Dichloropropane		0.00107	U	0.00107	0.00228
2,2-Dichloropropane		0.000765	U	0.000765	0.00228
1,1-Dichloropropene		0.000582	U	0.000582	0.00228
Ethylbenzene		0.000993	J	0.000765	0.00228
Hexachlorobutadiene		0.00130	U	0.00130	0.00571
2-Hexanone		0.0191	U	0.0191	0.0571
Iodomethane		0.00765	U	0.00765	0.0228
Isopropylbenzene		0.000468	U	0.000468	0.00228
Methylene bromide		0.000639	U	0.000639	0.00228
Methylene Chloride		0.000982	U	0.000982	0.0114
4-Methyl-2-pentanone (MIBK)		0.00217	U	0.00217	0.0571
Methyl tert butyl ether		0.00110	U	0.00110	0.00228
m,p-Xylene		0.00171	J	0.000639	0.00457
Naphthalene		0.00194	U	0.00194	0.00571
n-Butylbenzene		0.00112	U	0.00112	0.00228
N-Propylbenzene		0.000765	U	0.000765	0.00228
o-Chlorotoluene		0.00102	U	0.00102	0.00228
o-Xylene		0.00122	J	0.000765	0.00228
p-Chlorotoluene		0.000959	U	0.000959	0.00228

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-306-6-7

Lab Sample ID: 490-116559-10 Date Sampled: 11/16/2016 1000
Client Matrix: Solid % Moisture: 19.4 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-47.D
Dilution:	1.0			Initial Weight/Volume:	5.431 g
Analysis Date:	11/26/2016 0802			Final Weight/Volume:	5.0 mL
Prep Date:	11/16/2016 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000765	U	0.000765	0.00228
sec-Butylbenzene		0.000765	U	0.000765	0.00228
Styrene		0.00126	U	0.00126	0.00228
tert-Butylbenzene		0.00103	U	0.00103	0.00228
1,1,1,2-Tetrachloroethane		0.000765	U	0.000765	0.00228
1,1,2,2-Tetrachloroethane		0.00114	U	0.00114	0.00228
Tetrachloroethene		0.000833	U	0.000833	0.00228
Toluene		0.000845	U	0.000845	0.00228
trans-1,2-Dichloroethene		0.000765	U	0.000765	0.00228
trans-1,3-Dichloropropene		0.000765	U	0.000765	0.00228
1,2,3-Trichlorobenzene		0.000434	U	0.000434	0.00228
1,2,4-Trichlorobenzene		0.000765	U	0.000765	0.00228
1,1,1-Trichloroethane		0.00105	U	0.00105	0.00228
1,1,2-Trichloroethane		0.00160	U	0.00160	0.00571
Trichloroethene		0.00110	U	0.00110	0.00228
Trichlorofluoromethane		0.00114	U	0.00114	0.00228
1,2,3-Trichloropropane		0.000628	U	0.000628	0.00228
1,2,4-Trimethylbenzene		0.00114	U	0.00114	0.00228
1,3,5-Trimethylbenzene		0.000856	U	0.000856	0.00228
Vinyl chloride		0.00126	U	0.00126	0.00228
Xylenes (total)		0.00293	J	0.00140	0.00685

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-306-6-7

Lab Sample ID: 490-116559-10 Date Sampled: 11/16/2016 1000
Client Matrix: Solid % Moisture: 19.4 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-47.D
Dilution:	1.0			Initial Weight/Volume:	5.431 g
Analysis Date:	11/26/2016 0802			Final Weight/Volume:	5.0 mL
Prep Date:	11/16/2016 0900				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
67-63-0	Isopropyl alcohol	2.82	0.0379	J
108-08-7	Pentane, 2,4-dimethyl-	3.73	0.118	J N
4516-69-2	Cyclopentane, 1,1,3-trimethyl-	5.08	5.50	J N
16883-48-0	Cyclopentane, 1,2,4-trimethyl-, (1.alpha.,2.beta.,4.alpha.)-	5.30	3.14	J N
	Unknown	5.56	0.490	J
590-66-9	Cyclohexane, 1,1-dimethyl-	6.04	3.49	J N
493-02-7	Naphthalene, decahydro-, trans-	9.77	0.0440	J N
2958-76-1	Naphthalene, decahydro-2-methyl-	10.52	0.0461	J N
26730-14-3	Tridecane, 7-methyl-	11.90	0.0697	J N
638-36-8	Hexadecane, 2,6,10,14-tetramethyl-	12.89	0.0545	J N

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-306-6-7

Lab Sample ID: 490-116559-10 Date Sampled: 11/16/2016 1000
Client Matrix: Solid % Moisture: 19.4 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390019	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112816-19.D
Dilution:	1.0			Initial Weight/Volume:	5.86 g
Analysis Date:	11/28/2016 1829			Final Weight/Volume:	5.0 mL
Prep Date:	11/16/2016 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl acetate		0.00466	U *	0.00466	0.0212

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	150	*	70 - 130
Dibromofluoromethane (Surr)	113		70 - 130
1,2-Dichloroethane-d4 (Surr)	114		70 - 130
Toluene-d8 (Surr)	120	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-307-6-7

Lab Sample ID: 490-116559-11 Date Sampled: 11/17/2016 1030
Client Matrix: Solid % Moisture: 24.0 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-48.D
Dilution:	1.0			Initial Weight/Volume:	5.074 g
Analysis Date:	11/26/2016 0831			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0930				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Benzene		0.000869	U	0.000869	0.00259
Bromobenzene		0.000934	U	0.000934	0.00259
Bromochloromethane		0.000713	U	0.000713	0.00259
Bromodichloromethane		0.000713	U	0.000713	0.00259
Bromoform		0.000713	U	0.000713	0.00259
Bromomethane		0.00156	U	0.00156	0.00259
2-Butanone (MEK)		0.0166	J	0.00661	0.0648
Carbon disulfide		0.00467	U	0.00467	0.00648
Carbon tetrachloride		0.000869	U	0.000869	0.00259
Chlorobenzene		0.000869	U	0.000869	0.00259
Chloroethane		0.00246	U	0.00246	0.00648
Chloroform		0.000869	U	0.000869	0.00259
Chloromethane		0.000869	U	0.000869	0.00259
cis-1,2-Dichloroethene		0.000869	U	0.000869	0.00259
cis-1,3-Dichloropropene		0.000869	U	0.000869	0.00259
Dibromochloromethane		0.000441	U	0.000441	0.00259
1,2-Dibromo-3-chloropropane		0.000908	U	0.000908	0.00648
1,2-Dibromoethane		0.00130	U	0.00130	0.00259
1,2-Dichlorobenzene		0.000441	U	0.000441	0.00259
1,3-Dichlorobenzene		0.000869	U	0.000869	0.00259
1,4-Dichlorobenzene		0.000869	U	0.000869	0.00259
Dichlorodifluoromethane		0.00130	U	0.00130	0.00259
1,1-Dichloroethane		0.000869	U	0.000869	0.00259
1,2-Dichloroethane		0.000869	U	0.000869	0.00259
1,1-Dichloroethene		0.000739	U	0.000739	0.00259
1,2-Dichloropropane		0.00122	U	0.00122	0.00259
1,3-Dichloropropane		0.00122	U	0.00122	0.00259
2,2-Dichloropropane		0.000869	U	0.000869	0.00259
1,1-Dichloropropene		0.000661	U	0.000661	0.00259
Ethylbenzene		0.000869	U	0.000869	0.00259
Hexachlorobutadiene		0.00148	U	0.00148	0.00648
2-Hexanone		0.0217	U	0.0217	0.0648
Iodomethane		0.00869	U	0.00869	0.0259
Isopropylbenzene		0.000532	U	0.000532	0.00259
Methylene bromide		0.000726	U	0.000726	0.00259
Methylene Chloride		0.00112	U	0.00112	0.0130
4-Methyl-2-pentanone (MIBK)		0.00246	U	0.00246	0.0648
Methyl tert butyl ether		0.00124	U	0.00124	0.00259
m,p-Xylene		0.000726	U	0.000726	0.00519
Naphthalene		0.00220	U	0.00220	0.00648
n-Butylbenzene		0.00127	U	0.00127	0.00259
N-Propylbenzene		0.000869	U	0.000869	0.00259
o-Chlorotoluene		0.00115	U	0.00115	0.00259
o-Xylene		0.000869	U	0.000869	0.00259
p-Chlorotoluene		0.00109	U	0.00109	0.00259
p-Isopropyltoluene		0.000869	U	0.000869	0.00259

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-307-6-7

Lab Sample ID: 490-116559-11 Date Sampled: 11/17/2016 1030
Client Matrix: Solid % Moisture: 24.0 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-48.D
Dilution:	1.0			Initial Weight/Volume:	5.074 g
Analysis Date:	11/26/2016 0831			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0930				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
sec-Butylbenzene		0.000869	U	0.000869	0.00259
Styrene		0.00143	U	0.00143	0.00259
tert-Butylbenzene		0.00117	U	0.00117	0.00259
1,1,1,2-Tetrachloroethane		0.000869	U	0.000869	0.00259
1,1,2,2-Tetrachloroethane		0.00130	U	0.00130	0.00259
Tetrachloroethene		0.000947	U	0.000947	0.00259
Toluene		0.000960	U	0.000960	0.00259
trans-1,2-Dichloroethene		0.000869	U	0.000869	0.00259
trans-1,3-Dichloropropene		0.000869	U	0.000869	0.00259
1,2,3-Trichlorobenzene		0.000493	U	0.000493	0.00259
1,2,4-Trichlorobenzene		0.000869	U	0.000869	0.00259
1,1,1-Trichloroethane		0.00119	U	0.00119	0.00259
1,1,2-Trichloroethane		0.00182	U	0.00182	0.00648
Trichloroethene		0.00124	U	0.00124	0.00259
Trichlorofluoromethane		0.00130	U	0.00130	0.00259
1,2,3-Trichloropropane		0.000713	U	0.000713	0.00259
1,2,4-Trimethylbenzene		0.00130	U	0.00130	0.00259
1,3,5-Trimethylbenzene		0.000973	U	0.000973	0.00259
Vinyl chloride		0.00143	U	0.00143	0.00259
Xylenes (total)		0.00160	U	0.00160	0.00778

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
Dibromofluoromethane (Surr)	110		70 - 130
1,2-Dichloroethane-d4 (Surr)	107		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-307-6-7

Lab Sample ID: 490-116559-11 Date Sampled: 11/17/2016 1030
Client Matrix: Solid % Moisture: 24.0 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389677	Instrument ID:	HP87
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-48.D
Dilution:	1.0			Initial Weight/Volume:	5.074 g
Analysis Date:	11/26/2016 0831			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0930				

Tentatively Identified Compounds **Number TIC's Found: 4**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
2958-76-1	Naphthalene, decahydro-2-methyl-	10.52	0.146	J N
1000152-47-3	trans-Decalin, 2-methyl-	10.77	0.110	J N
15869-94-0	Octane, 3,6-dimethyl-	11.91	0.290	J N
3891-98-3	Dodecane, 2,6,10-trimethyl-	12.90	0.147	J N

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-307-6-7

Lab Sample ID: 490-116559-11 Date Sampled: 11/17/2016 1030
Client Matrix: Solid % Moisture: 24.0 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390019	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112816-20.D
Dilution:	1.0			Initial Weight/Volume:	4.961 g
Analysis Date:	11/28/2016 1859			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0930				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.155		0.0111	0.0663
Vinyl acetate		0.00584	U *	0.00584	0.0265

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	134	*	70 - 130
Dibromofluoromethane (Surr)	118		70 - 130
1,2-Dichloroethane-d4 (Surr)	128		70 - 130
Toluene-d8 (Surr)	118	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-308-6-7

Lab Sample ID: 490-116560-1 Date Sampled: 11/17/2016 1100
Client Matrix: Solid % Moisture: 20.9 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389824	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112616-17.D
Dilution:	1.0			Initial Weight/Volume:	6.612 g
Analysis Date:	11/26/2016 1824			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0298	J	0.00803	0.0478
Benzene		0.000640	U	0.000640	0.00191
Bromobenzene		0.000688	U	0.000688	0.00191
Bromochloromethane		0.000526	U	0.000526	0.00191
Bromodichloromethane		0.000526	U	0.000526	0.00191
Bromoform		0.000526	U	0.000526	0.00191
Bromomethane		0.00115	U	0.00115	0.00191
2-Butanone (MEK)		0.00488	U	0.00488	0.0478
Carbon disulfide		0.00344	U	0.00344	0.00478
Carbon tetrachloride		0.000640	U	0.000640	0.00191
Chlorobenzene		0.000640	U	0.000640	0.00191
Chloroethane		0.00182	U	0.00182	0.00478
Chloroform		0.000640	U	0.000640	0.00191
Chloromethane		0.000640	U	0.000640	0.00191
cis-1,2-Dichloroethene		0.000640	U	0.000640	0.00191
cis-1,3-Dichloropropene		0.000640	U	0.000640	0.00191
Dibromochloromethane		0.000325	U	0.000325	0.00191
1,2-Dibromo-3-chloropropane		0.000669	U	0.000669	0.00478
1,2-Dibromoethane		0.000956	U	0.000956	0.00191
1,2-Dichlorobenzene		0.000325	U	0.000325	0.00191
1,3-Dichlorobenzene		0.000640	U	0.000640	0.00191
1,4-Dichlorobenzene		0.000640	U	0.000640	0.00191
Dichlorodifluoromethane		0.000956	U	0.000956	0.00191
1,1-Dichloroethane		0.000640	U	0.000640	0.00191
1,2-Dichloroethane		0.000640	U	0.000640	0.00191
1,1-Dichloroethene		0.000545	U	0.000545	0.00191
1,2-Dichloropropane		0.000899	U	0.000899	0.00191
1,3-Dichloropropane		0.000899	U	0.000899	0.00191
2,2-Dichloropropane		0.000640	U	0.000640	0.00191
1,1-Dichloropropene		0.000488	U	0.000488	0.00191
Ethylbenzene		0.000640	U	0.000640	0.00191
Hexachlorobutadiene		0.00109	U	0.00109	0.00478
2-Hexanone		0.0160	U	0.0160	0.0478
Iodomethane		0.00640	U	0.00640	0.0191
Isopropylbenzene		0.000585	J	0.000392	0.00191
Methylene bromide		0.000535	U	0.000535	0.00191
Methylene Chloride		0.000822	U	0.000822	0.00956
4-Methyl-2-pentanone (MIBK)		0.00182	U	0.00182	0.0478
Methyl tert butyl ether		0.000918	U	0.000918	0.00191
m,p-Xylene		0.00223	J	0.000535	0.00382
Naphthalene		0.0320		0.00163	0.00478
n-Butylbenzene		0.000937	U	0.000937	0.00191
N-Propylbenzene		0.000640	U	0.000640	0.00191
o-Chlorotoluene		0.000851	U	0.000851	0.00191
o-Xylene		0.00124	J	0.000640	0.00191
p-Chlorotoluene		0.000803	U	0.000803	0.00191

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-308-6-7

Lab Sample ID: 490-116560-1 Date Sampled: 11/17/2016 1100
Client Matrix: Solid % Moisture: 20.9 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389824	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112616-17.D
Dilution:	1.0			Initial Weight/Volume:	6.612 g
Analysis Date:	11/26/2016 1824			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000640	U	0.000640	0.00191
sec-Butylbenzene		0.000640	U	0.000640	0.00191
Styrene		0.00105	U	0.00105	0.00191
tert-Butylbenzene		0.000860	U	0.000860	0.00191
1,1,1,2-Tetrachloroethane		0.000640	U	0.000640	0.00191
1,1,2,2-Tetrachloroethane		0.000956	U	0.000956	0.00191
Tetrachloroethene		0.000698	U *	0.000698	0.00191
Toluene		0.000707	U	0.000707	0.00191
trans-1,2-Dichloroethene		0.000640	U	0.000640	0.00191
trans-1,3-Dichloropropene		0.000640	U	0.000640	0.00191
1,2,3-Trichlorobenzene		0.000363	U	0.000363	0.00191
1,2,4-Trichlorobenzene		0.000640	U	0.000640	0.00191
1,1,1-Trichloroethane		0.000879	U	0.000879	0.00191
1,1,2-Trichloroethane		0.00134	U	0.00134	0.00478
Trichloroethene		0.000918	U	0.000918	0.00191
Trichlorofluoromethane		0.000956	U	0.000956	0.00191
1,2,3-Trichloropropane		0.000526	U	0.000526	0.00191
1,2,4-Trimethylbenzene		0.000956	U	0.000956	0.00191
1,3,5-Trimethylbenzene		0.000717	U	0.000717	0.00191
Vinyl acetate		0.00421	U *	0.00421	0.0191
Vinyl chloride		0.00105	U	0.00105	0.00191
Xylenes (total)		0.00347	J	0.00118	0.00574

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	152	*	70 - 130
Dibromofluoromethane (Surr)	105		70 - 130
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
Toluene-d8 (Surr)	116		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-308-6-7

Lab Sample ID: 490-116560-1 Date Sampled: 11/17/2016 1100
Client Matrix: Solid % Moisture: 20.9 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389824	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112616-17.D
Dilution:	1.0			Initial Weight/Volume:	6.612 g
Analysis Date:	11/26/2016 1824			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 1000				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.97	0.102	J N
	Unknown	6.06	0.149	J
3073-66-3	Cyclohexane, 1,1,3-trimethyl-	6.49	0.120	J N
	Unknown	8.11	0.109	J
	Unknown	9.70	0.132	J
	Unknown	10.32	0.112	J
	Unknown	10.79	0.159	J
	Unknown	10.97	0.146	J
4292-75-5	Cyclohexane, hexyl-	11.43	0.348	J N
	Unknown	11.92	0.186	J

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-416

Lab Sample ID: 490-116560-2 Date Sampled: 11/15/2016 1545
Client Matrix: Solid % Moisture: 17.0 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389824	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112616-16.D
Dilution:	1.0			Initial Weight/Volume:	5.104 g
Analysis Date:	11/26/2016 1754			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.194		0.00991	0.0590
Benzene		0.00342		0.000790	0.00236
Bromobenzene		0.000849	U	0.000849	0.00236
Bromochloromethane		0.000649	U	0.000649	0.00236
Bromodichloromethane		0.000649	U	0.000649	0.00236
Bromoform		0.000649	U	0.000649	0.00236
Bromomethane		0.00142	U	0.00142	0.00236
2-Butanone (MEK)		0.0202	J	0.00602	0.0590
Carbon disulfide		0.00425	U	0.00425	0.00590
Carbon tetrachloride		0.000790	U	0.000790	0.00236
Chlorobenzene		0.000790	U	0.000790	0.00236
Chloroethane		0.00224	U	0.00224	0.00590
Chloroform		0.000790	U	0.000790	0.00236
Chloromethane		0.000790	U	0.000790	0.00236
cis-1,2-Dichloroethene		0.000790	U	0.000790	0.00236
cis-1,3-Dichloropropene		0.000790	U	0.000790	0.00236
Dibromochloromethane		0.000401	U	0.000401	0.00236
1,2-Dibromo-3-chloropropane		0.000826	U	0.000826	0.00590
1,2-Dibromoethane		0.00118	U	0.00118	0.00236
1,2-Dichlorobenzene		0.000401	U	0.000401	0.00236
1,3-Dichlorobenzene		0.000790	U	0.000790	0.00236
1,4-Dichlorobenzene		0.000790	U	0.000790	0.00236
Dichlorodifluoromethane		0.00118	U	0.00118	0.00236
1,1-Dichloroethane		0.000790	U	0.000790	0.00236
1,2-Dichloroethane		0.000790	U	0.000790	0.00236
1,1-Dichloroethene		0.000672	U	0.000672	0.00236
1,2-Dichloropropane		0.00111	U	0.00111	0.00236
1,3-Dichloropropane		0.00111	U	0.00111	0.00236
2,2-Dichloropropane		0.000790	U	0.000790	0.00236
1,1-Dichloropropene		0.000602	U	0.000602	0.00236
Ethylbenzene		0.000790	U	0.000790	0.00236
Hexachlorobutadiene		0.00134	U	0.00134	0.00590
2-Hexanone		0.0197	U	0.0197	0.0590
Iodomethane		0.00790	U	0.00790	0.0236
Isopropylbenzene		0.000484	U	0.000484	0.00236
Methylene bromide		0.000661	U	0.000661	0.00236
Methylene Chloride		0.00101	U	0.00101	0.0118
4-Methyl-2-pentanone (MIBK)		0.00224	U	0.00224	0.0590
Methyl tert butyl ether		0.00113	U	0.00113	0.00236
m,p-Xylene		0.00138	J	0.000661	0.00472
Naphthalene		0.00201	U	0.00201	0.00590
n-Butylbenzene		0.00116	U	0.00116	0.00236
N-Propylbenzene		0.000790	U	0.000790	0.00236
o-Chlorotoluene		0.00105	U	0.00105	0.00236
o-Xylene		0.000790	U	0.000790	0.00236
p-Chlorotoluene		0.000991	U	0.000991	0.00236

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-416

Lab Sample ID: 490-116560-2 Date Sampled: 11/15/2016 1545
Client Matrix: Solid % Moisture: 17.0 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389824	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112616-16.D
Dilution:	1.0			Initial Weight/Volume:	5.104 g
Analysis Date:	11/26/2016 1754			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000790	U	0.000790	0.00236
sec-Butylbenzene		0.000790	U	0.000790	0.00236
Styrene		0.00130	U	0.00130	0.00236
tert-Butylbenzene		0.00106	U	0.00106	0.00236
1,1,1,2-Tetrachloroethane		0.000790	U	0.000790	0.00236
1,1,2,2-Tetrachloroethane		0.00118	U	0.00118	0.00236
Tetrachloroethene		0.000861	U *	0.000861	0.00236
Toluene		0.00193	J	0.000873	0.00236
trans-1,2-Dichloroethene		0.000790	U	0.000790	0.00236
trans-1,3-Dichloropropene		0.000790	U	0.000790	0.00236
1,2,3-Trichlorobenzene		0.000448	U	0.000448	0.00236
1,2,4-Trichlorobenzene		0.000790	U	0.000790	0.00236
1,1,1-Trichloroethane		0.00109	U	0.00109	0.00236
1,1,2-Trichloroethane		0.00165	U	0.00165	0.00590
Trichloroethene		0.00113	U	0.00113	0.00236
Trichlorofluoromethane		0.00118	U	0.00118	0.00236
1,2,3-Trichloropropane		0.000649	U	0.000649	0.00236
1,2,4-Trimethylbenzene		0.00118	U	0.00118	0.00236
1,3,5-Trimethylbenzene		0.000885	U	0.000885	0.00236
Vinyl acetate		0.00519	U *	0.00519	0.0236
Vinyl chloride		0.00130	U	0.00130	0.00236
Xylenes (total)		0.00145	U	0.00145	0.00708

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	134	*	70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	111		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-416

Lab Sample ID: 490-116560-2 Date Sampled: 11/15/2016 1545
Client Matrix: Solid % Moisture: 17.0 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389824	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112616-16.D
Dilution:	1.0			Initial Weight/Volume:	5.104 g
Analysis Date:	11/26/2016 1754			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1445				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
	Unknown	1.57	0.00772	J
	Unknown	1.81	0.00764	J
	Unknown	1.99	0.0194	J
67-63-0	Isopropyl alcohol	2.75	0.0283	J
79-20-9	Methyl acetate	2.84	0.523	*
71-36-3	n-Butanol	4.71	0.0519	J
110-62-3	Pentanal	4.98	0.00831	J N
	Unknown	6.36	0.0216	J
	Unknown	7.68	0.00621	J
	Unknown	9.26	0.00627	J

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-413

Lab Sample ID: 490-116560-3 Date Sampled: 11/15/2016 1500
Client Matrix: Solid % Moisture: 18.7 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389572	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-21.D
Dilution:	1.0			Initial Weight/Volume:	5.636 g
Analysis Date:	11/25/2016 2042			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0784		0.00916	0.0545
Benzene		0.00129	J	0.000731	0.00218
Bromobenzene		0.000785	U	0.000785	0.00218
Bromochloromethane		0.000600	U	0.000600	0.00218
Bromodichloromethane		0.000600	U	0.000600	0.00218
Bromoform		0.000600	U	0.000600	0.00218
Bromomethane		0.00131	U	0.00131	0.00218
2-Butanone (MEK)		0.00852	J	0.00556	0.0545
Carbon disulfide		0.00393	U	0.00393	0.00545
Carbon tetrachloride		0.000731	U	0.000731	0.00218
Chlorobenzene		0.000731	U	0.000731	0.00218
Chloroethane		0.00207	U	0.00207	0.00545
Chloroform		0.000731	U	0.000731	0.00218
Chloromethane		0.000731	U	0.000731	0.00218
cis-1,2-Dichloroethene		0.000731	U	0.000731	0.00218
cis-1,3-Dichloropropene		0.000731	U	0.000731	0.00218
Dibromochloromethane		0.000371	U	0.000371	0.00218
1,2-Dibromo-3-chloropropane		0.000764	U	0.000764	0.00545
1,2-Dibromoethane		0.00109	U	0.00109	0.00218
1,2-Dichlorobenzene		0.000371	U	0.000371	0.00218
1,3-Dichlorobenzene		0.000731	U	0.000731	0.00218
1,4-Dichlorobenzene		0.000731	U	0.000731	0.00218
Dichlorodifluoromethane		0.00109	U	0.00109	0.00218
1,1-Dichloroethane		0.000731	U	0.000731	0.00218
1,2-Dichloroethane		0.000731	U	0.000731	0.00218
1,1-Dichloroethene		0.000622	U	0.000622	0.00218
1,2-Dichloropropane		0.00103	U	0.00103	0.00218
1,3-Dichloropropane		0.00103	U	0.00103	0.00218
2,2-Dichloropropane		0.000731	U	0.000731	0.00218
1,1-Dichloropropene		0.000556	U	0.000556	0.00218
Ethylbenzene		0.000731	U	0.000731	0.00218
Hexachlorobutadiene		0.00124	U	0.00124	0.00545
2-Hexanone		0.0182	U	0.0182	0.0545
Iodomethane		0.00731	U	0.00731	0.0218
Isopropylbenzene		0.000447	U	0.000447	0.00218
Methylene bromide		0.000611	U	0.000611	0.00218
Methylene Chloride		0.000938	U	0.000938	0.0109
4-Methyl-2-pentanone (MIBK)		0.00207	U	0.00207	0.0545
Methyl tert butyl ether		0.00105	U	0.00105	0.00218
m,p-Xylene		0.000611	U	0.000611	0.00436
Naphthalene		0.00185	U	0.00185	0.00545
n-Butylbenzene		0.00107	U	0.00107	0.00218
N-Propylbenzene		0.000731	U	0.000731	0.00218
o-Chlorotoluene		0.000971	U	0.000971	0.00218
o-Xylene		0.000731	U	0.000731	0.00218
p-Chlorotoluene		0.000916	U	0.000916	0.00218

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-413

Lab Sample ID: 490-116560-3 Date Sampled: 11/15/2016 1500
Client Matrix: Solid % Moisture: 18.7 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389572	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-21.D
Dilution:	1.0			Initial Weight/Volume:	5.636 g
Analysis Date:	11/25/2016 2042			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000731	U	0.000731	0.00218
sec-Butylbenzene		0.000731	U	0.000731	0.00218
Styrene		0.00120	U	0.00120	0.00218
tert-Butylbenzene		0.000982	U	0.000982	0.00218
1,1,1,2-Tetrachloroethane		0.000731	U	0.000731	0.00218
1,1,2,2-Tetrachloroethane		0.00109	U	0.00109	0.00218
Tetrachloroethene		0.000796	U	0.000796	0.00218
Toluene		0.000807	U	0.000807	0.00218
trans-1,2-Dichloroethene		0.000731	U	0.000731	0.00218
trans-1,3-Dichloropropene		0.000731	U	0.000731	0.00218
1,2,3-Trichlorobenzene		0.000415	U	0.000415	0.00218
1,2,4-Trichlorobenzene		0.000731	U	0.000731	0.00218
1,1,1-Trichloroethane		0.00100	U	0.00100	0.00218
1,1,2-Trichloroethane		0.00153	U	0.00153	0.00545
Trichloroethene		0.00105	U	0.00105	0.00218
Trichlorofluoromethane		0.00109	U	0.00109	0.00218
1,2,3-Trichloropropane		0.000600	U	0.000600	0.00218
1,2,4-Trimethylbenzene		0.00109	U	0.00109	0.00218
1,3,5-Trimethylbenzene		0.000818	U	0.000818	0.00218
Vinyl acetate		0.00480	U *	0.00480	0.0218
Vinyl chloride		0.00120	U	0.00120	0.00218
Xylenes (total)		0.00134	U	0.00134	0.00654

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-413

Lab Sample ID: 490-116560-3 Date Sampled: 11/15/2016 1500
Client Matrix: Solid % Moisture: 18.7 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389572	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-21.D
Dilution:	1.0			Initial Weight/Volume:	5.636 g
Analysis Date:	11/25/2016 2042			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1400				

Tentatively Identified Compounds **Number TIC's Found: 8**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
	Unknown	1.99	0.00805	J
79-20-9	Methyl acetate	2.84	0.159	*
75-65-0	2-Methyl-2-propanol	2.99	0.0132	J
110-54-3	Hexane	3.25	0.00134	J
142-82-5	n-Heptane	4.48	0.00139	J
71-36-3	n-Butanol	4.71	0.0224	J B
	Unknown	4.98	0.00548	J
	Unknown	6.36	0.00768	J

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-410

Lab Sample ID: 490-116560-4 Date Sampled: 11/15/2016 1430
Client Matrix: Solid % Moisture: 15.7 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389572	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-22.D
Dilution:	1.0			Initial Weight/Volume:	5.676 g
Analysis Date:	11/25/2016 2113			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1330				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0416	J	0.00878	0.0523
Benzene		0.00247		0.000700	0.00209
Bromobenzene		0.000753	U	0.000753	0.00209
Bromochloromethane		0.000575	U	0.000575	0.00209
Bromodichloromethane		0.000575	U	0.000575	0.00209
Bromoform		0.000575	U	0.000575	0.00209
Bromomethane		0.00125	U	0.00125	0.00209
2-Butanone (MEK)		0.00791	J	0.00533	0.0523
Carbon disulfide		0.00376	U	0.00376	0.00523
Carbon tetrachloride		0.000700	U	0.000700	0.00209
Chlorobenzene		0.000700	U	0.000700	0.00209
Chloroethane		0.00199	U	0.00199	0.00523
Chloroform		0.000700	U	0.000700	0.00209
Chloromethane		0.000700	U	0.000700	0.00209
cis-1,2-Dichloroethene		0.000700	U	0.000700	0.00209
cis-1,3-Dichloropropene		0.000700	U	0.000700	0.00209
Dibromochloromethane		0.000355	U	0.000355	0.00209
1,2-Dibromo-3-chloropropane		0.000732	U	0.000732	0.00523
1,2-Dibromoethane		0.00105	U	0.00105	0.00209
1,2-Dichlorobenzene		0.000355	U	0.000355	0.00209
1,3-Dichlorobenzene		0.000700	U	0.000700	0.00209
1,4-Dichlorobenzene		0.000700	U	0.000700	0.00209
Dichlorodifluoromethane		0.00105	U	0.00105	0.00209
1,1-Dichloroethane		0.000700	U	0.000700	0.00209
1,2-Dichloroethane		0.000700	U	0.000700	0.00209
1,1-Dichloroethene		0.000596	U	0.000596	0.00209
1,2-Dichloropropane		0.000983	U	0.000983	0.00209
1,3-Dichloropropane		0.000983	U	0.000983	0.00209
2,2-Dichloropropane		0.000700	U	0.000700	0.00209
1,1-Dichloropropene		0.000533	U	0.000533	0.00209
Ethylbenzene		0.000700	U	0.000700	0.00209
Hexachlorobutadiene		0.00119	U	0.00119	0.00523
2-Hexanone		0.0175	U	0.0175	0.0523
Iodomethane		0.00700	U	0.00700	0.0209
Isopropylbenzene		0.000429	U	0.000429	0.00209
Methylene bromide		0.000585	U	0.000585	0.00209
Methylene Chloride		0.000899	U	0.000899	0.0105
4-Methyl-2-pentanone (MIBK)		0.00199	U	0.00199	0.0523
Methyl tert butyl ether		0.00100	U	0.00100	0.00209
m,p-Xylene		0.00236	J	0.000585	0.00418
Naphthalene		0.00178	U	0.00178	0.00523
n-Butylbenzene		0.00102	U	0.00102	0.00209
N-Propylbenzene		0.000700	U	0.000700	0.00209
o-Chlorotoluene		0.000930	U	0.000930	0.00209
o-Xylene		0.000700	U	0.000700	0.00209
p-Chlorotoluene		0.000878	U	0.000878	0.00209

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-410

Lab Sample ID: 490-116560-4 Date Sampled: 11/15/2016 1430
Client Matrix: Solid % Moisture: 15.7 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389572	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-22.D
Dilution:	1.0			Initial Weight/Volume:	5.676 g
Analysis Date:	11/25/2016 2113			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1330				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000700	U	0.000700	0.00209
sec-Butylbenzene		0.000700	U	0.000700	0.00209
Styrene		0.00115	U	0.00115	0.00209
tert-Butylbenzene		0.000941	U	0.000941	0.00209
1,1,1,2-Tetrachloroethane		0.000700	U	0.000700	0.00209
1,1,2,2-Tetrachloroethane		0.00105	U	0.00105	0.00209
Tetrachloroethene		0.000763	U	0.000763	0.00209
Toluene		0.00162	J	0.000774	0.00209
trans-1,2-Dichloroethene		0.000700	U	0.000700	0.00209
trans-1,3-Dichloropropene		0.000700	U	0.000700	0.00209
1,2,3-Trichlorobenzene		0.000397	U	0.000397	0.00209
1,2,4-Trichlorobenzene		0.000700	U	0.000700	0.00209
1,1,1-Trichloroethane		0.000962	U	0.000962	0.00209
1,1,2-Trichloroethane		0.00146	U	0.00146	0.00523
Trichloroethene		0.00100	U	0.00100	0.00209
Trichlorofluoromethane		0.00105	U	0.00105	0.00209
1,2,3-Trichloropropane		0.000575	U	0.000575	0.00209
1,2,4-Trimethylbenzene		0.00105	U	0.00105	0.00209
1,3,5-Trimethylbenzene		0.000784	U	0.000784	0.00209
Vinyl acetate		0.00460	U *	0.00460	0.0209
Vinyl chloride		0.00115	U	0.00115	0.00209
Xylenes (total)		0.00236	J	0.00129	0.00627

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-410

Lab Sample ID: 490-116560-4 Date Sampled: 11/15/2016 1430
Client Matrix: Solid % Moisture: 15.7 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389572	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-22.D
Dilution:	1.0			Initial Weight/Volume:	5.676 g
Analysis Date:	11/25/2016 2113			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1330				

Tentatively Identified Compounds **Number TIC's Found: 3**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
110-54-3	Hexane	3.25	0.00202	J
110-82-7	Cyclohexane	4.12	0.000924	J
108-87-2	Methylcyclohexane	4.94	0.00137	J

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-411

Lab Sample ID: 490-116560-5 Date Sampled: 11/15/2016 1435
Client Matrix: Solid % Moisture: 18.1 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389572	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-23.D
Dilution:	1.0			Initial Weight/Volume:	6.317 g
Analysis Date:	11/25/2016 2143			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1335				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0553		0.00812	0.0483
Benzene		0.000647	U	0.000647	0.00193
Bromobenzene		0.000696	U	0.000696	0.00193
Bromochloromethane		0.000531	U	0.000531	0.00193
Bromodichloromethane		0.000531	U	0.000531	0.00193
Bromoform		0.000531	U	0.000531	0.00193
Bromomethane		0.00116	U	0.00116	0.00193
2-Butanone (MEK)		0.0110	J	0.00493	0.0483
Carbon disulfide		0.00348	U	0.00348	0.00483
Carbon tetrachloride		0.000647	U	0.000647	0.00193
Chlorobenzene		0.000647	U	0.000647	0.00193
Chloroethane		0.00184	U	0.00184	0.00483
Chloroform		0.000647	U	0.000647	0.00193
Chloromethane		0.000647	U	0.000647	0.00193
cis-1,2-Dichloroethene		0.000647	U	0.000647	0.00193
cis-1,3-Dichloropropene		0.000647	U	0.000647	0.00193
Dibromochloromethane		0.000329	U	0.000329	0.00193
1,2-Dibromo-3-chloropropane		0.000676	U	0.000676	0.00483
1,2-Dibromoethane		0.000966	U	0.000966	0.00193
1,2-Dichlorobenzene		0.000329	U	0.000329	0.00193
1,3-Dichlorobenzene		0.000647	U	0.000647	0.00193
1,4-Dichlorobenzene		0.000647	U	0.000647	0.00193
Dichlorodifluoromethane		0.000966	U	0.000966	0.00193
1,1-Dichloroethane		0.000647	U	0.000647	0.00193
1,2-Dichloroethane		0.000647	U	0.000647	0.00193
1,1-Dichloroethene		0.000551	U	0.000551	0.00193
1,2-Dichloropropane		0.000908	U	0.000908	0.00193
1,3-Dichloropropane		0.000908	U	0.000908	0.00193
2,2-Dichloropropane		0.000647	U	0.000647	0.00193
1,1-Dichloropropene		0.000493	U	0.000493	0.00193
Ethylbenzene		0.000647	U	0.000647	0.00193
Hexachlorobutadiene		0.00110	U	0.00110	0.00483
2-Hexanone		0.0161	U	0.0161	0.0483
Iodomethane		0.00647	U	0.00647	0.0193
Isopropylbenzene		0.000810	J	0.000396	0.00193
Methylene bromide		0.000541	U	0.000541	0.00193
Methylene Chloride		0.000831	U	0.000831	0.00966
4-Methyl-2-pentanone (MIBK)		0.00184	U	0.00184	0.0483
Methyl tert butyl ether		0.000928	U	0.000928	0.00193
m,p-Xylene		0.00131	J	0.000541	0.00387
Naphthalene		0.00411	J	0.00164	0.00483
n-Butylbenzene		0.00347		0.000947	0.00193
N-Propylbenzene		0.00121	J	0.000647	0.00193
o-Chlorotoluene		0.000860	U	0.000860	0.00193
o-Xylene		0.000831	J	0.000647	0.00193
p-Chlorotoluene		0.000812	U	0.000812	0.00193

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-411

Lab Sample ID: 490-116560-5 Date Sampled: 11/15/2016 1435
Client Matrix: Solid % Moisture: 18.1 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389572	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-23.D
Dilution:	1.0			Initial Weight/Volume:	6.317 g
Analysis Date:	11/25/2016 2143			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1335				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000647	U	0.000647	0.00193
sec-Butylbenzene		0.000771	J	0.000647	0.00193
Styrene		0.00106	U	0.00106	0.00193
tert-Butylbenzene		0.000870	U	0.000870	0.00193
1,1,1,2-Tetrachloroethane		0.000647	U	0.000647	0.00193
1,1,2,2-Tetrachloroethane		0.000966	U	0.000966	0.00193
Tetrachloroethene		0.000705	U	0.000705	0.00193
Toluene		0.000715	U	0.000715	0.00193
trans-1,2-Dichloroethene		0.000647	U	0.000647	0.00193
trans-1,3-Dichloropropene		0.000647	U	0.000647	0.00193
1,2,3-Trichlorobenzene		0.000367	U	0.000367	0.00193
1,2,4-Trichlorobenzene		0.000647	U	0.000647	0.00193
1,1,1-Trichloroethane		0.000889	U	0.000889	0.00193
1,1,2-Trichloroethane		0.00135	U	0.00135	0.00483
Trichloroethene		0.000928	U	0.000928	0.00193
Trichlorofluoromethane		0.000966	U	0.000966	0.00193
1,2,3-Trichloropropane		0.000531	U	0.000531	0.00193
1,2,4-Trimethylbenzene		0.00564		0.000966	0.00193
1,3,5-Trimethylbenzene		0.000725	U	0.000725	0.00193
Vinyl acetate		0.00425	U *	0.00425	0.0193
Vinyl chloride		0.00106	U	0.00106	0.00193
Xylenes (total)		0.00214	J	0.00119	0.00580

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	121		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-411

Lab Sample ID: 490-116560-5 Date Sampled: 11/15/2016 1435
Client Matrix: Solid % Moisture: 18.1 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389572	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112516-23.D
Dilution:	1.0			Initial Weight/Volume:	6.317 g
Analysis Date:	11/25/2016 2143			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1335				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
108-87-2	Methylcyclohexane	4.94	0.199	
2815-58-9	Cyclopentane, 1,2,4-trimethyl-	5.12	0.0873	J N
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.97	0.141	J N
2207-04-7	Cyclohexane, 1,4-dimethyl-, trans-	6.06	0.141	J N
3073-66-3	Cyclohexane, 1,1,3-trimethyl-	6.49	0.238	J N
1795-26-2	Cyclohexane, 1,3,5-trimethyl-, (1.alpha.,3.alpha.,5.beta.)-	6.69	0.0712	J N
2039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	10.80	0.0844	J N
	Unknown	11.22	0.113	J
769-57-3	.alpha.,.beta.,.beta.-Trimethylstyrene	11.35	0.0743	J N
	Unknown	12.27	0.0835	J

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-417

Lab Sample ID: 490-116560-6 Date Sampled: 11/15/2016 1545
Client Matrix: Solid % Moisture: 11.3 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389824	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112616-15.D
Dilution:	1.0			Initial Weight/Volume:	5.112 g
Analysis Date:	11/26/2016 1724			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.225		0.00926	0.0551
Benzene		0.00107	J	0.000739	0.00221
Bromobenzene		0.000794	U	0.000794	0.00221
Bromochloromethane		0.000606	U	0.000606	0.00221
Bromodichloromethane		0.000606	U	0.000606	0.00221
Bromoform		0.000606	U	0.000606	0.00221
Bromomethane		0.00132	U	0.00132	0.00221
2-Butanone (MEK)		0.0366	J	0.00562	0.0551
Carbon disulfide		0.00397	U	0.00397	0.00551
Carbon tetrachloride		0.000739	U	0.000739	0.00221
Chlorobenzene		0.000739	U	0.000739	0.00221
Chloroethane		0.00210	U	0.00210	0.00551
Chloroform		0.000739	U	0.000739	0.00221
Chloromethane		0.000739	U	0.000739	0.00221
cis-1,2-Dichloroethene		0.000739	U	0.000739	0.00221
cis-1,3-Dichloropropene		0.000739	U	0.000739	0.00221
Dibromochloromethane		0.000375	U	0.000375	0.00221
1,2-Dibromo-3-chloropropane		0.000772	U	0.000772	0.00551
1,2-Dibromoethane		0.00110	U	0.00110	0.00221
1,2-Dichlorobenzene		0.000375	U	0.000375	0.00221
1,3-Dichlorobenzene		0.000739	U	0.000739	0.00221
1,4-Dichlorobenzene		0.000739	U	0.000739	0.00221
Dichlorodifluoromethane		0.00110	U	0.00110	0.00221
1,1-Dichloroethane		0.000739	U	0.000739	0.00221
1,2-Dichloroethane		0.000739	U	0.000739	0.00221
1,1-Dichloroethene		0.000629	U	0.000629	0.00221
1,2-Dichloropropane		0.00104	U	0.00104	0.00221
1,3-Dichloropropane		0.00104	U	0.00104	0.00221
2,2-Dichloropropane		0.000739	U	0.000739	0.00221
1,1-Dichloropropene		0.000562	U	0.000562	0.00221
Ethylbenzene		0.000739	U	0.000739	0.00221
Hexachlorobutadiene		0.00126	U	0.00126	0.00551
2-Hexanone		0.0184	U	0.0184	0.0551
Iodomethane		0.00739	U	0.00739	0.0221
Isopropylbenzene		0.000452	U	0.000452	0.00221
Methylene bromide		0.000618	U	0.000618	0.00221
Methylene Chloride		0.000948	U	0.000948	0.0110
4-Methyl-2-pentanone (MIBK)		0.00210	U	0.00210	0.0551
Methyl tert butyl ether		0.00106	U	0.00106	0.00221
m,p-Xylene		0.000618	U	0.000618	0.00441
Naphthalene		0.00187	U	0.00187	0.00551
n-Butylbenzene		0.00108	U	0.00108	0.00221
N-Propylbenzene		0.000739	U	0.000739	0.00221
o-Chlorotoluene		0.000981	U	0.000981	0.00221
o-Xylene		0.000739	U	0.000739	0.00221
p-Chlorotoluene		0.000926	U	0.000926	0.00221

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-417

Lab Sample ID: 490-116560-6 Date Sampled: 11/15/2016 1545
Client Matrix: Solid % Moisture: 11.3 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389824	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112616-15.D
Dilution:	1.0			Initial Weight/Volume:	5.112 g
Analysis Date:	11/26/2016 1724			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000739	U	0.000739	0.00221
sec-Butylbenzene		0.000739	U	0.000739	0.00221
Styrene		0.00121	U	0.00121	0.00221
tert-Butylbenzene		0.000992	U	0.000992	0.00221
1,1,1,2-Tetrachloroethane		0.000739	U	0.000739	0.00221
1,1,2,2-Tetrachloroethane		0.00110	U	0.00110	0.00221
Tetrachloroethene		0.000805	U *	0.000805	0.00221
Toluene		0.000816	U	0.000816	0.00221
trans-1,2-Dichloroethene		0.000739	U	0.000739	0.00221
trans-1,3-Dichloropropene		0.000739	U	0.000739	0.00221
1,2,3-Trichlorobenzene		0.000419	U	0.000419	0.00221
1,2,4-Trichlorobenzene		0.000739	U	0.000739	0.00221
1,1,1-Trichloroethane		0.00101	U	0.00101	0.00221
1,1,2-Trichloroethane		0.00154	U	0.00154	0.00551
Trichloroethene		0.00106	U	0.00106	0.00221
Trichlorofluoromethane		0.00110	U	0.00110	0.00221
1,2,3-Trichloropropane		0.000606	U	0.000606	0.00221
1,2,4-Trimethylbenzene		0.00110	U	0.00110	0.00221
1,3,5-Trimethylbenzene		0.000827	U	0.000827	0.00221
Vinyl acetate		0.00485	U *	0.00485	0.0221
Vinyl chloride		0.00121	U	0.00121	0.00221
Xylenes (total)		0.00136	U	0.00136	0.00662

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-417

Lab Sample ID: 490-116560-6 Date Sampled: 11/15/2016 1545
Client Matrix: Solid % Moisture: 11.3 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389824	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112616-15.D
Dilution:	1.0			Initial Weight/Volume:	5.112 g
Analysis Date:	11/26/2016 1724			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1445				

Tentatively Identified Compounds **Number TIC's Found: 9**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
	Unknown	1.56	0.00567	J
	Unknown	1.82	0.00991	J
67-63-0	Isopropyl alcohol	2.72	0.0210	J
79-20-9	Methyl acetate	2.84	0.00610	J *
123-72-8	Butanal	3.62	0.00597	J N
71-36-3	n-Butanol	4.70	0.0149	J
110-62-3	Pentanal	4.98	0.00956	J N
	Unknown	6.36	0.00651	J
100-52-7	Benzaldehyde	8.75	0.00879	J N

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-415

Lab Sample ID: 490-116560-7 Date Sampled: 11/15/2016 1545
Client Matrix: Solid % Moisture: 16.9 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389824	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112616-10.D
Dilution:	1.0			Initial Weight/Volume:	6.174 g
Analysis Date:	11/26/2016 1452			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0768		0.00819	0.0487
Benzene		0.000653	U	0.000653	0.00195
Bromobenzene		0.000702	U	0.000702	0.00195
Bromochloromethane		0.000536	U	0.000536	0.00195
Bromodichloromethane		0.000536	U	0.000536	0.00195
Bromoform		0.000536	U	0.000536	0.00195
Bromomethane		0.00117	U	0.00117	0.00195
2-Butanone (MEK)		0.0112	J	0.00497	0.0487
Carbon disulfide		0.00351	U	0.00351	0.00487
Carbon tetrachloride		0.000653	U	0.000653	0.00195
Chlorobenzene		0.000653	U	0.000653	0.00195
Chloroethane		0.00185	U	0.00185	0.00487
Chloroform		0.000653	U	0.000653	0.00195
Chloromethane		0.000653	U	0.000653	0.00195
cis-1,2-Dichloroethene		0.000653	U	0.000653	0.00195
cis-1,3-Dichloropropene		0.000653	U	0.000653	0.00195
Dibromochloromethane		0.000331	U	0.000331	0.00195
1,2-Dibromo-3-chloropropane		0.000682	U	0.000682	0.00487
1,2-Dibromoethane		0.000975	U	0.000975	0.00195
1,2-Dichlorobenzene		0.000331	U	0.000331	0.00195
1,3-Dichlorobenzene		0.000653	U	0.000653	0.00195
1,4-Dichlorobenzene		0.000653	U	0.000653	0.00195
Dichlorodifluoromethane		0.000975	U	0.000975	0.00195
1,1-Dichloroethane		0.000653	U	0.000653	0.00195
1,2-Dichloroethane		0.000653	U	0.000653	0.00195
1,1-Dichloroethene		0.000556	U	0.000556	0.00195
1,2-Dichloropropane		0.000916	U	0.000916	0.00195
1,3-Dichloropropane		0.000916	U	0.000916	0.00195
2,2-Dichloropropane		0.000653	U	0.000653	0.00195
1,1-Dichloropropene		0.000497	U	0.000497	0.00195
Ethylbenzene		0.000653	U	0.000653	0.00195
Hexachlorobutadiene		0.00111	U	0.00111	0.00487
2-Hexanone		0.0163	U	0.0163	0.0487
Iodomethane		0.00653	U	0.00653	0.0195
Isopropylbenzene		0.000400	U	0.000400	0.00195
Methylene bromide		0.000546	U	0.000546	0.00195
Methylene Chloride		0.000838	U	0.000838	0.00975
4-Methyl-2-pentanone (MIBK)		0.00185	U	0.00185	0.0487
Methyl tert butyl ether		0.000936	U	0.000936	0.00195
m,p-Xylene		0.000546	U	0.000546	0.00390
Naphthalene		0.00166	U	0.00166	0.00487
n-Butylbenzene		0.000955	U	0.000955	0.00195
N-Propylbenzene		0.000653	U	0.000653	0.00195
o-Chlorotoluene		0.000867	U	0.000867	0.00195
o-Xylene		0.000653	U	0.000653	0.00195
p-Chlorotoluene		0.000819	U	0.000819	0.00195

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-415

Lab Sample ID: 490-116560-7 Date Sampled: 11/15/2016 1545
Client Matrix: Solid % Moisture: 16.9 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389824	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112616-10.D
Dilution:	1.0			Initial Weight/Volume:	6.174 g
Analysis Date:	11/26/2016 1452			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000653	U	0.000653	0.00195
sec-Butylbenzene		0.000653	U	0.000653	0.00195
Styrene		0.00107	U	0.00107	0.00195
tert-Butylbenzene		0.000877	U	0.000877	0.00195
1,1,1,2-Tetrachloroethane		0.000653	U	0.000653	0.00195
1,1,2,2-Tetrachloroethane		0.000975	U	0.000975	0.00195
Tetrachloroethene		0.000711	U *	0.000711	0.00195
Toluene		0.000721	U	0.000721	0.00195
trans-1,2-Dichloroethene		0.000653	U	0.000653	0.00195
trans-1,3-Dichloropropene		0.000653	U	0.000653	0.00195
1,2,3-Trichlorobenzene		0.000370	U	0.000370	0.00195
1,2,4-Trichlorobenzene		0.000653	U	0.000653	0.00195
1,1,1-Trichloroethane		0.000897	U	0.000897	0.00195
1,1,2-Trichloroethane		0.00136	U	0.00136	0.00487
Trichloroethene		0.000936	U	0.000936	0.00195
Trichlorofluoromethane		0.000975	U	0.000975	0.00195
1,2,3-Trichloropropane		0.000536	U	0.000536	0.00195
1,2,4-Trimethylbenzene		0.000975	U	0.000975	0.00195
1,3,5-Trimethylbenzene		0.000731	U	0.000731	0.00195
Vinyl acetate		0.00429	U *	0.00429	0.0195
Vinyl chloride		0.00107	U	0.00107	0.00195
Xylenes (total)		0.00120	U	0.00120	0.00585

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	113		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-415

Lab Sample ID: 490-116560-7 Date Sampled: 11/15/2016 1545
Client Matrix: Solid % Moisture: 16.9 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389824	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112616-10.D
Dilution:	1.0			Initial Weight/Volume:	6.174 g
Analysis Date:	11/26/2016 1452			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1445				

Tentatively Identified Compounds **Number TIC's Found: 9**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
	Unknown	1.99	0.00909	J
67-63-0	Isopropyl alcohol	2.73	0.0378	J
79-20-9	Methyl acetate	2.84	0.0237	*
75-65-0	2-Methyl-2-propanol	2.99	0.0201	J
71-36-3	n-Butanol	4.71	0.0345	J
	Unknown	8.89	0.0108	J
	Unknown	9.26	0.0115	J
264-09-5	Benzocycloheptatriene	12.77	0.00571	J N
581-40-8	Naphthalene, 2,3-dimethyl-	13.80	0.00768	J N

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-414

Lab Sample ID: 490-116560-8 Date Sampled: 11/15/2016 1530
Client Matrix: Solid % Moisture: 17.7 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389824	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112616-11.D
Dilution:	1.0			Initial Weight/Volume:	6.386 g
Analysis Date:	11/26/2016 1523			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0441	J	0.00799	0.0476
Benzene		0.000637	U	0.000637	0.00190
Bromobenzene		0.000685	U	0.000685	0.00190
Bromochloromethane		0.000523	U	0.000523	0.00190
Bromodichloromethane		0.000523	U	0.000523	0.00190
Bromoform		0.000523	U	0.000523	0.00190
Bromomethane		0.00114	U	0.00114	0.00190
2-Butanone (MEK)		0.00764	J	0.00485	0.0476
Carbon disulfide		0.00342	U	0.00342	0.00476
Carbon tetrachloride		0.000637	U	0.000637	0.00190
Chlorobenzene		0.000637	U	0.000637	0.00190
Chloroethane		0.00181	U	0.00181	0.00476
Chloroform		0.000637	U	0.000637	0.00190
Chloromethane		0.000637	U	0.000637	0.00190
cis-1,2-Dichloroethene		0.000637	U	0.000637	0.00190
cis-1,3-Dichloropropene		0.000637	U	0.000637	0.00190
Dibromochloromethane		0.000323	U	0.000323	0.00190
1,2-Dibromo-3-chloropropane		0.000666	U	0.000666	0.00476
1,2-Dibromoethane		0.000951	U	0.000951	0.00190
1,2-Dichlorobenzene		0.000323	U	0.000323	0.00190
1,3-Dichlorobenzene		0.000637	U	0.000637	0.00190
1,4-Dichlorobenzene		0.000637	U	0.000637	0.00190
Dichlorodifluoromethane		0.000951	U	0.000951	0.00190
1,1-Dichloroethane		0.000637	U	0.000637	0.00190
1,2-Dichloroethane		0.000637	U	0.000637	0.00190
1,1-Dichloroethene		0.000542	U	0.000542	0.00190
1,2-Dichloropropane		0.000894	U	0.000894	0.00190
1,3-Dichloropropane		0.000894	U	0.000894	0.00190
2,2-Dichloropropane		0.000637	U	0.000637	0.00190
1,1-Dichloropropene		0.000485	U	0.000485	0.00190
Ethylbenzene		0.000637	U	0.000637	0.00190
Hexachlorobutadiene		0.00108	U	0.00108	0.00476
2-Hexanone		0.0159	U	0.0159	0.0476
Iodomethane		0.00637	U	0.00637	0.0190
Isopropylbenzene		0.000390	U	0.000390	0.00190
Methylene bromide		0.000533	U	0.000533	0.00190
Methylene Chloride		0.000818	U	0.000818	0.00951
4-Methyl-2-pentanone (MIBK)		0.00181	U	0.00181	0.0476
Methyl tert butyl ether		0.000913	U	0.000913	0.00190
m,p-Xylene		0.00131	J	0.000533	0.00381
Naphthalene		0.00162	U	0.00162	0.00476
n-Butylbenzene		0.000932	U	0.000932	0.00190
N-Propylbenzene		0.000637	U	0.000637	0.00190
o-Chlorotoluene		0.000847	U	0.000847	0.00190
o-Xylene		0.000637	U	0.000637	0.00190
p-Chlorotoluene		0.000799	U	0.000799	0.00190

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-414

Lab Sample ID: 490-116560-8 Date Sampled: 11/15/2016 1530
Client Matrix: Solid % Moisture: 17.7 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389824	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112616-11.D
Dilution:	1.0			Initial Weight/Volume:	6.386 g
Analysis Date:	11/26/2016 1523			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000637	U	0.000637	0.00190
sec-Butylbenzene		0.000637	U	0.000637	0.00190
Styrene		0.00105	U	0.00105	0.00190
tert-Butylbenzene		0.000856	U	0.000856	0.00190
1,1,1,2-Tetrachloroethane		0.000637	U	0.000637	0.00190
1,1,2,2-Tetrachloroethane		0.000951	U	0.000951	0.00190
Tetrachloroethene		0.000695	U *	0.000695	0.00190
Toluene		0.000708	J	0.000704	0.00190
trans-1,2-Dichloroethene		0.000637	U	0.000637	0.00190
trans-1,3-Dichloropropene		0.000637	U	0.000637	0.00190
1,2,3-Trichlorobenzene		0.000362	U	0.000362	0.00190
1,2,4-Trichlorobenzene		0.000637	U	0.000637	0.00190
1,1,1-Trichloroethane		0.000875	U	0.000875	0.00190
1,1,2-Trichloroethane		0.00133	U	0.00133	0.00476
Trichloroethene		0.000913	U	0.000913	0.00190
Trichlorofluoromethane		0.000951	U	0.000951	0.00190
1,2,3-Trichloropropane		0.000523	U	0.000523	0.00190
1,2,4-Trimethylbenzene		0.00109	J	0.000951	0.00190
1,3,5-Trimethylbenzene		0.000714	U	0.000714	0.00190
Vinyl acetate		0.00419	U *	0.00419	0.0190
Vinyl chloride		0.00105	U	0.00105	0.00190
Xylenes (total)		0.00131	J	0.00117	0.00571

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-414

Lab Sample ID: 490-116560-8 Date Sampled: 11/15/2016 1530
Client Matrix: Solid % Moisture: 17.7 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389824	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112616-11.D
Dilution:	1.0			Initial Weight/Volume:	6.386 g
Analysis Date:	11/26/2016 1523			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1430				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
110-82-7	Cyclohexane	4.13	0.000941	J
142-82-5	n-Heptane	4.49	0.00112	J
108-87-2	Methylcyclohexane	4.93	0.00132	J
7094-27-1	1,1,4-Trimethylcyclohexane	6.53	0.00648	J N
	Unknown	7.32	0.00504	J
	Unknown	8.86	0.00501	J
	Unknown	9.26	0.00595	J
	Unknown	12.77	0.00650	J
	Unknown	13.28	0.00537	J
	Unknown	13.80	0.00547	J

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-412

Lab Sample ID: 490-116560-9 Date Sampled: 11/15/2016 1500
Client Matrix: Solid % Moisture: 19.8 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389824	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112616-12.D
Dilution:	1.0			Initial Weight/Volume:	6.506 g
Analysis Date:	11/26/2016 1553			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0715		0.00805	0.0479
Benzene		0.0122		0.000642	0.00192
Bromobenzene		0.000690	U	0.000690	0.00192
Bromochloromethane		0.000527	U	0.000527	0.00192
Bromodichloromethane		0.000527	U	0.000527	0.00192
Bromoform		0.000527	U	0.000527	0.00192
Bromomethane		0.00115	U	0.00115	0.00192
2-Butanone (MEK)		0.0141	J	0.00489	0.0479
Carbon disulfide		0.00345	U	0.00345	0.00479
Carbon tetrachloride		0.000642	U	0.000642	0.00192
Chlorobenzene		0.000642	U	0.000642	0.00192
Chloroethane		0.00182	U	0.00182	0.00479
Chloroform		0.000642	U	0.000642	0.00192
Chloromethane		0.000642	U	0.000642	0.00192
cis-1,2-Dichloroethene		0.000642	U	0.000642	0.00192
cis-1,3-Dichloropropene		0.000642	U	0.000642	0.00192
Dibromochloromethane		0.000326	U	0.000326	0.00192
1,2-Dibromo-3-chloropropane		0.000671	U	0.000671	0.00479
1,2-Dibromoethane		0.000959	U	0.000959	0.00192
1,2-Dichlorobenzene		0.000326	U	0.000326	0.00192
1,3-Dichlorobenzene		0.000642	U	0.000642	0.00192
1,4-Dichlorobenzene		0.000642	U	0.000642	0.00192
Dichlorodifluoromethane		0.000959	U	0.000959	0.00192
1,1-Dichloroethane		0.000642	U	0.000642	0.00192
1,2-Dichloroethane		0.000642	U	0.000642	0.00192
1,1-Dichloroethene		0.000546	U	0.000546	0.00192
1,2-Dichloropropane		0.000901	U	0.000901	0.00192
1,3-Dichloropropane		0.000901	U	0.000901	0.00192
2,2-Dichloropropane		0.000642	U	0.000642	0.00192
1,1-Dichloropropene		0.000489	U	0.000489	0.00192
Ethylbenzene		0.000711	J	0.000642	0.00192
Hexachlorobutadiene		0.00109	U	0.00109	0.00479
2-Hexanone		0.0160	U	0.0160	0.0479
Iodomethane		0.00642	U	0.00642	0.0192
Isopropylbenzene		0.000393	U	0.000393	0.00192
Methylene bromide		0.000537	U	0.000537	0.00192
Methylene Chloride		0.000824	U	0.000824	0.00959
4-Methyl-2-pentanone (MIBK)		0.00182	U	0.00182	0.0479
Methyl tert butyl ether		0.000920	U	0.000920	0.00192
m,p-Xylene		0.00849		0.000537	0.00383
Naphthalene		0.00163	U	0.00163	0.00479
n-Butylbenzene		0.000939	U	0.000939	0.00192
N-Propylbenzene		0.000642	U	0.000642	0.00192
o-Chlorotoluene		0.000853	U	0.000853	0.00192
o-Xylene		0.00285		0.000642	0.00192
p-Chlorotoluene		0.000805	U	0.000805	0.00192

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-412

Lab Sample ID: 490-116560-9 Date Sampled: 11/15/2016 1500
Client Matrix: Solid % Moisture: 19.8 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389824	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112616-12.D
Dilution:	1.0			Initial Weight/Volume:	6.506 g
Analysis Date:	11/26/2016 1553			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000642	U	0.000642	0.00192
sec-Butylbenzene		0.000642	U	0.000642	0.00192
Styrene		0.00105	U	0.00105	0.00192
tert-Butylbenzene		0.000863	U	0.000863	0.00192
1,1,1,2-Tetrachloroethane		0.000642	U	0.000642	0.00192
1,1,2,2-Tetrachloroethane		0.000959	U	0.000959	0.00192
Tetrachloroethene		0.000700	U *	0.000700	0.00192
Toluene		0.0165		0.000709	0.00192
trans-1,2-Dichloroethene		0.000642	U	0.000642	0.00192
trans-1,3-Dichloropropene		0.000642	U	0.000642	0.00192
1,2,3-Trichlorobenzene		0.000364	U	0.000364	0.00192
1,2,4-Trichlorobenzene		0.000642	U	0.000642	0.00192
1,1,1-Trichloroethane		0.000882	U	0.000882	0.00192
1,1,2-Trichloroethane		0.00134	U	0.00134	0.00479
Trichloroethene		0.000920	U	0.000920	0.00192
Trichlorofluoromethane		0.000959	U	0.000959	0.00192
1,2,3-Trichloropropane		0.000527	U	0.000527	0.00192
1,2,4-Trimethylbenzene		0.00180	J	0.000959	0.00192
1,3,5-Trimethylbenzene		0.000719	U	0.000719	0.00192
Vinyl acetate		0.00422	U *	0.00422	0.0192
Vinyl chloride		0.00105	U	0.00105	0.00192
Xylenes (total)		0.0113		0.00118	0.00575

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	135	*	70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	104		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-412

Lab Sample ID: 490-116560-9 Date Sampled: 11/15/2016 1500
Client Matrix: Solid % Moisture: 19.8 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389824	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112616-12.D
Dilution:	1.0			Initial Weight/Volume:	6.506 g
Analysis Date:	11/26/2016 1553			Final Weight/Volume:	5.0 mL
Prep Date:	11/15/2016 1400				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
79-20-9	Methyl acetate	2.84	0.0963	*
75-65-0	2-Methyl-2-propanol	3.01	0.0141	J
110-54-3	Hexane	3.25	0.00210	J
110-82-7	Cyclohexane	4.12	0.00185	J
142-82-5	n-Heptane	4.48	0.00162	J
71-36-3	n-Butanol	4.72	0.0268	J
108-87-2	Methylcyclohexane	4.93	0.00165	J
	Unknown	8.47	0.00527	J
	Unknown	8.59	0.00531	J
	Unknown	9.26	0.00748	J

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-422

Lab Sample ID: 490-116560-10 Date Sampled: 11/17/2016 0945
Client Matrix: Solid % Moisture: 17.4 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389824	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112616-13.D
Dilution:	1.0			Initial Weight/Volume:	3.969 g
Analysis Date:	11/26/2016 1623			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0845				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.115		0.0128	0.0763
Benzene		0.00302	J	0.00102	0.00305
Bromobenzene		0.00110	U	0.00110	0.00305
Bromochloromethane		0.000839	U	0.000839	0.00305
Bromodichloromethane		0.000839	U	0.000839	0.00305
Bromoform		0.000839	U	0.000839	0.00305
Bromomethane		0.00183	U	0.00183	0.00305
2-Butanone (MEK)		0.0147	J	0.00778	0.0763
Carbon disulfide		0.00549	U	0.00549	0.00763
Carbon tetrachloride		0.00102	U	0.00102	0.00305
Chlorobenzene		0.00102	U	0.00102	0.00305
Chloroethane		0.00290	U	0.00290	0.00763
Chloroform		0.00102	U	0.00102	0.00305
Chloromethane		0.00102	U	0.00102	0.00305
cis-1,2-Dichloroethene		0.00102	U	0.00102	0.00305
cis-1,3-Dichloropropene		0.00102	U	0.00102	0.00305
Dibromochloromethane		0.000519	U	0.000519	0.00305
1,2-Dibromo-3-chloropropane		0.00107	U	0.00107	0.00763
1,2-Dibromoethane		0.00153	U	0.00153	0.00305
1,2-Dichlorobenzene		0.000519	U	0.000519	0.00305
1,3-Dichlorobenzene		0.00102	U	0.00102	0.00305
1,4-Dichlorobenzene		0.00102	U	0.00102	0.00305
Dichlorodifluoromethane		0.00153	U	0.00153	0.00305
1,1-Dichloroethane		0.00102	U	0.00102	0.00305
1,2-Dichloroethane		0.00102	U	0.00102	0.00305
1,1-Dichloroethene		0.000870	U	0.000870	0.00305
1,2-Dichloropropane		0.00143	U	0.00143	0.00305
1,3-Dichloropropane		0.00143	U	0.00143	0.00305
2,2-Dichloropropane		0.00102	U	0.00102	0.00305
1,1-Dichloropropene		0.000778	U	0.000778	0.00305
Ethylbenzene		0.00102	U	0.00102	0.00305
Hexachlorobutadiene		0.00174	U	0.00174	0.00763
2-Hexanone		0.0255	U	0.0255	0.0763
Iodomethane		0.0102	U	0.0102	0.0305
Isopropylbenzene		0.000626	U	0.000626	0.00305
Methylene bromide		0.000855	U	0.000855	0.00305
Methylene Chloride		0.00131	U	0.00131	0.0153
4-Methyl-2-pentanone (MIBK)		0.00290	U	0.00290	0.0763
Methyl tert butyl ether		0.00147	U	0.00147	0.00305
m,p-Xylene		0.00176	J	0.000855	0.00610
Naphthalene		0.00433	J	0.00259	0.00763
n-Butylbenzene		0.00150	U	0.00150	0.00305
N-Propylbenzene		0.00102	U	0.00102	0.00305
o-Chlorotoluene		0.00136	U	0.00136	0.00305
o-Xylene		0.00102	U	0.00102	0.00305
p-Chlorotoluene		0.00128	U	0.00128	0.00305

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-422

Lab Sample ID: 490-116560-10 Date Sampled: 11/17/2016 0945
Client Matrix: Solid % Moisture: 17.4 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389824	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112616-13.D
Dilution:	1.0			Initial Weight/Volume:	3.969 g
Analysis Date:	11/26/2016 1623			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0845				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.00102	U	0.00102	0.00305
sec-Butylbenzene		0.00102	U	0.00102	0.00305
Styrene		0.00168	U	0.00168	0.00305
tert-Butylbenzene		0.00137	U	0.00137	0.00305
1,1,1,2-Tetrachloroethane		0.00102	U	0.00102	0.00305
1,1,2,2-Tetrachloroethane		0.00153	U	0.00153	0.00305
Tetrachloroethene		0.00111	U *	0.00111	0.00305
Toluene		0.00390		0.00113	0.00305
trans-1,2-Dichloroethene		0.00102	U	0.00102	0.00305
trans-1,3-Dichloropropene		0.00102	U	0.00102	0.00305
1,2,3-Trichlorobenzene		0.000580	U	0.000580	0.00305
1,2,4-Trichlorobenzene		0.00102	U	0.00102	0.00305
1,1,1-Trichloroethane		0.00140	U	0.00140	0.00305
1,1,2-Trichloroethane		0.00214	U	0.00214	0.00763
Trichloroethene		0.00147	U	0.00147	0.00305
Trichlorofluoromethane		0.00153	U	0.00153	0.00305
1,2,3-Trichloropropane		0.000839	U	0.000839	0.00305
1,2,4-Trimethylbenzene		0.00153	U	0.00153	0.00305
1,3,5-Trimethylbenzene		0.00114	U	0.00114	0.00305
Vinyl acetate		0.00671	U *	0.00671	0.0305
Vinyl chloride		0.00168	U	0.00168	0.00305
Xylenes (total)		0.00188	U	0.00188	0.00916

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	141	*	70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
Toluene-d8 (Surr)	113		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-422

Lab Sample ID: 490-116560-10 Date Sampled: 11/17/2016 0945
Client Matrix: Solid % Moisture: 17.4 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389824	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112616-13.D
Dilution:	1.0			Initial Weight/Volume:	3.969 g
Analysis Date:	11/26/2016 1623			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0845				

Tentatively Identified Compounds **Number TIC's Found: 7**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
	Unknown	1.60	0.0110	J
79-20-9	Methyl acetate	2.84	0.0131	J *
110-54-3	Hexane	3.25	0.00247	J
142-82-5	n-Heptane	4.49	0.00317	J
71-36-3	n-Butanol	4.71	0.0277	J
108-87-2	Methylcyclohexane	4.94	0.00255	J
	Unknown	9.26	0.0113	J

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-421

Lab Sample ID: 490-116560-11 Date Sampled: 11/17/2016 0815
Client Matrix: Solid % Moisture: 10.7 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389824	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112616-08.D
Dilution:	1.0			Initial Weight/Volume:	4.818 g
Analysis Date:	11/26/2016 1351			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0715				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.488		0.00977	0.0581
Benzene		0.00269		0.000779	0.00233
Bromochloromethane		0.000639	U	0.000639	0.00233
Bromodichloromethane		0.000639	U	0.000639	0.00233
Bromoform		0.000639	U	0.000639	0.00233
Bromomethane		0.00140	U	0.00140	0.00233
2-Butanone (MEK)		0.0950		0.00593	0.0581
Carbon disulfide		0.00642		0.00419	0.00581
Carbon tetrachloride		0.000779	U	0.000779	0.00233
Chlorobenzene		0.000779	U	0.000779	0.00233
Chloroethane		0.00221	U	0.00221	0.00581
Chloroform		0.000779	U	0.000779	0.00233
Chloromethane		0.000779	U	0.000779	0.00233
cis-1,2-Dichloroethene		0.000779	U	0.000779	0.00233
cis-1,3-Dichloropropene		0.000779	U	0.000779	0.00233
Dibromochloromethane		0.000395	U	0.000395	0.00233
1,2-Dibromoethane		0.00116	U	0.00116	0.00233
Dichlorodifluoromethane		0.00116	U	0.00116	0.00233
1,1-Dichloroethane		0.000779	U	0.000779	0.00233
1,2-Dichloroethane		0.000779	U	0.000779	0.00233
1,1-Dichloroethene		0.000663	U	0.000663	0.00233
1,2-Dichloropropane		0.00109	U	0.00109	0.00233
1,3-Dichloropropane		0.00109	U	0.00109	0.00233
2,2-Dichloropropane		0.000779	U	0.000779	0.00233
1,1-Dichloropropene		0.000593	U	0.000593	0.00233
Ethylbenzene		0.000779	U	0.000779	0.00233
2-Hexanone		0.0194	U	0.0194	0.0581
Iodomethane		0.00779	U	0.00779	0.0233
Isopropylbenzene		0.0849		0.000477	0.00233
Methylene bromide		0.000651	U	0.000651	0.00233
Methylene Chloride		0.00100	U	0.00100	0.0116
4-Methyl-2-pentanone (MIBK)		0.00221	U	0.00221	0.0581
Methyl tert butyl ether		0.00112	U	0.00112	0.00233
m,p-Xylene		0.000651	U	0.000651	0.00465
o-Xylene		0.000779	U	0.000779	0.00233
Styrene		0.00128	U	0.00128	0.00233
1,1,1,2-Tetrachloroethane		0.000779	U	0.000779	0.00233
Tetrachloroethene		0.000849	U *	0.000849	0.00233
Toluene		0.000860	U	0.000860	0.00233
trans-1,2-Dichloroethene		0.000779	U	0.000779	0.00233
trans-1,3-Dichloropropene		0.000779	U	0.000779	0.00233
1,1,1-Trichloroethane		0.00107	U	0.00107	0.00233
1,1,2-Trichloroethane		0.00163	U	0.00163	0.00581
Trichloroethene		0.00112	U	0.00112	0.00233
Trichlorofluoromethane		0.00116	U	0.00116	0.00233
Vinyl acetate		0.00512	U *	0.00512	0.0233

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-421

Lab Sample ID: 490-116560-11 Date Sampled: 11/17/2016 0815
Client Matrix: Solid % Moisture: 10.7 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389824	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112616-08.D
Dilution:	1.0			Initial Weight/Volume:	4.818 g
Analysis Date:	11/26/2016 1351			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0715				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl chloride		0.00128	U	0.00128	0.00233
Xylenes (total)		0.00143	U	0.00143	0.00698

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	1264	*	70 - 130
Dibromofluoromethane (Surr)	112		70 - 130
1,2-Dichloroethane-d4 (Surr)	111		70 - 130
Toluene-d8 (Surr)	1052	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-421

Lab Sample ID: 490-116560-11 Date Sampled: 11/17/2016 0815
Client Matrix: Solid % Moisture: 10.7 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389824	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-389096	Lab File ID:	112616-08.D
Dilution:	1.0			Initial Weight/Volume:	4.818 g
Analysis Date:	11/26/2016 1351			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0715				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
110-82-7	Cyclohexane	4.13	0.882	E
108-87-2	Methylcyclohexane	4.95	3.29	E
	Unknown	6.70	0.318	J
	Unknown	7.17	0.306	J
	Unknown	7.47	0.457	J
	Unknown	7.74	0.451	J
	Unknown	8.97	0.229	J
	Unknown	9.73	0.225	J
	Unknown	11.01	0.245	J
6682-71-9	1H-Indene, 2,3-dihydro-4,7-dimethyl-	12.11	0.270	J N

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-421

Lab Sample ID: 490-116560-11 Date Sampled: 11/17/2016 0815
Client Matrix: Solid % Moisture: 10.7 Date Received: 11/21/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-389914	Instrument ID:	HP68
Prep Method:	5035A	Prep Batch:	490-389095	Lab File ID:	11261637.D
Dilution:	1.0			Initial Weight/Volume:	6.924 g
Analysis Date:	11/27/2016 0244			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0715				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0335	U	0.0335	0.0929
1,2-Dibromo-3-chloropropane		0.0325	U	0.0325	0.232
1,2-Dichlorobenzene		0.0158	U	0.0158	0.0929
1,3-Dichlorobenzene		0.0316	U	0.0316	0.0929
1,4-Dichlorobenzene		0.0437	U	0.0437	0.0929
Hexachlorobutadiene		0.0511	U	0.0511	0.232
Naphthalene		0.0790	U	0.0790	0.232
n-Butylbenzene		0.698		0.0465	0.0929
N-Propylbenzene		0.162		0.0316	0.0929
o-Chlorotoluene		0.0427	U	0.0427	0.0929
p-Chlorotoluene		0.0390	U	0.0390	0.0929
p-Isopropyltoluene		0.0666	J	0.0316	0.0929
sec-Butylbenzene		0.737		0.0316	0.0929
tert-Butylbenzene		0.176		0.0465	0.0929
1,1,2,2-Tetrachloroethane		0.0465	U	0.0465	0.0929
1,2,3-Trichlorobenzene		0.0177	U	0.0177	0.0929
1,2,4-Trichlorobenzene		0.0316	U	0.0316	0.0929
1,2,3-Trichloropropane		0.0260	U	0.0260	0.0929
1,2,4-Trimethylbenzene		0.885		0.0465	0.0929
1,3,5-Trimethylbenzene		0.487		0.0353	0.0929

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-406

Lab Sample ID: 490-116559-1 Date Sampled: 11/14/2016 0930
Client Matrix: Solid % Moisture: 16.7 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-07.D
Dilution:	5.0			Initial Weight/Volume:	30.85 g
Analysis Date:	11/29/2016 1902			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.187	U	0.187	0.391
Acenaphthylene		0.169	U	0.169	0.391
Aniline		1.48	U	1.48	3.91
Anthracene		0.169	U	0.169	0.391
Benzidine		1.19	U	1.19	1.94
Benzo(a)anthracene		0.373	J	0.175	0.391
Benzo(a)pyrene		0.474		0.158	0.391
Benzo(b)fluoranthene		0.249	J	0.163	0.391
Benzo(g,h,i)perylene		0.924		0.193	0.391
Benzoic acid		0.764	J	0.350	1.94
Benzo(k)fluoranthene		0.158	U	0.158	0.391
Benzyl alcohol		1.13	U	1.13	1.94
Bis(2-chloroethoxy)methane		1.17	U	1.17	1.94
Bis(2-chloroethyl)ether		1.24	U	1.24	1.94
bis (2-chloroisopropyl) ether		1.16	U	1.16	1.94
Bis(2-ethylhexyl)phthalate		1.21	U	1.21	1.94
4-Bromophenyl phenyl ether		1.20	U	1.20	1.94
Butyl benzyl phthalate		1.25	U	1.25	1.94
Carbazole		1.21	U	1.21	1.94
4-Chloroaniline		1.32	U	1.32	1.94
4-Chloro-3-methylphenol		0.980	U	0.980	1.94
2-Chloronaphthalene		1.22	U	1.22	1.94
2-Chlorophenol		1.11	U	1.11	1.94
4-Chlorophenyl phenyl ether		1.17	U	1.17	1.94
Chrysene		0.659		0.216	0.391
Dibenzo(a,h)anthracene		0.187	U	0.187	0.391
Dibenzofuran		1.23	U	1.23	1.94
1,2-Dichlorobenzene		1.11	U	1.11	1.94
1,3-Dichlorobenzene		1.11	U	1.11	1.94
1,4-Dichlorobenzene		1.14	U	1.14	1.94
3,3'-Dichlorobenzidine		1.19	U	1.19	3.91
2,4-Dichlorophenol		1.02	U	1.02	1.94
Diethyl phthalate		1.24	U	1.24	1.94
2,4-Dimethylphenol		1.95	U	1.95	3.91
Dimethyl phthalate		1.21	U	1.21	1.94
Di-n-butyl phthalate		1.23	U	1.23	1.94
4,6-Dinitro-o-cresol		1.34	U	1.34	1.94
2,4-Dinitrophenol		1.46	U	1.46	1.94
2,4-Dinitrotoluene		1.21	U	1.21	1.94
2,6-Dinitrotoluene		1.30	U	1.30	1.94
Di-n-octyl phthalate		1.04	U	1.04	1.94
1,2-Diphenylhydrazine (as Azobenzene)		1.37	U	1.37	1.94
Fluoranthene		0.198	U	0.198	0.391
Fluorene		0.169	U	0.169	0.391
Hexachlorobenzene		1.46	U	1.46	1.94
Hexachlorobutadiene		0.975	U	0.975	1.94

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-406

Lab Sample ID: 490-116559-1 Date Sampled: 11/14/2016 0930
Client Matrix: Solid % Moisture: 16.7 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-07.D
Dilution:	5.0			Initial Weight/Volume:	30.85 g
Analysis Date:	11/29/2016 1902			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.875	U	0.875	1.94
Hexachloroethane		1.06	U	1.06	1.94
Ideno(1,2,3-cd)pyrene		0.238	J	0.169	0.391
Isophorone		1.10	U	1.10	1.94
1-Methylnaphthalene		0.258	J	0.163	0.391
2-Methylnaphthalene		0.152	U	0.152	0.391
Naphthalene		0.169	U	0.169	0.391
2-Nitroaniline		1.21	U	1.21	1.94
3-Nitroaniline		1.34	U	1.34	3.91
4-Nitroaniline		1.39	U	1.39	3.91
Nitrobenzene		1.17	U	1.17	1.94
2-Nitrophenol		1.42	U	1.42	1.94
4-Nitrophenol		2.23	U	2.23	3.91
N-Nitrosodimethylamine		0.117	U	0.117	1.94
N-Nitrosodi-n-propylamine		1.13	U	1.13	1.94
N-Nitrosodiphenylamine		0.309	U	0.309	1.94
Pentachlorophenol		1.55	U	1.55	3.91
Phenanthrene		0.837		0.198	0.391
Phenol		1.18	U	1.18	1.94
Pyrene		1.67		0.198	0.391
Pyridine		1.16	U	1.16	3.91
1,2,4-Trichlorobenzene		1.06	U	1.06	1.94
2,4,5-Trichlorophenol		1.27	U	1.27	1.94
2,4,6-Trichlorophenol		1.12	U	1.12	1.94

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	57		29 - 120
2-Fluorophenol (Surr)	37		10 - 120
Nitrobenzene-d5 (Surr)	55		27 - 120
Phenol-d5 (Surr)	48		10 - 120
Terphenyl-d14 (Surr)	63		13 - 120
2,4,6-Tribromophenol (Surr)	60		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-300-6-7

Lab Sample ID: 490-116559-2 Date Sampled: 11/15/2016 0930
Client Matrix: Solid % Moisture: 8.4 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-10.D
Dilution:	1.0			Initial Weight/Volume:	30.61 g
Analysis Date:	11/29/2016 1956			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0342	U	0.0342	0.0717
Acenaphthylene		0.0310	U	0.0310	0.0717
Aniline		0.271	U	0.271	0.717
Anthracene		0.0704	J	0.0310	0.0717
Benzidine		0.218	U	0.218	0.356
Benzo(a)anthracene		0.114		0.0321	0.0717
Benzo(a)pyrene		0.0722		0.0289	0.0717
Benzo(b)fluoranthene		0.0833		0.0300	0.0717
Benzo(g,h,i)perylene		0.0408	J	0.0353	0.0717
Benzoic acid		0.0642	U	0.0642	0.356
Benzo(k)fluoranthene		0.0493	J	0.0289	0.0717
Benzyl alcohol		0.208	U	0.208	0.356
Bis(2-chloroethoxy)methane		0.214	U	0.214	0.356
Bis(2-chloroethyl)ether		0.228	U	0.228	0.356
bis (2-chloroisopropyl) ether		0.212	U	0.212	0.356
Bis(2-ethylhexyl)phthalate		0.221	U	0.221	0.356
4-Bromophenyl phenyl ether		0.219	U	0.219	0.356
Butyl benzyl phthalate		0.230	U	0.230	0.356
Carbazole		0.221	U	0.221	0.356
4-Chloroaniline		0.243	U	0.243	0.356
4-Chloro-3-methylphenol		0.180	U	0.180	0.356
2-Chloronaphthalene		0.224	U	0.224	0.356
2-Chlorophenol		0.204	U	0.204	0.356
4-Chlorophenyl phenyl ether		0.215	U	0.215	0.356
Chrysene		0.128		0.0396	0.0717
Dibenzo(a,h)anthracene		0.0342	U	0.0342	0.0717
Dibenzofuran		0.225	U	0.225	0.356
1,2-Dichlorobenzene		0.203	U	0.203	0.356
1,3-Dichlorobenzene		0.203	U	0.203	0.356
1,4-Dichlorobenzene		0.210	U	0.210	0.356
3,3'-Dichlorobenzidine		0.218	U	0.218	0.717
2,4-Dichlorophenol		0.187	U	0.187	0.356
Diethyl phthalate		0.227	U	0.227	0.356
2,4-Dimethylphenol		0.358	U	0.358	0.717
Dimethyl phthalate		0.221	U	0.221	0.356
Di-n-butyl phthalate		0.226	U	0.226	0.356
4,6-Dinitro-o-cresol		0.245	U	0.245	0.356
2,4-Dinitrophenol		0.269	U	0.269	0.356
2,4-Dinitrotoluene		0.223	U	0.223	0.356
2,6-Dinitrotoluene		0.239	U	0.239	0.356
Di-n-octyl phthalate		0.190	U	0.190	0.356
1,2-Diphenylhydrazine (as Azobenzene)		0.250	U	0.250	0.356
Fluoranthene		0.267		0.0364	0.0717
Fluorene		0.0310	U	0.0310	0.0717
Hexachlorobenzene		0.267	U	0.267	0.356
Hexachlorobutadiene		0.179	U	0.179	0.356

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-300-6-7

Lab Sample ID: 490-116559-2 Date Sampled: 11/15/2016 0930
Client Matrix: Solid % Moisture: 8.4 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-10.D
Dilution:	1.0			Initial Weight/Volume:	30.61 g
Analysis Date:	11/29/2016 1956			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.160	U	0.160	0.356
Hexachloroethane		0.194	U	0.194	0.356
Ideno(1,2,3-cd)pyrene		0.0367	J	0.0310	0.0717
Isophorone		0.201	U	0.201	0.356
1-Methylnaphthalene		0.0300	U	0.0300	0.0717
2-Methylnaphthalene		0.0278	U	0.0278	0.0717
Naphthalene		0.0310	U	0.0310	0.0717
2-Nitroaniline		0.221	U	0.221	0.356
3-Nitroaniline		0.246	U	0.246	0.717
4-Nitroaniline		0.255	U	0.255	0.717
Nitrobenzene		0.215	U	0.215	0.356
2-Nitrophenol		0.260	U	0.260	0.356
4-Nitrophenol		0.409	U	0.409	0.717
N-Nitrosodimethylamine		0.0214	U	0.0214	0.356
N-Nitrosodi-n-propylamine		0.208	U	0.208	0.356
N-Nitrosodiphenylamine		0.0567	U	0.0567	0.356
Pentachlorophenol		0.285	U	0.285	0.717
Phenanthrene		0.158		0.0364	0.0717
Phenol		0.217	U	0.217	0.356
Pyrene		0.214		0.0364	0.0717
Pyridine		0.213	U	0.213	0.717
1,2,4-Trichlorobenzene		0.194	U	0.194	0.356
2,4,5-Trichlorophenol		0.233	U	0.233	0.356
2,4,6-Trichlorophenol		0.205	U	0.205	0.356

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	54		29 - 120
2-Fluorophenol (Surr)	49		10 - 120
Nitrobenzene-d5 (Surr)	51		27 - 120
Phenol-d5 (Surr)	54		10 - 120
Terphenyl-d14 (Surr)	83		13 - 120
2,4,6-Tribromophenol (Surr)	84		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-301-6-7

Lab Sample ID: 490-116559-3 Date Sampled: 11/15/2016 1130
Client Matrix: Solid % Moisture: 10.5 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-11.D
Dilution:	1.0			Initial Weight/Volume:	30.30 g
Analysis Date:	11/29/2016 2014			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0354	U	0.0354	0.0741
Acenaphthylene		0.0321	U	0.0321	0.0741
Aniline		0.280	U	0.280	0.741
Anthracene		0.0373	J	0.0321	0.0741
Benzidine		0.226	U	0.226	0.368
Benzo(a)anthracene		0.141		0.0332	0.0741
Benzo(a)pyrene		0.156		0.0299	0.0741
Benzo(b)fluoranthene		0.173		0.0310	0.0741
Benzo(g,h,i)perylene		0.129		0.0365	0.0741
Benzoic acid		0.0664	U	0.0664	0.368
Benzo(k)fluoranthene		0.0923		0.0299	0.0741
Benzyl alcohol		0.215	U	0.215	0.368
Bis(2-chloroethoxy)methane		0.221	U	0.221	0.368
Bis(2-chloroethyl)ether		0.236	U	0.236	0.368
bis (2-chloroisopropyl) ether		0.219	U	0.219	0.368
Bis(2-ethylhexyl)phthalate		0.229	U	0.229	0.368
4-Bromophenyl phenyl ether		0.227	U	0.227	0.368
Butyl benzyl phthalate		0.238	U	0.238	0.368
Carbazole		0.229	U	0.229	0.368
4-Chloroaniline		0.251	U	0.251	0.368
4-Chloro-3-methylphenol		0.186	U	0.186	0.368
2-Chloronaphthalene		0.231	U	0.231	0.368
2-Chlorophenol		0.211	U	0.211	0.368
4-Chlorophenyl phenyl ether		0.222	U	0.222	0.368
Chrysene		0.167		0.0409	0.0741
Dibenzo(a,h)anthracene		0.0354	U	0.0354	0.0741
Dibenzofuran		0.232	U	0.232	0.368
1,2-Dichlorobenzene		0.210	U	0.210	0.368
1,3-Dichlorobenzene		0.210	U	0.210	0.368
1,4-Dichlorobenzene		0.217	U	0.217	0.368
3,3'-Dichlorobenzidine		0.226	U	0.226	0.741
2,4-Dichlorophenol		0.194	U	0.194	0.368
Diethyl phthalate		0.235	U	0.235	0.368
2,4-Dimethylphenol		0.371	U	0.371	0.741
Dimethyl phthalate		0.229	U	0.229	0.368
Di-n-butyl phthalate		0.233	U	0.233	0.368
4,6-Dinitro-o-cresol		0.253	U	0.253	0.368
2,4-Dinitrophenol		0.278	U	0.278	0.368
2,4-Dinitrotoluene		0.230	U	0.230	0.368
2,6-Dinitrotoluene		0.247	U	0.247	0.368
Di-n-octyl phthalate		0.197	U	0.197	0.368
1,2-Diphenylhydrazine (as Azobenzene)		0.259	U	0.259	0.368
Fluoranthene		0.306		0.0376	0.0741
Fluorene		0.0321	U	0.0321	0.0741
Hexachlorobenzene		0.277	U	0.277	0.368
Hexachlorobutadiene		0.185	U	0.185	0.368

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-301-6-7

Lab Sample ID: 490-116559-3 Date Sampled: 11/15/2016 1130
Client Matrix: Solid % Moisture: 10.5 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-11.D
Dilution:	1.0			Initial Weight/Volume:	30.30 g
Analysis Date:	11/29/2016 2014			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.166	U	0.166	0.368
Hexachloroethane		0.200	U	0.200	0.368
Ideno(1,2,3-cd)pyrene		0.102		0.0321	0.0741
Isophorone		0.208	U	0.208	0.368
1-Methylnaphthalene		0.0310	U	0.0310	0.0741
2-Methylnaphthalene		0.0288	U	0.0288	0.0741
Naphthalene		0.0321	U	0.0321	0.0741
2-Nitroaniline		0.229	U	0.229	0.368
3-Nitroaniline		0.254	U	0.254	0.741
4-Nitroaniline		0.263	U	0.263	0.741
Nitrobenzene		0.222	U	0.222	0.368
2-Nitrophenol		0.269	U	0.269	0.368
4-Nitrophenol		0.423	U	0.423	0.741
N-Nitrosodimethylamine		0.0221	U	0.0221	0.368
N-Nitrosodi-n-propylamine		0.215	U	0.215	0.368
N-Nitrosodiphenylamine		0.0586	U	0.0586	0.368
Pentachlorophenol		0.294	U	0.294	0.741
Phenanthrene		0.203		0.0376	0.0741
Phenol		0.225	U	0.225	0.368
Pyrene		0.342		0.0376	0.0741
Pyridine		0.220	U	0.220	0.741
1,2,4-Trichlorobenzene		0.200	U	0.200	0.368
2,4,5-Trichlorophenol		0.241	U	0.241	0.368
2,4,6-Trichlorophenol		0.212	U	0.212	0.368

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	60		29 - 120
2-Fluorophenol (Surr)	51		10 - 120
Nitrobenzene-d5 (Surr)	55		27 - 120
Phenol-d5 (Surr)	57		10 - 120
Terphenyl-d14 (Surr)	86		13 - 120
2,4,6-Tribromophenol (Surr)	87		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-408

Lab Sample ID: 490-116559-4 Date Sampled: 11/15/2016 0905
Client Matrix: Solid % Moisture: 11.1 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-12.D
Dilution:	1.0			Initial Weight/Volume:	30.07 g
Analysis Date:	11/29/2016 2031			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0359	U	0.0359	0.0752
Acenaphthylene		0.0325	U	0.0325	0.0752
Aniline		0.284	U	0.284	0.752
Anthracene		0.0325	U	0.0325	0.0752
Benzidine		0.229	U	0.229	0.374
Benzo(a)anthracene		0.0337	U	0.0337	0.0752
Benzo(a)pyrene		0.0303	U	0.0303	0.0752
Benzo(b)fluoranthene		0.0314	U	0.0314	0.0752
Benzo(g,h,i)perylene		0.0370	U	0.0370	0.0752
Benzoic acid		0.0673	U	0.0673	0.374
Benzo(k)fluoranthene		0.0303	U	0.0303	0.0752
Benzyl alcohol		0.218	U	0.218	0.374
Bis(2-chloroethoxy)methane		0.224	U	0.224	0.374
Bis(2-chloroethyl)ether		0.239	U	0.239	0.374
bis (2-chloroisopropyl) ether		0.222	U	0.222	0.374
Bis(2-ethylhexyl)phthalate		0.232	U	0.232	0.374
4-Bromophenyl phenyl ether		0.230	U	0.230	0.374
Butyl benzyl phthalate		0.241	U	0.241	0.374
Carbazole		0.232	U	0.232	0.374
4-Chloroaniline		0.255	U	0.255	0.374
4-Chloro-3-methylphenol		0.189	U	0.189	0.374
2-Chloronaphthalene		0.235	U	0.235	0.374
2-Chlorophenol		0.214	U	0.214	0.374
4-Chlorophenyl phenyl ether		0.226	U	0.226	0.374
Chrysene		0.0415	U	0.0415	0.0752
Dibenzo(a,h)anthracene		0.0359	U	0.0359	0.0752
Dibenzofuran		0.236	U	0.236	0.374
1,2-Dichlorobenzene		0.213	U	0.213	0.374
1,3-Dichlorobenzene		0.213	U	0.213	0.374
1,4-Dichlorobenzene		0.220	U	0.220	0.374
3,3'-Dichlorobenzidine		0.229	U	0.229	0.752
2,4-Dichlorophenol		0.196	U	0.196	0.374
Diethyl phthalate		0.238	U	0.238	0.374
2,4-Dimethylphenol		0.376	U	0.376	0.752
Dimethyl phthalate		0.232	U	0.232	0.374
Di-n-butyl phthalate		0.237	U	0.237	0.374
4,6-Dinitro-o-cresol		0.257	U	0.257	0.374
2,4-Dinitrophenol		0.282	U	0.282	0.374
2,4-Dinitrotoluene		0.233	U	0.233	0.374
2,6-Dinitrotoluene		0.250	U	0.250	0.374
Di-n-octyl phthalate		0.200	U	0.200	0.374
1,2-Diphenylhydrazine (as Azobenzene)		0.263	U	0.263	0.374
Fluoranthene		0.0382	U	0.0382	0.0752
Fluorene		0.0325	U	0.0325	0.0752
Hexachlorobenzene		0.281	U	0.281	0.374
Hexachlorobutadiene		0.187	U	0.187	0.374

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-408

Lab Sample ID: 490-116559-4 Date Sampled: 11/15/2016 0905
Client Matrix: Solid % Moisture: 11.1 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-12.D
Dilution:	1.0			Initial Weight/Volume:	30.07 g
Analysis Date:	11/29/2016 2031			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.168	U	0.168	0.374
Hexachloroethane		0.203	U	0.203	0.374
Ideno(1,2,3-cd)pyrene		0.0325	U	0.0325	0.0752
Isophorone		0.211	U	0.211	0.374
1-Methylnaphthalene		0.0314	U	0.0314	0.0752
2-Methylnaphthalene		0.0292	U	0.0292	0.0752
Naphthalene		0.0325	U	0.0325	0.0752
2-Nitroaniline		0.232	U	0.232	0.374
3-Nitroaniline		0.258	U	0.258	0.752
4-Nitroaniline		0.267	U	0.267	0.752
Nitrobenzene		0.226	U	0.226	0.374
2-Nitrophenol		0.273	U	0.273	0.374
4-Nitrophenol		0.429	U	0.429	0.752
N-Nitrosodimethylamine		0.0224	U	0.0224	0.374
N-Nitrosodi-n-propylamine		0.218	U	0.218	0.374
N-Nitrosodiphenylamine		0.0595	U	0.0595	0.374
Pentachlorophenol		0.298	U	0.298	0.752
Phenanthrene		0.0382	U	0.0382	0.0752
Phenol		0.228	U	0.228	0.374
Pyrene		0.0382	U	0.0382	0.0752
Pyridine		0.223	U	0.223	0.752
1,2,4-Trichlorobenzene		0.203	U	0.203	0.374
2,4,5-Trichlorophenol		0.245	U	0.245	0.374
2,4,6-Trichlorophenol		0.215	U	0.215	0.374

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	50		29 - 120
2-Fluorophenol (Surr)	44		10 - 120
Nitrobenzene-d5 (Surr)	47		27 - 120
Phenol-d5 (Surr)	47		10 - 120
Terphenyl-d14 (Surr)	72		13 - 120
2,4,6-Tribromophenol (Surr)	69		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-409

Lab Sample ID: 490-116559-5 Date Sampled: 11/15/2016 0930
Client Matrix: Solid % Moisture: 18.2 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-13.D
Dilution:	1.0			Initial Weight/Volume:	30.48 g
Analysis Date:	11/29/2016 2049			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0385	U	0.0385	0.0807
Acenaphthylene		0.0349	U	0.0349	0.0807
Aniline		0.305	U	0.305	0.807
Anthracene		0.0349	U	0.0349	0.0807
Benzidine		0.246	U	0.246	0.401
Benzo(a)anthracene		0.0361	U	0.0361	0.0807
Benzo(a)pyrene		0.0325	U	0.0325	0.0807
Benzo(b)fluoranthene		0.0337	U	0.0337	0.0807
Benzo(g,h,i)perylene		0.0397	U	0.0397	0.0807
Benzoic acid		0.0722	U	0.0722	0.401
Benzo(k)fluoranthene		0.0325	U	0.0325	0.0807
Benzyl alcohol		0.234	U	0.234	0.401
Bis(2-chloroethoxy)methane		0.241	U	0.241	0.401
Bis(2-chloroethyl)ether		0.256	U	0.256	0.401
bis (2-chloroisopropyl) ether		0.238	U	0.238	0.401
Bis(2-ethylhexyl)phthalate		0.249	U	0.249	0.401
4-Bromophenyl phenyl ether		0.247	U	0.247	0.401
Butyl benzyl phthalate		0.259	U	0.259	0.401
Carbazole		0.249	U	0.249	0.401
4-Chloroaniline		0.273	U	0.273	0.401
4-Chloro-3-methylphenol		0.202	U	0.202	0.401
2-Chloronaphthalene		0.252	U	0.252	0.401
2-Chlorophenol		0.230	U	0.230	0.401
4-Chlorophenyl phenyl ether		0.242	U	0.242	0.401
Chrysene		0.0445	U	0.0445	0.0807
Dibenzo(a,h)anthracene		0.0385	U	0.0385	0.0807
Dibenzofuran		0.253	U	0.253	0.401
1,2-Dichlorobenzene		0.229	U	0.229	0.401
1,3-Dichlorobenzene		0.229	U	0.229	0.401
1,4-Dichlorobenzene		0.236	U	0.236	0.401
3,3'-Dichlorobenzidine		0.246	U	0.246	0.807
2,4-Dichlorophenol		0.211	U	0.211	0.401
Diethyl phthalate		0.255	U	0.255	0.401
2,4-Dimethylphenol		0.403	U	0.403	0.807
Dimethyl phthalate		0.249	U	0.249	0.401
Di-n-butyl phthalate		0.254	U	0.254	0.401
4,6-Dinitro-o-cresol		0.276	U	0.276	0.401
2,4-Dinitrophenol		0.302	U	0.302	0.401
2,4-Dinitrotoluene		0.250	U	0.250	0.401
2,6-Dinitrotoluene		0.268	U	0.268	0.401
Di-n-octyl phthalate		0.214	U	0.214	0.401
1,2-Diphenylhydrazine (as Azobenzene)		0.282	U	0.282	0.401
Fluoranthene		0.0409	U	0.0409	0.0807
Fluorene		0.0349	U	0.0349	0.0807
Hexachlorobenzene		0.301	U	0.301	0.401
Hexachlorobutadiene		0.201	U	0.201	0.401

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-409

Lab Sample ID: 490-116559-5 Date Sampled: 11/15/2016 0930
Client Matrix: Solid % Moisture: 18.2 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-13.D
Dilution:	1.0			Initial Weight/Volume:	30.48 g
Analysis Date:	11/29/2016 2049			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.181	U	0.181	0.401
Hexachloroethane		0.218	U	0.218	0.401
Ideno(1,2,3-cd)pyrene		0.0349	U	0.0349	0.0807
Isophorone		0.226	U	0.226	0.401
1-Methylnaphthalene		0.0337	U	0.0337	0.0807
2-Methylnaphthalene		0.0313	U	0.0313	0.0807
Naphthalene		0.0349	U	0.0349	0.0807
2-Nitroaniline		0.249	U	0.249	0.401
3-Nitroaniline		0.277	U	0.277	0.807
4-Nitroaniline		0.287	U	0.287	0.807
Nitrobenzene		0.242	U	0.242	0.401
2-Nitrophenol		0.293	U	0.293	0.401
4-Nitrophenol		0.460	U	0.460	0.807
N-Nitrosodimethylamine		0.0241	U	0.0241	0.401
N-Nitrosodi-n-propylamine		0.234	U	0.234	0.401
N-Nitrosodiphenylamine		0.0638	U	0.0638	0.401
Pentachlorophenol		0.320	U	0.320	0.807
Phenanthrene		0.0409	U	0.0409	0.0807
Phenol		0.244	U	0.244	0.401
Pyrene		0.0409	U	0.0409	0.0807
Pyridine		0.240	U	0.240	0.807
1,2,4-Trichlorobenzene		0.218	U	0.218	0.401
2,4,5-Trichlorophenol		0.262	U	0.262	0.401
2,4,6-Trichlorophenol		0.231	U	0.231	0.401

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	48		29 - 120
2-Fluorophenol (Surr)	44		10 - 120
Nitrobenzene-d5 (Surr)	46		27 - 120
Phenol-d5 (Surr)	46		10 - 120
Terphenyl-d14 (Surr)	64		13 - 120
2,4,6-Tribromophenol (Surr)	65		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-302-6-7

Lab Sample ID: 490-116559-6 Date Sampled: 11/15/2016 1335
Client Matrix: Solid % Moisture: 12.9 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-14.D
Dilution:	1.0			Initial Weight/Volume:	30.32 g
Analysis Date:	11/29/2016 2107			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0363	U	0.0363	0.0761
Acenaphthylene		0.0329	U	0.0329	0.0761
Aniline		0.287	U	0.287	0.761
Anthracene		0.0329	U	0.0329	0.0761
Benzidine		0.232	U	0.232	0.378
Benzo(a)anthracene		0.0341	U	0.0341	0.0761
Benzo(a)pyrene		0.0307	U	0.0307	0.0761
Benzo(b)fluoranthene		0.0318	U	0.0318	0.0761
Benzo(g,h,i)perylene		0.0375	U	0.0375	0.0761
Benzoic acid		0.0681	U	0.0681	0.378
Benzo(k)fluoranthene		0.0307	U	0.0307	0.0761
Benzyl alcohol		0.220	U	0.220	0.378
Bis(2-chloroethoxy)methane		0.227	U	0.227	0.378
Bis(2-chloroethyl)ether		0.242	U	0.242	0.378
bis (2-chloroisopropyl) ether		0.225	U	0.225	0.378
Bis(2-ethylhexyl)phthalate		0.235	U	0.235	0.378
4-Bromophenyl phenyl ether		0.233	U	0.233	0.378
Butyl benzyl phthalate		0.244	U	0.244	0.378
Carbazole		0.235	U	0.235	0.378
4-Chloroaniline		0.258	U	0.258	0.378
4-Chloro-3-methylphenol		0.191	U	0.191	0.378
2-Chloronaphthalene		0.237	U	0.237	0.378
2-Chlorophenol		0.217	U	0.217	0.378
4-Chlorophenyl phenyl ether		0.228	U	0.228	0.378
Chrysene		0.0420	U	0.0420	0.0761
Dibenzo(a,h)anthracene		0.0363	U	0.0363	0.0761
Dibenzofuran		0.239	U	0.239	0.378
1,2-Dichlorobenzene		0.216	U	0.216	0.378
1,3-Dichlorobenzene		0.216	U	0.216	0.378
1,4-Dichlorobenzene		0.223	U	0.223	0.378
3,3'-Dichlorobenzidine		0.232	U	0.232	0.761
2,4-Dichlorophenol		0.199	U	0.199	0.378
Diethyl phthalate		0.241	U	0.241	0.378
2,4-Dimethylphenol		0.380	U	0.380	0.761
Dimethyl phthalate		0.235	U	0.235	0.378
Di-n-butyl phthalate		0.240	U	0.240	0.378
4,6-Dinitro-o-cresol		0.260	U	0.260	0.378
2,4-Dinitrophenol		0.285	U	0.285	0.378
2,4-Dinitrotoluene		0.236	U	0.236	0.378
2,6-Dinitrotoluene		0.253	U	0.253	0.378
Di-n-octyl phthalate		0.202	U	0.202	0.378
1,2-Diphenylhydrazine (as Azobenzene)		0.266	U	0.266	0.378
Fluoranthene		0.0386	U	0.0386	0.0761
Fluorene		0.0329	U	0.0329	0.0761
Hexachlorobenzene		0.284	U	0.284	0.378
Hexachlorobutadiene		0.190	U	0.190	0.378

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-302-6-7

Lab Sample ID: 490-116559-6 Date Sampled: 11/15/2016 1335
Client Matrix: Solid % Moisture: 12.9 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-14.D
Dilution:	1.0			Initial Weight/Volume:	30.32 g
Analysis Date:	11/29/2016 2107			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.170	U	0.170	0.378
Hexachloroethane		0.206	U	0.206	0.378
Ideno(1,2,3-cd)pyrene		0.0329	U	0.0329	0.0761
Isophorone		0.214	U	0.214	0.378
1-Methylnaphthalene		0.0318	U	0.0318	0.0761
2-Methylnaphthalene		0.0295	U	0.0295	0.0761
Naphthalene		0.0329	U	0.0329	0.0761
2-Nitroaniline		0.235	U	0.235	0.378
3-Nitroaniline		0.261	U	0.261	0.761
4-Nitroaniline		0.270	U	0.270	0.761
Nitrobenzene		0.228	U	0.228	0.378
2-Nitrophenol		0.276	U	0.276	0.378
4-Nitrophenol		0.434	U	0.434	0.761
N-Nitrosodimethylamine		0.0227	U	0.0227	0.378
N-Nitrosodi-n-propylamine		0.220	U	0.220	0.378
N-Nitrosodiphenylamine		0.0602	U	0.0602	0.378
Pentachlorophenol		0.302	U	0.302	0.761
Phenanthrene		0.0386	U	0.0386	0.0761
Phenol		0.231	U	0.231	0.378
Pyrene		0.0386	U	0.0386	0.0761
Pyridine		0.226	U	0.226	0.761
1,2,4-Trichlorobenzene		0.206	U	0.206	0.378
2,4,5-Trichlorophenol		0.248	U	0.248	0.378
2,4,6-Trichlorophenol		0.218	U	0.218	0.378

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	51		29 - 120
2-Fluorophenol (Surr)	48		10 - 120
Nitrobenzene-d5 (Surr)	51		27 - 120
Phenol-d5 (Surr)	53		10 - 120
Terphenyl-d14 (Surr)	72		13 - 120
2,4,6-Tribromophenol (Surr)	71		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-303-6-7

Lab Sample ID: 490-116559-7 Date Sampled: 11/15/2016 1430
Client Matrix: Solid % Moisture: 22.5 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-15.D
Dilution:	1.0			Initial Weight/Volume:	30.11 g
Analysis Date:	11/29/2016 2125			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0411	U	0.0411	0.0861
Acenaphthylene		0.0373	U	0.0373	0.0861
Aniline		0.325	U	0.325	0.861
Anthracene		0.0373	U	0.0373	0.0861
Benzidine		0.262	U	0.262	0.428
Benzo(a)anthracene		0.0385	U	0.0385	0.0861
Benzo(a)pyrene		0.0347	U	0.0347	0.0861
Benzo(b)fluoranthene		0.0360	U	0.0360	0.0861
Benzo(g,h,i)perylene		0.0424	U	0.0424	0.0861
Benzoic acid		0.0771	U	0.0771	0.428
Benzo(k)fluoranthene		0.0347	U	0.0347	0.0861
Benzyl alcohol		0.249	U	0.249	0.428
Bis(2-chloroethoxy)methane		0.257	U	0.257	0.428
Bis(2-chloroethyl)ether		0.274	U	0.274	0.428
bis (2-chloroisopropyl) ether		0.254	U	0.254	0.428
Bis(2-ethylhexyl)phthalate		0.266	U	0.266	0.428
4-Bromophenyl phenyl ether		0.263	U	0.263	0.428
Butyl benzyl phthalate		0.276	U	0.276	0.428
Carbazole		0.266	U	0.266	0.428
4-Chloroaniline		0.292	U	0.292	0.428
4-Chloro-3-methylphenol		0.216	U	0.216	0.428
2-Chloronaphthalene		0.269	U	0.269	0.428
2-Chlorophenol		0.245	U	0.245	0.428
4-Chlorophenyl phenyl ether		0.258	U	0.258	0.428
Chrysene		0.0475	U	0.0475	0.0861
Dibenzo(a,h)anthracene		0.0411	U	0.0411	0.0861
Dibenzofuran		0.270	U	0.270	0.428
1,2-Dichlorobenzene		0.244	U	0.244	0.428
1,3-Dichlorobenzene		0.244	U	0.244	0.428
1,4-Dichlorobenzene		0.252	U	0.252	0.428
3,3'-Dichlorobenzidine		0.262	U	0.262	0.861
2,4-Dichlorophenol		0.225	U	0.225	0.428
Diethyl phthalate		0.272	U	0.272	0.428
2,4-Dimethylphenol		0.430	U	0.430	0.861
Dimethyl phthalate		0.266	U	0.266	0.428
Di-n-butyl phthalate		0.271	U	0.271	0.428
4,6-Dinitro-o-cresol		0.294	U	0.294	0.428
2,4-Dinitrophenol		0.322	U	0.322	0.428
2,4-Dinitrotoluene		0.267	U	0.267	0.428
2,6-Dinitrotoluene		0.287	U	0.287	0.428
Di-n-octyl phthalate		0.229	U	0.229	0.428
1,2-Diphenylhydrazine (as Azobenzene)		0.301	U	0.301	0.428
Fluoranthene		0.0437	U	0.0437	0.0861
Fluorene		0.0373	U	0.0373	0.0861
Hexachlorobenzene		0.321	U	0.321	0.428
Hexachlorobutadiene		0.215	U	0.215	0.428

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-303-6-7

Lab Sample ID: 490-116559-7 Date Sampled: 11/15/2016 1430
Client Matrix: Solid % Moisture: 22.5 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-15.D
Dilution:	1.0			Initial Weight/Volume:	30.11 g
Analysis Date:	11/29/2016 2125			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.193	U	0.193	0.428
Hexachloroethane		0.233	U	0.233	0.428
Ideno(1,2,3-cd)pyrene		0.0373	U	0.0373	0.0861
Isophorone		0.242	U	0.242	0.428
1-Methylnaphthalene		0.0360	U	0.0360	0.0861
2-Methylnaphthalene		0.0334	U	0.0334	0.0861
Naphthalene		0.0373	U	0.0373	0.0861
2-Nitroaniline		0.266	U	0.266	0.428
3-Nitroaniline		0.296	U	0.296	0.861
4-Nitroaniline		0.306	U	0.306	0.861
Nitrobenzene		0.258	U	0.258	0.428
2-Nitrophenol		0.312	U	0.312	0.428
4-Nitrophenol		0.491	U	0.491	0.861
N-Nitrosodimethylamine		0.0257	U	0.0257	0.428
N-Nitrosodi-n-propylamine		0.249	U	0.249	0.428
N-Nitrosodiphenylamine		0.0681	U	0.0681	0.428
Pentachlorophenol		0.342	U	0.342	0.861
Phenanthrene		0.0437	U	0.0437	0.0861
Phenol		0.261	U	0.261	0.428
Pyrene		0.0437	U	0.0437	0.0861
Pyridine		0.256	U	0.256	0.861
1,2,4-Trichlorobenzene		0.233	U	0.233	0.428
2,4,5-Trichlorophenol		0.280	U	0.280	0.428
2,4,6-Trichlorophenol		0.247	U	0.247	0.428

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	51		29 - 120
2-Fluorophenol (Surr)	47		10 - 120
Nitrobenzene-d5 (Surr)	49		27 - 120
Phenol-d5 (Surr)	49		10 - 120
Terphenyl-d14 (Surr)	78		13 - 120
2,4,6-Tribromophenol (Surr)	71		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-304-6-7

Lab Sample ID: 490-116559-8 Date Sampled: 11/16/2016 0900
Client Matrix: Solid % Moisture: 15.9 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-16.D
Dilution:	1.0			Initial Weight/Volume:	30.09 g
Analysis Date:	11/29/2016 2143			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0379	U	0.0379	0.0794
Acenaphthylene		0.0344	U	0.0344	0.0794
Aniline		0.300	U	0.300	0.794
Anthracene		0.0344	U	0.0344	0.0794
Benzidine		0.242	U	0.242	0.395
Benzo(a)anthracene		0.0356	U	0.0356	0.0794
Benzo(a)pyrene		0.0320	U	0.0320	0.0794
Benzo(b)fluoranthene		0.0332	U	0.0332	0.0794
Benzo(g,h,i)perylene		0.0391	U	0.0391	0.0794
Benzoic acid		0.0711	U	0.0711	0.395
Benzo(k)fluoranthene		0.0320	U	0.0320	0.0794
Benzyl alcohol		0.230	U	0.230	0.395
Bis(2-chloroethoxy)methane		0.237	U	0.237	0.395
Bis(2-chloroethyl)ether		0.253	U	0.253	0.395
bis (2-chloroisopropyl) ether		0.235	U	0.235	0.395
Bis(2-ethylhexyl)phthalate		0.245	U	0.245	0.395
4-Bromophenyl phenyl ether		0.243	U	0.243	0.395
Butyl benzyl phthalate		0.255	U	0.255	0.395
Carbazole		0.245	U	0.245	0.395
4-Chloroaniline		0.269	U	0.269	0.395
4-Chloro-3-methylphenol		0.199	U	0.199	0.395
2-Chloronaphthalene		0.248	U	0.248	0.395
2-Chlorophenol		0.226	U	0.226	0.395
4-Chlorophenyl phenyl ether		0.238	U	0.238	0.395
Chrysene		0.0439	U	0.0439	0.0794
Dibenzo(a,h)anthracene		0.0379	U	0.0379	0.0794
Dibenzofuran		0.249	U	0.249	0.395
1,2-Dichlorobenzene		0.225	U	0.225	0.395
1,3-Dichlorobenzene		0.225	U	0.225	0.395
1,4-Dichlorobenzene		0.232	U	0.232	0.395
3,3'-Dichlorobenzidine		0.242	U	0.242	0.794
2,4-Dichlorophenol		0.207	U	0.207	0.395
Diethyl phthalate		0.251	U	0.251	0.395
2,4-Dimethylphenol		0.397	U	0.397	0.794
Dimethyl phthalate		0.245	U	0.245	0.395
Di-n-butyl phthalate		0.250	U	0.250	0.395
4,6-Dinitro-o-cresol		0.271	U	0.271	0.395
2,4-Dinitrophenol		0.298	U	0.298	0.395
2,4-Dinitrotoluene		0.247	U	0.247	0.395
2,6-Dinitrotoluene		0.264	U	0.264	0.395
Di-n-octyl phthalate		0.211	U	0.211	0.395
1,2-Diphenylhydrazine (as Azobenzene)		0.277	U	0.277	0.395
Fluoranthene		0.0403	U	0.0403	0.0794
Fluorene		0.0344	U	0.0344	0.0794
Hexachlorobenzene		0.296	U	0.296	0.395
Hexachlorobutadiene		0.198	U	0.198	0.395

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-304-6-7

Lab Sample ID: 490-116559-8 Date Sampled: 11/16/2016 0900
Client Matrix: Solid % Moisture: 15.9 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-16.D
Dilution:	1.0			Initial Weight/Volume:	30.09 g
Analysis Date:	11/29/2016 2143			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.178	U	0.178	0.395
Hexachloroethane		0.215	U	0.215	0.395
Ideno(1,2,3-cd)pyrene		0.0344	U	0.0344	0.0794
Isophorone		0.223	U	0.223	0.395
1-Methylnaphthalene		0.0332	U	0.0332	0.0794
2-Methylnaphthalene		0.0308	U	0.0308	0.0794
Naphthalene		0.0344	U	0.0344	0.0794
2-Nitroaniline		0.245	U	0.245	0.395
3-Nitroaniline		0.273	U	0.273	0.794
4-Nitroaniline		0.282	U	0.282	0.794
Nitrobenzene		0.238	U	0.238	0.395
2-Nitrophenol		0.288	U	0.288	0.395
4-Nitrophenol		0.453	U	0.453	0.794
N-Nitrosodimethylamine		0.0237	U	0.0237	0.395
N-Nitrosodi-n-propylamine		0.230	U	0.230	0.395
N-Nitrosodiphenylamine		0.0628	U	0.0628	0.395
Pentachlorophenol		0.315	U	0.315	0.794
Phenanthrene		0.0403	U	0.0403	0.0794
Phenol		0.241	U	0.241	0.395
Pyrene		0.0403	U	0.0403	0.0794
Pyridine		0.236	U	0.236	0.794
1,2,4-Trichlorobenzene		0.215	U	0.215	0.395
2,4,5-Trichlorophenol		0.258	U	0.258	0.395
2,4,6-Trichlorophenol		0.228	U	0.228	0.395

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	50		29 - 120
2-Fluorophenol (Surr)	45		10 - 120
Nitrobenzene-d5 (Surr)	46		27 - 120
Phenol-d5 (Surr)	50		10 - 120
Terphenyl-d14 (Surr)	76		13 - 120
2,4,6-Tribromophenol (Surr)	76		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-305-6-7

Lab Sample ID: 490-116559-9 Date Sampled: 11/16/2016 1030
Client Matrix: Solid % Moisture: 19.6 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390980	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	120116-20.D
Dilution:	1.0			Initial Weight/Volume:	30.59 g
Analysis Date:	12/01/2016 1515			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0511	J	0.0390	0.0817
Acenaphthylene		0.0354	U	0.0354	0.0817
Aniline		0.309	U	0.309	0.817
Anthracene		0.0354	U	0.0354	0.0817
Benzidine		0.249	U	0.249	0.406
Benzo(a)anthracene		0.0366	U	0.0366	0.0817
Benzo(a)pyrene		0.0329	U	0.0329	0.0817
Benzo(b)fluoranthene		0.0341	U	0.0341	0.0817
Benzo(g,h,i)perylene		0.0402	U	0.0402	0.0817
Benzoic acid		0.0732	U	0.0732	0.406
Benzo(k)fluoranthene		0.0329	U	0.0329	0.0817
Benzyl alcohol		0.237	U	0.237	0.406
Bis(2-chloroethoxy)methane		0.244	U	0.244	0.406
Bis(2-chloroethyl)ether		0.260	U	0.260	0.406
bis (2-chloroisopropyl) ether		0.241	U	0.241	0.406
Bis(2-ethylhexyl)phthalate		0.252	U	0.252	0.406
4-Bromophenyl phenyl ether		0.250	U	0.250	0.406
Butyl benzyl phthalate		0.262	U	0.262	0.406
Carbazole		0.252	U	0.252	0.406
4-Chloroaniline		0.277	U	0.277	0.406
4-Chloro-3-methylphenol		0.205	U	0.205	0.406
2-Chloronaphthalene		0.255	U	0.255	0.406
2-Chlorophenol		0.233	U	0.233	0.406
4-Chlorophenyl phenyl ether		0.245	U	0.245	0.406
Chrysene		0.0472	J	0.0451	0.0817
Dibenzo(a,h)anthracene		0.0390	U	0.0390	0.0817
Dibenzofuran		0.256	U	0.256	0.406
1,2-Dichlorobenzene		0.232	U	0.232	0.406
1,3-Dichlorobenzene		0.232	U	0.232	0.406
1,4-Dichlorobenzene		0.239	U	0.239	0.406
3,3'-Dichlorobenzidine		0.249	U	0.249	0.817
2,4-Dichlorophenol		0.213	U	0.213	0.406
Diethyl phthalate		0.259	U	0.259	0.406
2,4-Dimethylphenol		0.408	U	0.408	0.817
Dimethyl phthalate		0.252	U	0.252	0.406
Di-n-butyl phthalate		0.257	U	0.257	0.406
4,6-Dinitro-o-cresol		0.279	U	0.279	0.406
2,4-Dinitrophenol		0.306	U	0.306	0.406
2,4-Dinitrotoluene		0.254	U	0.254	0.406
2,6-Dinitrotoluene		0.272	U	0.272	0.406
Di-n-octyl phthalate		0.217	U	0.217	0.406
1,2-Diphenylhydrazine (as Azobenzene)		0.285	U	0.285	0.406
Fluoranthene		0.0415	U	0.0415	0.0817
Fluorene		0.0354	U	0.0354	0.0817
Hexachlorobenzene		0.305	U	0.305	0.406
Hexachlorobutadiene		0.204	U	0.204	0.406

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-305-6-7

Lab Sample ID: 490-116559-9 Date Sampled: 11/16/2016 1030
Client Matrix: Solid % Moisture: 19.6 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390980	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	120116-20.D
Dilution:	1.0			Initial Weight/Volume:	30.59 g
Analysis Date:	12/01/2016 1515			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.183	U	0.183	0.406
Hexachloroethane		0.221	U	0.221	0.406
Ideno(1,2,3-cd)pyrene		0.0354	U	0.0354	0.0817
Isophorone		0.229	U	0.229	0.406
1-Methylnaphthalene		0.0341	U	0.0341	0.0817
2-Methylnaphthalene		0.0317	U	0.0317	0.0817
Naphthalene		0.0354	U	0.0354	0.0817
2-Nitroaniline		0.252	U	0.252	0.406
3-Nitroaniline		0.280	U	0.280	0.817
4-Nitroaniline		0.290	U	0.290	0.817
Nitrobenzene		0.245	U	0.245	0.406
2-Nitrophenol		0.296	U	0.296	0.406
4-Nitrophenol		0.466	U	0.466	0.817
N-Nitrosodimethylamine		0.0244	U	0.0244	0.406
N-Nitrosodi-n-propylamine		0.237	U	0.237	0.406
N-Nitrosodiphenylamine		0.0646	U	0.0646	0.406
Pentachlorophenol		0.324	U	0.324	0.817
Phenanthrene		0.0415	U	0.0415	0.0817
Phenol		0.248	U	0.248	0.406
Pyrene		0.0415	U	0.0415	0.0817
Pyridine		0.243	U	0.243	0.817
1,2,4-Trichlorobenzene		0.221	U	0.221	0.406
2,4,5-Trichlorophenol		0.266	U	0.266	0.406
2,4,6-Trichlorophenol		0.234	U	0.234	0.406

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	69		29 - 120
2-Fluorophenol (Surr)	64		10 - 120
Nitrobenzene-d5 (Surr)	66		27 - 120
Phenol-d5 (Surr)	73		10 - 120
Terphenyl-d14 (Surr)	76		13 - 120
2,4,6-Tribromophenol (Surr)	81		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-306-6-7

Lab Sample ID: 490-116559-10 Date Sampled: 11/16/2016 1000
Client Matrix: Solid % Moisture: 19.4 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-18.D
Dilution:	1.0			Initial Weight/Volume:	30.46 g
Analysis Date:	11/29/2016 2219			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.106		0.0391	0.0818
Acenaphthylene		0.0354	U	0.0354	0.0818
Aniline		0.309	U	0.309	0.818
Anthracene		0.0976		0.0354	0.0818
Benzidine		0.249	U	0.249	0.407
Benzo(a)anthracene		0.0366	U	0.0366	0.0818
Benzo(a)pyrene		0.0330	U	0.0330	0.0818
Benzo(b)fluoranthene		0.0347	J	0.0342	0.0818
Benzo(g,h,i)perylene		0.0403	U	0.0403	0.0818
Benzoic acid		0.0733	U	0.0733	0.407
Benzo(k)fluoranthene		0.0330	U	0.0330	0.0818
Benzyl alcohol		0.237	U	0.237	0.407
Bis(2-chloroethoxy)methane		0.244	U	0.244	0.407
Bis(2-chloroethyl)ether		0.260	U	0.260	0.407
bis (2-chloroisopropyl) ether		0.242	U	0.242	0.407
Bis(2-ethylhexyl)phthalate		0.253	U	0.253	0.407
4-Bromophenyl phenyl ether		0.250	U	0.250	0.407
Butyl benzyl phthalate		0.263	U	0.263	0.407
Carbazole		0.253	U	0.253	0.407
4-Chloroaniline		0.277	U	0.277	0.407
4-Chloro-3-methylphenol		0.205	U	0.205	0.407
2-Chloronaphthalene		0.255	U	0.255	0.407
2-Chlorophenol		0.233	U	0.233	0.407
4-Chlorophenyl phenyl ether		0.245	U	0.245	0.407
Chrysene		0.0452	U	0.0452	0.0818
Dibenzo(a,h)anthracene		0.0391	U	0.0391	0.0818
Dibenzofuran		0.256	U	0.256	0.407
1,2-Dichlorobenzene		0.232	U	0.232	0.407
1,3-Dichlorobenzene		0.232	U	0.232	0.407
1,4-Dichlorobenzene		0.239	U	0.239	0.407
3,3'-Dichlorobenzidine		0.249	U	0.249	0.818
2,4-Dichlorophenol		0.214	U	0.214	0.407
Diethyl phthalate		0.259	U	0.259	0.407
2,4-Dimethylphenol		0.409	U	0.409	0.818
Dimethyl phthalate		0.253	U	0.253	0.407
Di-n-butyl phthalate		0.258	U	0.258	0.407
4,6-Dinitro-o-cresol		0.280	U	0.280	0.407
2,4-Dinitrophenol		0.307	U	0.307	0.407
2,4-Dinitrotoluene		0.254	U	0.254	0.407
2,6-Dinitrotoluene		0.272	U	0.272	0.407
Di-n-octyl phthalate		0.217	U	0.217	0.407
1,2-Diphenylhydrazine (as Azobenzene)		0.286	U	0.286	0.407
Fluoranthene		0.0883		0.0415	0.0818
Fluorene		0.123		0.0354	0.0818
Hexachlorobenzene		0.305	U	0.305	0.407
Hexachlorobutadiene		0.204	U	0.204	0.407

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-306-6-7

Lab Sample ID: 490-116559-10 Date Sampled: 11/16/2016 1000
Client Matrix: Solid % Moisture: 19.4 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-18.D
Dilution:	1.0			Initial Weight/Volume:	30.46 g
Analysis Date:	11/29/2016 2219			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.183	U	0.183	0.407
Hexachloroethane		0.221	U	0.221	0.407
Ideno(1,2,3-cd)pyrene		0.0354	U	0.0354	0.0818
Isophorone		0.230	U	0.230	0.407
1-Methylnaphthalene		0.0342	U	0.0342	0.0818
2-Methylnaphthalene		0.0318	U	0.0318	0.0818
Naphthalene		0.0354	U	0.0354	0.0818
2-Nitroaniline		0.253	U	0.253	0.407
3-Nitroaniline		0.281	U	0.281	0.818
4-Nitroaniline		0.291	U	0.291	0.818
Nitrobenzene		0.245	U	0.245	0.407
2-Nitrophenol		0.297	U	0.297	0.407
4-Nitrophenol		0.467	U	0.467	0.818
N-Nitrosodimethylamine		0.0244	U	0.0244	0.407
N-Nitrosodi-n-propylamine		0.237	U	0.237	0.407
N-Nitrosodiphenylamine		0.0647	U	0.0647	0.407
Pentachlorophenol		0.325	U	0.325	0.818
Phenanthrene		0.0840		0.0415	0.0818
Phenol		0.248	U	0.248	0.407
Pyrene		0.0795	J	0.0415	0.0818
Pyridine		0.243	U	0.243	0.818
1,2,4-Trichlorobenzene		0.221	U	0.221	0.407
2,4,5-Trichlorophenol		0.266	U	0.266	0.407
2,4,6-Trichlorophenol		0.234	U	0.234	0.407

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	62		29 - 120
2-Fluorophenol (Surr)	52		10 - 120
Nitrobenzene-d5 (Surr)	55		27 - 120
Phenol-d5 (Surr)	58		10 - 120
Terphenyl-d14 (Surr)	79		13 - 120
2,4,6-Tribromophenol (Surr)	76		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-307-6-7

Lab Sample ID: 490-116559-11 Date Sampled: 11/17/2016 1030
Client Matrix: Solid % Moisture: 24.0 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-19.D
Dilution:	1.0			Initial Weight/Volume:	30.73 g
Analysis Date:	11/29/2016 2238			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0411	U	0.0411	0.0861
Acenaphthylene		0.0373	U	0.0373	0.0861
Aniline		0.325	U	0.325	0.861
Anthracene		0.0373	U	0.0373	0.0861
Benzidine		0.262	U	0.262	0.428
Benzo(a)anthracene		0.0385	U	0.0385	0.0861
Benzo(a)pyrene		0.0347	U	0.0347	0.0861
Benzo(b)fluoranthene		0.0360	U	0.0360	0.0861
Benzo(g,h,i)perylene		0.0696	J	0.0424	0.0861
Benzoic acid		0.0771	U	0.0771	0.428
Benzo(k)fluoranthene		0.0347	U	0.0347	0.0861
Benzyl alcohol		0.249	U	0.249	0.428
Bis(2-chloroethoxy)methane		0.257	U	0.257	0.428
Bis(2-chloroethyl)ether		0.274	U	0.274	0.428
bis (2-chloroisopropyl) ether		0.254	U	0.254	0.428
Bis(2-ethylhexyl)phthalate		0.266	U	0.266	0.428
4-Bromophenyl phenyl ether		0.263	U	0.263	0.428
Butyl benzyl phthalate		0.276	U	0.276	0.428
Carbazole		0.266	U	0.266	0.428
4-Chloroaniline		0.292	U	0.292	0.428
4-Chloro-3-methylphenol		0.216	U	0.216	0.428
2-Chloronaphthalene		0.269	U	0.269	0.428
2-Chlorophenol		0.245	U	0.245	0.428
4-Chlorophenyl phenyl ether		0.258	U	0.258	0.428
Chrysene		0.0475	U	0.0475	0.0861
Dibenzo(a,h)anthracene		0.0411	U	0.0411	0.0861
Dibenzofuran		0.270	U	0.270	0.428
1,2-Dichlorobenzene		0.244	U	0.244	0.428
1,3-Dichlorobenzene		0.244	U	0.244	0.428
1,4-Dichlorobenzene		0.252	U	0.252	0.428
3,3'-Dichlorobenzidine		0.262	U	0.262	0.861
2,4-Dichlorophenol		0.225	U	0.225	0.428
Diethyl phthalate		0.272	U	0.272	0.428
2,4-Dimethylphenol		0.430	U	0.430	0.861
Dimethyl phthalate		0.266	U	0.266	0.428
Di-n-butyl phthalate		0.271	U	0.271	0.428
4,6-Dinitro-o-cresol		0.294	U	0.294	0.428
2,4-Dinitrophenol		0.322	U	0.322	0.428
2,4-Dinitrotoluene		0.267	U	0.267	0.428
2,6-Dinitrotoluene		0.286	U	0.286	0.428
Di-n-octyl phthalate		0.229	U	0.229	0.428
1,2-Diphenylhydrazine (as Azobenzene)		0.301	U	0.301	0.428
Fluoranthene		0.0437	U	0.0437	0.0861
Fluorene		0.0373	U	0.0373	0.0861
Hexachlorobenzene		0.321	U	0.321	0.428
Hexachlorobutadiene		0.215	U	0.215	0.428

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-307-6-7

Lab Sample ID: 490-116559-11 Date Sampled: 11/17/2016 1030
Client Matrix: Solid % Moisture: 24.0 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-19.D
Dilution:	1.0			Initial Weight/Volume:	30.73 g
Analysis Date:	11/29/2016 2238			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.193	U	0.193	0.428
Hexachloroethane		0.233	U	0.233	0.428
Ideno(1,2,3-cd)pyrene		0.0373	U	0.0373	0.0861
Isophorone		0.242	U	0.242	0.428
1-Methylnaphthalene		0.0360	U	0.0360	0.0861
2-Methylnaphthalene		0.0334	U	0.0334	0.0861
Naphthalene		0.0373	U	0.0373	0.0861
2-Nitroaniline		0.266	U	0.266	0.428
3-Nitroaniline		0.295	U	0.295	0.861
4-Nitroaniline		0.306	U	0.306	0.861
Nitrobenzene		0.258	U	0.258	0.428
2-Nitrophenol		0.312	U	0.312	0.428
4-Nitrophenol		0.491	U	0.491	0.861
N-Nitrosodimethylamine		0.0257	U	0.0257	0.428
N-Nitrosodi-n-propylamine		0.249	U	0.249	0.428
N-Nitrosodiphenylamine		0.0681	U	0.0681	0.428
Pentachlorophenol		0.342	U	0.342	0.861
Phenanthrene		0.0437	U	0.0437	0.0861
Phenol		0.261	U	0.261	0.428
Pyrene		0.0437	U	0.0437	0.0861
Pyridine		0.256	U	0.256	0.861
1,2,4-Trichlorobenzene		0.233	U	0.233	0.428
2,4,5-Trichlorophenol		0.280	U	0.280	0.428
2,4,6-Trichlorophenol		0.247	U	0.247	0.428

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	56		29 - 120
2-Fluorophenol (Surr)	42		10 - 120
Nitrobenzene-d5 (Surr)	45		27 - 120
Phenol-d5 (Surr)	49		10 - 120
Terphenyl-d14 (Surr)	78		13 - 120
2,4,6-Tribromophenol (Surr)	77		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-308-6-7

Lab Sample ID: 490-116560-1 Date Sampled: 11/17/2016 1100
Client Matrix: Solid % Moisture: 20.9 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-20.D
Dilution:	1.0			Initial Weight/Volume:	30.23 g
Analysis Date:	11/29/2016 2255			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.101		0.0401	0.0840
Acenaphthylene		0.0364	U	0.0364	0.0840
Aniline		0.317	U	0.317	0.840
Anthracene		0.0364	U	0.0364	0.0840
Benzidine		0.256	U	0.256	0.418
Benzo(a)anthracene		0.0376	U	0.0376	0.0840
Benzo(a)pyrene		0.0339	U	0.0339	0.0840
Benzo(b)fluoranthene		0.0351	U	0.0351	0.0840
Benzo(g,h,i)perylene		0.0414	U	0.0414	0.0840
Benzoic acid		0.0753	U	0.0753	0.418
Benzo(k)fluoranthene		0.0339	U	0.0339	0.0840
Benzyl alcohol		0.243	U	0.243	0.418
Bis(2-chloroethoxy)methane		0.251	U	0.251	0.418
Bis(2-chloroethyl)ether		0.267	U	0.267	0.418
bis (2-chloroisopropyl) ether		0.248	U	0.248	0.418
Bis(2-ethylhexyl)phthalate		0.260	U	0.260	0.418
4-Bromophenyl phenyl ether		0.257	U	0.257	0.418
Butyl benzyl phthalate		0.270	U	0.270	0.418
Carbazole		0.260	U	0.260	0.418
4-Chloroaniline		0.285	U	0.285	0.418
4-Chloro-3-methylphenol		0.211	U	0.211	0.418
2-Chloronaphthalene		0.262	U	0.262	0.418
2-Chlorophenol		0.240	U	0.240	0.418
4-Chlorophenyl phenyl ether		0.252	U	0.252	0.418
Chrysene		0.0464	U	0.0464	0.0840
Dibenzo(a,h)anthracene		0.0401	U	0.0401	0.0840
Dibenzofuran		0.263	U	0.263	0.418
1,2-Dichlorobenzene		0.238	U	0.238	0.418
1,3-Dichlorobenzene		0.238	U	0.238	0.418
1,4-Dichlorobenzene		0.246	U	0.246	0.418
3,3'-Dichlorobenzidine		0.256	U	0.256	0.840
2,4-Dichlorophenol		0.220	U	0.220	0.418
Diethyl phthalate		0.266	U	0.266	0.418
2,4-Dimethylphenol		0.420	U	0.420	0.840
Dimethyl phthalate		0.260	U	0.260	0.418
Di-n-butyl phthalate		0.265	U	0.265	0.418
4,6-Dinitro-o-cresol		0.287	U	0.287	0.418
2,4-Dinitrophenol		0.315	U	0.315	0.418
2,4-Dinitrotoluene		0.261	U	0.261	0.418
2,6-Dinitrotoluene		0.280	U	0.280	0.418
Di-n-octyl phthalate		0.223	U	0.223	0.418
1,2-Diphenylhydrazine (as Azobenzene)		0.294	U	0.294	0.418
Fluoranthene		0.0634	J	0.0427	0.0840
Fluorene		0.0563	J	0.0364	0.0840
Hexachlorobenzene		0.314	U	0.314	0.418
Hexachlorobutadiene		0.209	U	0.209	0.418

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-308-6-7

Lab Sample ID: 490-116560-1 Date Sampled: 11/17/2016 1100
Client Matrix: Solid % Moisture: 20.9 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-20.D
Dilution:	1.0			Initial Weight/Volume:	30.23 g
Analysis Date:	11/29/2016 2255			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.188	U	0.188	0.418
Hexachloroethane		0.227	U	0.227	0.418
Ideno(1,2,3-cd)pyrene		0.0364	U	0.0364	0.0840
Isophorone		0.236	U	0.236	0.418
1-Methylnaphthalene		0.0351	U	0.0351	0.0840
2-Methylnaphthalene		0.0326	U	0.0326	0.0840
Naphthalene		0.0364	U	0.0364	0.0840
2-Nitroaniline		0.260	U	0.260	0.418
3-Nitroaniline		0.289	U	0.289	0.840
4-Nitroaniline		0.299	U	0.299	0.840
Nitrobenzene		0.252	U	0.252	0.418
2-Nitrophenol		0.305	U	0.305	0.418
4-Nitrophenol		0.479	U	0.479	0.840
N-Nitrosodimethylamine		0.0251	U	0.0251	0.418
N-Nitrosodi-n-propylamine		0.243	U	0.243	0.418
N-Nitrosodiphenylamine		0.0665	U	0.0665	0.418
Pentachlorophenol		0.334	U	0.334	0.840
Phenanthrene		0.0692	J	0.0427	0.0840
Phenol		0.255	U	0.255	0.418
Pyrene		0.0688	J	0.0427	0.0840
Pyridine		0.250	U	0.250	0.840
1,2,4-Trichlorobenzene		0.227	U	0.227	0.418
2,4,5-Trichlorophenol		0.273	U	0.273	0.418
2,4,6-Trichlorophenol		0.241	U	0.241	0.418

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	61		29 - 120
2-Fluorophenol (Surr)	52		10 - 120
Nitrobenzene-d5 (Surr)	54		27 - 120
Phenol-d5 (Surr)	58		10 - 120
Terphenyl-d14 (Surr)	90		13 - 120
2,4,6-Tribromophenol (Surr)	87		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-416

Lab Sample ID: 490-116560-2 Date Sampled: 11/15/2016 1545
Client Matrix: Solid % Moisture: 17.0 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-21.D
Dilution:	1.0			Initial Weight/Volume:	30.52 g
Analysis Date:	11/29/2016 2313			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0379	U	0.0379	0.0793
Acenaphthylene		0.0343	U	0.0343	0.0793
Aniline		0.300	U	0.300	0.793
Anthracene		0.0343	U	0.0343	0.0793
Benzidine		0.241	U	0.241	0.394
Benzo(a)anthracene		0.0711	J	0.0355	0.0793
Benzo(a)pyrene		0.0808		0.0320	0.0793
Benzo(b)fluoranthene		0.124		0.0331	0.0793
Benzo(g,h,i)perylene		0.0762	J	0.0391	0.0793
Benzoic acid		0.0710	U	0.0710	0.394
Benzo(k)fluoranthene		0.0569	J	0.0320	0.0793
Benzyl alcohol		0.230	U	0.230	0.394
Bis(2-chloroethoxy)methane		0.237	U	0.237	0.394
Bis(2-chloroethyl)ether		0.252	U	0.252	0.394
bis (2-chloroisopropyl) ether		0.234	U	0.234	0.394
Bis(2-ethylhexyl)phthalate		0.245	U	0.245	0.394
4-Bromophenyl phenyl ether		0.243	U	0.243	0.394
Butyl benzyl phthalate		0.255	U	0.255	0.394
Carbazole		0.245	U	0.245	0.394
4-Chloroaniline		0.269	U	0.269	0.394
4-Chloro-3-methylphenol		0.199	U	0.199	0.394
2-Chloronaphthalene		0.247	U	0.247	0.394
2-Chlorophenol		0.226	U	0.226	0.394
4-Chlorophenyl phenyl ether		0.238	U	0.238	0.394
Chrysene		0.0914		0.0438	0.0793
Dibenzo(a,h)anthracene		0.0379	U	0.0379	0.0793
Dibenzofuran		0.249	U	0.249	0.394
1,2-Dichlorobenzene		0.225	U	0.225	0.394
1,3-Dichlorobenzene		0.225	U	0.225	0.394
1,4-Dichlorobenzene		0.232	U	0.232	0.394
3,3'-Dichlorobenzidine		0.241	U	0.241	0.793
2,4-Dichlorophenol		0.207	U	0.207	0.394
Diethyl phthalate		0.251	U	0.251	0.394
2,4-Dimethylphenol		0.397	U	0.397	0.793
Dimethyl phthalate		0.245	U	0.245	0.394
Di-n-butyl phthalate		0.250	U	0.250	0.394
4,6-Dinitro-o-cresol		0.271	U	0.271	0.394
2,4-Dinitrophenol		0.297	U	0.297	0.394
2,4-Dinitrotoluene		0.246	U	0.246	0.394
2,6-Dinitrotoluene		0.264	U	0.264	0.394
Di-n-octyl phthalate		0.211	U	0.211	0.394
1,2-Diphenylhydrazine (as Azobenzene)		0.277	U	0.277	0.394
Fluoranthene		0.0976		0.0402	0.0793
Fluorene		0.0343	U	0.0343	0.0793
Hexachlorobenzene		0.296	U	0.296	0.394
Hexachlorobutadiene		0.198	U	0.198	0.394

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-416

Lab Sample ID: 490-116560-2 Date Sampled: 11/15/2016 1545
Client Matrix: Solid % Moisture: 17.0 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-21.D
Dilution:	1.0			Initial Weight/Volume:	30.52 g
Analysis Date:	11/29/2016 2313			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.178	U	0.178	0.394
Hexachloroethane		0.214	U	0.214	0.394
Ideno(1,2,3-cd)pyrene		0.0530	J	0.0343	0.0793
Isophorone		0.223	U	0.223	0.394
1-Methylnaphthalene		0.0331	U	0.0331	0.0793
2-Methylnaphthalene		0.0308	U	0.0308	0.0793
Naphthalene		0.0343	U	0.0343	0.0793
2-Nitroaniline		0.245	U	0.245	0.394
3-Nitroaniline		0.272	U	0.272	0.793
4-Nitroaniline		0.282	U	0.282	0.793
Nitrobenzene		0.238	U	0.238	0.394
2-Nitrophenol		0.288	U	0.288	0.394
4-Nitrophenol		0.452	U	0.452	0.793
N-Nitrosodimethylamine		0.0237	U	0.0237	0.394
N-Nitrosodi-n-propylamine		0.230	U	0.230	0.394
N-Nitrosodiphenylamine		0.0627	U	0.0627	0.394
Pentachlorophenol		0.315	U	0.315	0.793
Phenanthrene		0.0522	J	0.0402	0.0793
Phenol		0.240	U	0.240	0.394
Pyrene		0.105		0.0402	0.0793
Pyridine		0.236	U	0.236	0.793
1,2,4-Trichlorobenzene		0.214	U	0.214	0.394
2,4,5-Trichlorophenol		0.258	U	0.258	0.394
2,4,6-Trichlorophenol		0.227	U	0.227	0.394

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	61		29 - 120
2-Fluorophenol (Surr)	53		10 - 120
Nitrobenzene-d5 (Surr)	55		27 - 120
Phenol-d5 (Surr)	59		10 - 120
Terphenyl-d14 (Surr)	73		13 - 120
2,4,6-Tribromophenol (Surr)	76		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-413

Lab Sample ID: 490-116560-3 Date Sampled: 11/15/2016 1500
Client Matrix: Solid % Moisture: 18.7 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-22.D
Dilution:	1.0			Initial Weight/Volume:	30.26 g
Analysis Date:	11/29/2016 2331			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0390	U	0.0390	0.0817
Acenaphthylene		0.0354	U	0.0354	0.0817
Aniline		0.308	U	0.308	0.817
Anthracene		0.0354	U	0.0354	0.0817
Benzidine		0.249	U	0.249	0.406
Benzo(a)anthracene		0.0366	U	0.0366	0.0817
Benzo(a)pyrene		0.0329	U	0.0329	0.0817
Benzo(b)fluoranthene		0.0341	U	0.0341	0.0817
Benzo(g,h,i)perylene		0.0402	U	0.0402	0.0817
Benzoic acid		0.0731	U	0.0731	0.406
Benzo(k)fluoranthene		0.0329	U	0.0329	0.0817
Benzyl alcohol		0.236	U	0.236	0.406
Bis(2-chloroethoxy)methane		0.244	U	0.244	0.406
Bis(2-chloroethyl)ether		0.260	U	0.260	0.406
bis (2-chloroisopropyl) ether		0.241	U	0.241	0.406
Bis(2-ethylhexyl)phthalate		0.252	U	0.252	0.406
4-Bromophenyl phenyl ether		0.250	U	0.250	0.406
Butyl benzyl phthalate		0.262	U	0.262	0.406
Carbazole		0.252	U	0.252	0.406
4-Chloroaniline		0.277	U	0.277	0.406
4-Chloro-3-methylphenol		0.205	U	0.205	0.406
2-Chloronaphthalene		0.255	U	0.255	0.406
2-Chlorophenol		0.233	U	0.233	0.406
4-Chlorophenyl phenyl ether		0.245	U	0.245	0.406
Chrysene		0.0451	U	0.0451	0.0817
Dibenzo(a,h)anthracene		0.0390	U	0.0390	0.0817
Dibenzofuran		0.256	U	0.256	0.406
1,2-Dichlorobenzene		0.232	U	0.232	0.406
1,3-Dichlorobenzene		0.232	U	0.232	0.406
1,4-Dichlorobenzene		0.239	U	0.239	0.406
3,3'-Dichlorobenzidine		0.249	U	0.249	0.817
2,4-Dichlorophenol		0.213	U	0.213	0.406
Diethyl phthalate		0.258	U	0.258	0.406
2,4-Dimethylphenol		0.408	U	0.408	0.817
Dimethyl phthalate		0.252	U	0.252	0.406
Di-n-butyl phthalate		0.257	U	0.257	0.406
4,6-Dinitro-o-cresol		0.279	U	0.279	0.406
2,4-Dinitrophenol		0.306	U	0.306	0.406
2,4-Dinitrotoluene		0.254	U	0.254	0.406
2,6-Dinitrotoluene		0.272	U	0.272	0.406
Di-n-octyl phthalate		0.217	U	0.217	0.406
1,2-Diphenylhydrazine (as Azobenzene)		0.285	U	0.285	0.406
Fluoranthene		0.0414	U	0.0414	0.0817
Fluorene		0.0354	U	0.0354	0.0817
Hexachlorobenzene		0.305	U	0.305	0.406
Hexachlorobutadiene		0.204	U	0.204	0.406

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-413

Lab Sample ID: 490-116560-3 Date Sampled: 11/15/2016 1500
Client Matrix: Solid % Moisture: 18.7 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-22.D
Dilution:	1.0			Initial Weight/Volume:	30.26 g
Analysis Date:	11/29/2016 2331			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.183	U	0.183	0.406
Hexachloroethane		0.221	U	0.221	0.406
Ideno(1,2,3-cd)pyrene		0.0354	U	0.0354	0.0817
Isophorone		0.229	U	0.229	0.406
1-Methylnaphthalene		0.0341	U	0.0341	0.0817
2-Methylnaphthalene		0.0317	U	0.0317	0.0817
Naphthalene		0.0354	U	0.0354	0.0817
2-Nitroaniline		0.252	U	0.252	0.406
3-Nitroaniline		0.280	U	0.280	0.817
4-Nitroaniline		0.290	U	0.290	0.817
Nitrobenzene		0.245	U	0.245	0.406
2-Nitrophenol		0.296	U	0.296	0.406
4-Nitrophenol		0.466	U	0.466	0.817
N-Nitrosodimethylamine		0.0244	U	0.0244	0.406
N-Nitrosodi-n-propylamine		0.236	U	0.236	0.406
N-Nitrosodiphenylamine		0.0646	U	0.0646	0.406
Pentachlorophenol		0.324	U	0.324	0.817
Phenanthrene		0.0414	U	0.0414	0.0817
Phenol		0.247	U	0.247	0.406
Pyrene		0.0414	U	0.0414	0.0817
Pyridine		0.243	U	0.243	0.817
1,2,4-Trichlorobenzene		0.221	U	0.221	0.406
2,4,5-Trichlorophenol		0.266	U	0.266	0.406
2,4,6-Trichlorophenol		0.234	U	0.234	0.406

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	47		29 - 120
2-Fluorophenol (Surr)	46		10 - 120
Nitrobenzene-d5 (Surr)	46		27 - 120
Phenol-d5 (Surr)	51		10 - 120
Terphenyl-d14 (Surr)	69		13 - 120
2,4,6-Tribromophenol (Surr)	67		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-410

Lab Sample ID: 490-116560-4 Date Sampled: 11/15/2016 1430
Client Matrix: Solid % Moisture: 15.7 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-23.D
Dilution:	1.0			Initial Weight/Volume:	30.48 g
Analysis Date:	11/29/2016 2349			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0374	U	0.0374	0.0783
Acenaphthylene		0.0339	U	0.0339	0.0783
Aniline		0.296	U	0.296	0.783
Anthracene		0.0339	U	0.0339	0.0783
Benzidine		0.238	U	0.238	0.389
Benzo(a)anthracene		0.0350	U	0.0350	0.0783
Benzo(a)pyrene		0.0315	U	0.0315	0.0783
Benzo(b)fluoranthene		0.0327	U	0.0327	0.0783
Benzo(g,h,i)perylene		0.0385	U	0.0385	0.0783
Benzoic acid		0.0701	U	0.0701	0.389
Benzo(k)fluoranthene		0.0315	U	0.0315	0.0783
Benzyl alcohol		0.227	U	0.227	0.389
Bis(2-chloroethoxy)methane		0.234	U	0.234	0.389
Bis(2-chloroethyl)ether		0.249	U	0.249	0.389
bis (2-chloroisopropyl) ether		0.231	U	0.231	0.389
Bis(2-ethylhexyl)phthalate		0.242	U	0.242	0.389
4-Bromophenyl phenyl ether		0.239	U	0.239	0.389
Butyl benzyl phthalate		0.251	U	0.251	0.389
Carbazole		0.242	U	0.242	0.389
4-Chloroaniline		0.265	U	0.265	0.389
4-Chloro-3-methylphenol		0.196	U	0.196	0.389
2-Chloronaphthalene		0.244	U	0.244	0.389
2-Chlorophenol		0.223	U	0.223	0.389
4-Chlorophenyl phenyl ether		0.235	U	0.235	0.389
Chrysene		0.0432	U	0.0432	0.0783
Dibenzo(a,h)anthracene		0.0374	U	0.0374	0.0783
Dibenzofuran		0.245	U	0.245	0.389
1,2-Dichlorobenzene		0.222	U	0.222	0.389
1,3-Dichlorobenzene		0.222	U	0.222	0.389
1,4-Dichlorobenzene		0.229	U	0.229	0.389
3,3'-Dichlorobenzidine		0.238	U	0.238	0.783
2,4-Dichlorophenol		0.204	U	0.204	0.389
Diethyl phthalate		0.248	U	0.248	0.389
2,4-Dimethylphenol		0.391	U	0.391	0.783
Dimethyl phthalate		0.242	U	0.242	0.389
Di-n-butyl phthalate		0.246	U	0.246	0.389
4,6-Dinitro-o-cresol		0.268	U	0.268	0.389
2,4-Dinitrophenol		0.293	U	0.293	0.389
2,4-Dinitrotoluene		0.243	U	0.243	0.389
2,6-Dinitrotoluene		0.260	U	0.260	0.389
Di-n-octyl phthalate		0.208	U	0.208	0.389
1,2-Diphenylhydrazine (as Azobenzene)		0.273	U	0.273	0.389
Fluoranthene		0.0397	U	0.0397	0.0783
Fluorene		0.0339	U	0.0339	0.0783
Hexachlorobenzene		0.292	U	0.292	0.389
Hexachlorobutadiene		0.195	U	0.195	0.389

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-410

Lab Sample ID: 490-116560-4 Date Sampled: 11/15/2016 1430
Client Matrix: Solid % Moisture: 15.7 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-23.D
Dilution:	1.0			Initial Weight/Volume:	30.48 g
Analysis Date:	11/29/2016 2349			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.175	U	0.175	0.389
Hexachloroethane		0.211	U	0.211	0.389
Ideno(1,2,3-cd)pyrene		0.0339	U	0.0339	0.0783
Isophorone		0.220	U	0.220	0.389
1-Methylnaphthalene		0.0327	U	0.0327	0.0783
2-Methylnaphthalene		0.0304	U	0.0304	0.0783
Naphthalene		0.0339	U	0.0339	0.0783
2-Nitroaniline		0.242	U	0.242	0.389
3-Nitroaniline		0.269	U	0.269	0.783
4-Nitroaniline		0.278	U	0.278	0.783
Nitrobenzene		0.235	U	0.235	0.389
2-Nitrophenol		0.284	U	0.284	0.389
4-Nitrophenol		0.446	U	0.446	0.783
N-Nitrosodimethylamine		0.0234	U	0.0234	0.389
N-Nitrosodi-n-propylamine		0.227	U	0.227	0.389
N-Nitrosodiphenylamine		0.0619	U	0.0619	0.389
Pentachlorophenol		0.311	U	0.311	0.783
Phenanthrene		0.0397	U	0.0397	0.0783
Phenol		0.237	U	0.237	0.389
Pyrene		0.0397	U	0.0397	0.0783
Pyridine		0.232	U	0.232	0.783
1,2,4-Trichlorobenzene		0.211	U	0.211	0.389
2,4,5-Trichlorophenol		0.255	U	0.255	0.389
2,4,6-Trichlorophenol		0.224	U	0.224	0.389

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	35		29 - 120
2-Fluorophenol (Surr)	28		10 - 120
Nitrobenzene-d5 (Surr)	31		27 - 120
Phenol-d5 (Surr)	33		10 - 120
Terphenyl-d14 (Surr)	44		13 - 120
2,4,6-Tribromophenol (Surr)	42		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-411

Lab Sample ID: 490-116560-5 Date Sampled: 11/15/2016 1435
Client Matrix: Solid % Moisture: 18.1 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-24.D
Dilution:	1.0			Initial Weight/Volume:	30.95 g
Analysis Date:	11/30/2016 0007			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0379	U	0.0379	0.0793
Acenaphthylene		0.0343	U	0.0343	0.0793
Aniline		0.299	U	0.299	0.793
Anthracene		0.0343	U	0.0343	0.0793
Benzidine		0.241	U	0.241	0.394
Benzo(a)anthracene		0.0355	U	0.0355	0.0793
Benzo(a)pyrene		0.0320	U	0.0320	0.0793
Benzo(b)fluoranthene		0.0331	U	0.0331	0.0793
Benzo(g,h,i)perylene		0.0391	U	0.0391	0.0793
Benzoic acid		0.0740	J	0.0710	0.394
Benzo(k)fluoranthene		0.0320	U	0.0320	0.0793
Benzyl alcohol		0.230	U	0.230	0.394
Bis(2-chloroethoxy)methane		0.237	U	0.237	0.394
Bis(2-chloroethyl)ether		0.252	U	0.252	0.394
bis (2-chloroisopropyl) ether		0.234	U	0.234	0.394
Bis(2-ethylhexyl)phthalate		0.245	U	0.245	0.394
4-Bromophenyl phenyl ether		0.243	U	0.243	0.394
Butyl benzyl phthalate		0.254	U	0.254	0.394
Carbazole		0.245	U	0.245	0.394
4-Chloroaniline		0.269	U	0.269	0.394
4-Chloro-3-methylphenol		0.199	U	0.199	0.394
2-Chloronaphthalene		0.247	U	0.247	0.394
2-Chlorophenol		0.226	U	0.226	0.394
4-Chlorophenyl phenyl ether		0.238	U	0.238	0.394
Chrysene		0.0438	U	0.0438	0.0793
Dibenzo(a,h)anthracene		0.0379	U	0.0379	0.0793
Dibenzofuran		0.249	U	0.249	0.394
1,2-Dichlorobenzene		0.225	U	0.225	0.394
1,3-Dichlorobenzene		0.225	U	0.225	0.394
1,4-Dichlorobenzene		0.232	U	0.232	0.394
3,3'-Dichlorobenzidine		0.241	U	0.241	0.793
2,4-Dichlorophenol		0.207	U	0.207	0.394
Diethyl phthalate		0.251	U	0.251	0.394
2,4-Dimethylphenol		0.396	U	0.396	0.793
Dimethyl phthalate		0.245	U	0.245	0.394
Di-n-butyl phthalate		0.250	U	0.250	0.394
4,6-Dinitro-o-cresol		0.271	U	0.271	0.394
2,4-Dinitrophenol		0.297	U	0.297	0.394
2,4-Dinitrotoluene		0.246	U	0.246	0.394
2,6-Dinitrotoluene		0.264	U	0.264	0.394
Di-n-octyl phthalate		0.211	U	0.211	0.394
1,2-Diphenylhydrazine (as Azobenzene)		0.277	U	0.277	0.394
Fluoranthene		0.0402	U	0.0402	0.0793
Fluorene		0.0343	U	0.0343	0.0793
Hexachlorobenzene		0.296	U	0.296	0.394
Hexachlorobutadiene		0.198	U	0.198	0.394

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-411

Lab Sample ID: 490-116560-5 Date Sampled: 11/15/2016 1435
Client Matrix: Solid % Moisture: 18.1 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-24.D
Dilution:	1.0			Initial Weight/Volume:	30.95 g
Analysis Date:	11/30/2016 0007			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.178	U	0.178	0.394
Hexachloroethane		0.214	U	0.214	0.394
Ideno(1,2,3-cd)pyrene		0.0343	U	0.0343	0.0793
Isophorone		0.222	U	0.222	0.394
1-Methylnaphthalene		0.0331	U	0.0331	0.0793
2-Methylnaphthalene		0.0308	U	0.0308	0.0793
Naphthalene		0.0343	U	0.0343	0.0793
2-Nitroaniline		0.245	U	0.245	0.394
3-Nitroaniline		0.272	U	0.272	0.793
4-Nitroaniline		0.282	U	0.282	0.793
Nitrobenzene		0.238	U	0.238	0.394
2-Nitrophenol		0.288	U	0.288	0.394
4-Nitrophenol		0.452	U	0.452	0.793
N-Nitrosodimethylamine		0.0237	U	0.0237	0.394
N-Nitrosodi-n-propylamine		0.230	U	0.230	0.394
N-Nitrosodiphenylamine		0.0627	U	0.0627	0.394
Pentachlorophenol		0.315	U	0.315	0.793
Phenanthrene		0.0402	U	0.0402	0.0793
Phenol		0.240	U	0.240	0.394
Pyrene		0.0402	U	0.0402	0.0793
Pyridine		0.235	U	0.235	0.793
1,2,4-Trichlorobenzene		0.214	U	0.214	0.394
2,4,5-Trichlorophenol		0.258	U	0.258	0.394
2,4,6-Trichlorophenol		0.227	U	0.227	0.394

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	61		29 - 120
2-Fluorophenol (Surr)	52		10 - 120
Nitrobenzene-d5 (Surr)	56		27 - 120
Phenol-d5 (Surr)	58		10 - 120
Terphenyl-d14 (Surr)	77		13 - 120
2,4,6-Tribromophenol (Surr)	78		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-417

Lab Sample ID: 490-116560-6 Date Sampled: 11/15/2016 1545
Client Matrix: Solid % Moisture: 11.3 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-25.D
Dilution:	1.0			Initial Weight/Volume:	30.16 g
Analysis Date:	11/30/2016 0025			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0359	U	0.0359	0.0751
Acenaphthylene		0.0325	U	0.0325	0.0751
Aniline		0.284	U	0.284	0.751
Anthracene		0.0325	U	0.0325	0.0751
Benzidine		0.229	U	0.229	0.373
Benzo(a)anthracene		0.0336	U	0.0336	0.0751
Benzo(a)pyrene		0.0303	U	0.0303	0.0751
Benzo(b)fluoranthene		0.0314	U	0.0314	0.0751
Benzo(g,h,i)perylene		0.0370	U	0.0370	0.0751
Benzoic acid		0.0673	U	0.0673	0.373
Benzo(k)fluoranthene		0.0303	U	0.0303	0.0751
Benzyl alcohol		0.218	U	0.218	0.373
Bis(2-chloroethoxy)methane		0.224	U	0.224	0.373
Bis(2-chloroethyl)ether		0.239	U	0.239	0.373
bis (2-chloroisopropyl) ether		0.222	U	0.222	0.373
Bis(2-ethylhexyl)phthalate		0.232	U	0.232	0.373
4-Bromophenyl phenyl ether		0.230	U	0.230	0.373
Butyl benzyl phthalate		0.241	U	0.241	0.373
Carbazole		0.232	U	0.232	0.373
4-Chloroaniline		0.255	U	0.255	0.373
4-Chloro-3-methylphenol		0.188	U	0.188	0.373
2-Chloronaphthalene		0.234	U	0.234	0.373
2-Chlorophenol		0.214	U	0.214	0.373
4-Chlorophenyl phenyl ether		0.225	U	0.225	0.373
Chrysene		0.0415	U	0.0415	0.0751
Dibenzo(a,h)anthracene		0.0359	U	0.0359	0.0751
Dibenzofuran		0.236	U	0.236	0.373
1,2-Dichlorobenzene		0.213	U	0.213	0.373
1,3-Dichlorobenzene		0.213	U	0.213	0.373
1,4-Dichlorobenzene		0.220	U	0.220	0.373
3,3'-Dichlorobenzidine		0.229	U	0.229	0.751
2,4-Dichlorophenol		0.196	U	0.196	0.373
Diethyl phthalate		0.238	U	0.238	0.373
2,4-Dimethylphenol		0.376	U	0.376	0.751
Dimethyl phthalate		0.232	U	0.232	0.373
Di-n-butyl phthalate		0.237	U	0.237	0.373
4,6-Dinitro-o-cresol		0.257	U	0.257	0.373
2,4-Dinitrophenol		0.281	U	0.281	0.373
2,4-Dinitrotoluene		0.233	U	0.233	0.373
2,6-Dinitrotoluene		0.250	U	0.250	0.373
Di-n-octyl phthalate		0.200	U	0.200	0.373
1,2-Diphenylhydrazine (as Azobenzene)		0.262	U	0.262	0.373
Fluoranthene		0.0381	U	0.0381	0.0751
Fluorene		0.0325	U	0.0325	0.0751
Hexachlorobenzene		0.280	U	0.280	0.373
Hexachlorobutadiene		0.187	U	0.187	0.373

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-417

Lab Sample ID: 490-116560-6 Date Sampled: 11/15/2016 1545
Client Matrix: Solid % Moisture: 11.3 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-25.D
Dilution:	1.0			Initial Weight/Volume:	30.16 g
Analysis Date:	11/30/2016 0025			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.168	U	0.168	0.373
Hexachloroethane		0.203	U	0.203	0.373
Ideno(1,2,3-cd)pyrene		0.0325	U	0.0325	0.0751
Isophorone		0.211	U	0.211	0.373
1-Methylnaphthalene		0.0314	U	0.0314	0.0751
2-Methylnaphthalene		0.0292	U	0.0292	0.0751
Naphthalene		0.0325	U	0.0325	0.0751
2-Nitroaniline		0.232	U	0.232	0.373
3-Nitroaniline		0.258	U	0.258	0.751
4-Nitroaniline		0.267	U	0.267	0.751
Nitrobenzene		0.225	U	0.225	0.373
2-Nitrophenol		0.273	U	0.273	0.373
4-Nitrophenol		0.428	U	0.428	0.751
N-Nitrosodimethylamine		0.0224	U	0.0224	0.373
N-Nitrosodi-n-propylamine		0.218	U	0.218	0.373
N-Nitrosodiphenylamine		0.0594	U	0.0594	0.373
Pentachlorophenol		0.298	U	0.298	0.751
Phenanthrene		0.0381	U	0.0381	0.0751
Phenol		0.228	U	0.228	0.373
Pyrene		0.0381	U	0.0381	0.0751
Pyridine		0.223	U	0.223	0.751
1,2,4-Trichlorobenzene		0.203	U	0.203	0.373
2,4,5-Trichlorophenol		0.244	U	0.244	0.373
2,4,6-Trichlorophenol		0.215	U	0.215	0.373

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	53		29 - 120
2-Fluorophenol (Surr)	50		10 - 120
Nitrobenzene-d5 (Surr)	50		27 - 120
Phenol-d5 (Surr)	54		10 - 120
Terphenyl-d14 (Surr)	77		13 - 120
2,4,6-Tribromophenol (Surr)	73		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-415

Lab Sample ID: 490-116560-7 Date Sampled: 11/15/2016 1545
Client Matrix: Solid % Moisture: 16.9 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-26.D
Dilution:	1.0			Initial Weight/Volume:	30.23 g
Analysis Date:	11/30/2016 0044			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0382	U	0.0382	0.0800
Acenaphthylene		0.0346	U	0.0346	0.0800
Aniline		0.302	U	0.302	0.800
Anthracene		0.0346	U	0.0346	0.0800
Benzidine		0.244	U	0.244	0.398
Benzo(a)anthracene		0.0358	U	0.0358	0.0800
Benzo(a)pyrene		0.0322	U	0.0322	0.0800
Benzo(b)fluoranthene		0.0334	U	0.0334	0.0800
Benzo(g,h,i)perylene		0.0394	U	0.0394	0.0800
Benzoic acid		0.0717	U	0.0717	0.398
Benzo(k)fluoranthene		0.0322	U	0.0322	0.0800
Benzyl alcohol		0.232	U	0.232	0.398
Bis(2-chloroethoxy)methane		0.239	U	0.239	0.398
Bis(2-chloroethyl)ether		0.254	U	0.254	0.398
bis (2-chloroisopropyl) ether		0.236	U	0.236	0.398
Bis(2-ethylhexyl)phthalate		0.247	U	0.247	0.398
4-Bromophenyl phenyl ether		0.245	U	0.245	0.398
Butyl benzyl phthalate		0.257	U	0.257	0.398
Carbazole		0.247	U	0.247	0.398
4-Chloroaniline		0.271	U	0.271	0.398
4-Chloro-3-methylphenol		0.201	U	0.201	0.398
2-Chloronaphthalene		0.250	U	0.250	0.398
2-Chlorophenol		0.228	U	0.228	0.398
4-Chlorophenyl phenyl ether		0.240	U	0.240	0.398
Chrysene		0.0442	U	0.0442	0.0800
Dibenzo(a,h)anthracene		0.0382	U	0.0382	0.0800
Dibenzofuran		0.251	U	0.251	0.398
1,2-Dichlorobenzene		0.227	U	0.227	0.398
1,3-Dichlorobenzene		0.227	U	0.227	0.398
1,4-Dichlorobenzene		0.234	U	0.234	0.398
3,3'-Dichlorobenzidine		0.244	U	0.244	0.800
2,4-Dichlorophenol		0.209	U	0.209	0.398
Diethyl phthalate		0.253	U	0.253	0.398
2,4-Dimethylphenol		0.400	U	0.400	0.800
Dimethyl phthalate		0.247	U	0.247	0.398
Di-n-butyl phthalate		0.252	U	0.252	0.398
4,6-Dinitro-o-cresol		0.274	U	0.274	0.398
2,4-Dinitrophenol		0.300	U	0.300	0.398
2,4-Dinitrotoluene		0.248	U	0.248	0.398
2,6-Dinitrotoluene		0.266	U	0.266	0.398
Di-n-octyl phthalate		0.213	U	0.213	0.398
1,2-Diphenylhydrazine (as Azobenzene)		0.279	U	0.279	0.398
Fluoranthene		0.0406	U	0.0406	0.0800
Fluorene		0.0346	U	0.0346	0.0800
Hexachlorobenzene		0.299	U	0.299	0.398
Hexachlorobutadiene		0.199	U	0.199	0.398

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-415

Lab Sample ID: 490-116560-7 Date Sampled: 11/15/2016 1545
Client Matrix: Solid % Moisture: 16.9 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-26.D
Dilution:	1.0			Initial Weight/Volume:	30.23 g
Analysis Date:	11/30/2016 0044			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.179	U	0.179	0.398
Hexachloroethane		0.216	U	0.216	0.398
Ideno(1,2,3-cd)pyrene		0.0346	U	0.0346	0.0800
Isophorone		0.225	U	0.225	0.398
1-Methylnaphthalene		0.0334	U	0.0334	0.0800
2-Methylnaphthalene		0.0311	U	0.0311	0.0800
Naphthalene		0.0346	U	0.0346	0.0800
2-Nitroaniline		0.247	U	0.247	0.398
3-Nitroaniline		0.275	U	0.275	0.800
4-Nitroaniline		0.284	U	0.284	0.800
Nitrobenzene		0.240	U	0.240	0.398
2-Nitrophenol		0.290	U	0.290	0.398
4-Nitrophenol		0.456	U	0.456	0.800
N-Nitrosodimethylamine		0.0239	U	0.0239	0.398
N-Nitrosodi-n-propylamine		0.232	U	0.232	0.398
N-Nitrosodiphenylamine		0.0633	U	0.0633	0.398
Pentachlorophenol		0.318	U	0.318	0.800
Phenanthrene		0.0406	U	0.0406	0.0800
Phenol		0.242	U	0.242	0.398
Pyrene		0.0406	U	0.0406	0.0800
Pyridine		0.238	U	0.238	0.800
1,2,4-Trichlorobenzene		0.216	U	0.216	0.398
2,4,5-Trichlorophenol		0.260	U	0.260	0.398
2,4,6-Trichlorophenol		0.229	U	0.229	0.398

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	52		29 - 120
2-Fluorophenol (Surr)	44		10 - 120
Nitrobenzene-d5 (Surr)	46		27 - 120
Phenol-d5 (Surr)	50		10 - 120
Terphenyl-d14 (Surr)	67		13 - 120
2,4,6-Tribromophenol (Surr)	65		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-414

Lab Sample ID: 490-116560-8 Date Sampled: 11/15/2016 1530
Client Matrix: Solid % Moisture: 17.7 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390980	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	120116-19.D
Dilution:	1.0			Initial Weight/Volume:	30.07 g
Analysis Date:	12/01/2016 1457			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0388	U	0.0388	0.0812
Acenaphthylene		0.0352	U	0.0352	0.0812
Aniline		0.307	U	0.307	0.812
Anthracene		0.0352	U	0.0352	0.0812
Benzidine		0.247	U	0.247	0.404
Benzo(a)anthracene		0.0364	U	0.0364	0.0812
Benzo(a)pyrene		0.0327	U	0.0327	0.0812
Benzo(b)fluoranthene		0.0339	U	0.0339	0.0812
Benzo(g,h,i)perylene		0.0400	U	0.0400	0.0812
Benzoic acid		0.0727	U	0.0727	0.404
Benzo(k)fluoranthene		0.0327	U	0.0327	0.0812
Benzyl alcohol		0.235	U	0.235	0.404
Bis(2-chloroethoxy)methane		0.242	U	0.242	0.404
Bis(2-chloroethyl)ether		0.258	U	0.258	0.404
bis (2-chloroisopropyl) ether		0.240	U	0.240	0.404
Bis(2-ethylhexyl)phthalate		0.251	U	0.251	0.404
4-Bromophenyl phenyl ether		0.249	U	0.249	0.404
Butyl benzyl phthalate		0.261	U	0.261	0.404
Carbazole		0.251	U	0.251	0.404
4-Chloroaniline		0.275	U	0.275	0.404
4-Chloro-3-methylphenol		0.204	U	0.204	0.404
2-Chloronaphthalene		0.253	U	0.253	0.404
2-Chlorophenol		0.232	U	0.232	0.404
4-Chlorophenyl phenyl ether		0.244	U	0.244	0.404
Chrysene		0.0449	U	0.0449	0.0812
Dibenzo(a,h)anthracene		0.0388	U	0.0388	0.0812
Dibenzofuran		0.255	U	0.255	0.404
1,2-Dichlorobenzene		0.230	U	0.230	0.404
1,3-Dichlorobenzene		0.230	U	0.230	0.404
1,4-Dichlorobenzene		0.238	U	0.238	0.404
3,3'-Dichlorobenzidine		0.247	U	0.247	0.812
2,4-Dichlorophenol		0.212	U	0.212	0.404
Diethyl phthalate		0.257	U	0.257	0.404
2,4-Dimethylphenol		0.406	U	0.406	0.812
Dimethyl phthalate		0.251	U	0.251	0.404
Di-n-butyl phthalate		0.256	U	0.256	0.404
4,6-Dinitro-o-cresol		0.278	U	0.278	0.404
2,4-Dinitrophenol		0.304	U	0.304	0.404
2,4-Dinitrotoluene		0.252	U	0.252	0.404
2,6-Dinitrotoluene		0.270	U	0.270	0.404
Di-n-octyl phthalate		0.216	U	0.216	0.404
1,2-Diphenylhydrazine (as Azobenzene)		0.284	U	0.284	0.404
Fluoranthene		0.0412	U	0.0412	0.0812
Fluorene		0.0352	U	0.0352	0.0812
Hexachlorobenzene		0.303	U	0.303	0.404
Hexachlorobutadiene		0.202	U	0.202	0.404

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-414

Lab Sample ID: 490-116560-8 Date Sampled: 11/15/2016 1530
Client Matrix: Solid % Moisture: 17.7 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390980	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	120116-19.D
Dilution:	1.0			Initial Weight/Volume:	30.07 g
Analysis Date:	12/01/2016 1457			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.182	U	0.182	0.404
Hexachloroethane		0.219	U	0.219	0.404
Ideno(1,2,3-cd)pyrene		0.0352	U	0.0352	0.0812
Isophorone		0.228	U	0.228	0.404
1-Methylnaphthalene		0.0339	U	0.0339	0.0812
2-Methylnaphthalene		0.0315	U	0.0315	0.0812
Naphthalene		0.0352	U	0.0352	0.0812
2-Nitroaniline		0.251	U	0.251	0.404
3-Nitroaniline		0.279	U	0.279	0.812
4-Nitroaniline		0.289	U	0.289	0.812
Nitrobenzene		0.244	U	0.244	0.404
2-Nitrophenol		0.295	U	0.295	0.404
4-Nitrophenol		0.463	U	0.463	0.812
N-Nitrosodimethylamine		0.0242	U	0.0242	0.404
N-Nitrosodi-n-propylamine		0.235	U	0.235	0.404
N-Nitrosodiphenylamine		0.0642	U	0.0642	0.404
Pentachlorophenol		0.322	U	0.322	0.812
Phenanthrene		0.0412	U	0.0412	0.0812
Phenol		0.246	U	0.246	0.404
Pyrene		0.0412	U	0.0412	0.0812
Pyridine		0.241	U	0.241	0.812
1,2,4-Trichlorobenzene		0.219	U	0.219	0.404
2,4,5-Trichlorophenol		0.264	U	0.264	0.404
2,4,6-Trichlorophenol		0.233	U	0.233	0.404

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	54		29 - 120
2-Fluorophenol (Surr)	43		10 - 120
Nitrobenzene-d5 (Surr)	44		27 - 120
Phenol-d5 (Surr)	50		10 - 120
Terphenyl-d14 (Surr)	78		13 - 120
2,4,6-Tribromophenol (Surr)	80		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-412

Lab Sample ID: 490-116560-9 Date Sampled: 11/15/2016 1500
Client Matrix: Solid % Moisture: 19.8 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-28.D
Dilution:	1.0			Initial Weight/Volume:	30.41 g
Analysis Date:	11/30/2016 0119			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0394	U	0.0394	0.0824
Acenaphthylene		0.0357	U	0.0357	0.0824
Aniline		0.311	U	0.311	0.824
Anthracene		0.0357	U	0.0357	0.0824
Benzidine		0.251	U	0.251	0.410
Benzo(a)anthracene		0.0369	U	0.0369	0.0824
Benzo(a)pyrene		0.0332	U	0.0332	0.0824
Benzo(b)fluoranthene		0.0345	U	0.0345	0.0824
Benzo(g,h,i)perylene		0.0406	U	0.0406	0.0824
Benzoic acid		0.0738	U	0.0738	0.410
Benzo(k)fluoranthene		0.0332	U	0.0332	0.0824
Benzyl alcohol		0.239	U	0.239	0.410
Bis(2-chloroethoxy)methane		0.246	U	0.246	0.410
Bis(2-chloroethyl)ether		0.262	U	0.262	0.410
bis (2-chloroisopropyl) ether		0.244	U	0.244	0.410
Bis(2-ethylhexyl)phthalate		0.255	U	0.255	0.410
4-Bromophenyl phenyl ether		0.252	U	0.252	0.410
Butyl benzyl phthalate		0.265	U	0.265	0.410
Carbazole		0.255	U	0.255	0.410
4-Chloroaniline		0.279	U	0.279	0.410
4-Chloro-3-methylphenol		0.207	U	0.207	0.410
2-Chloronaphthalene		0.257	U	0.257	0.410
2-Chlorophenol		0.235	U	0.235	0.410
4-Chlorophenyl phenyl ether		0.247	U	0.247	0.410
Chrysene		0.0455	U	0.0455	0.0824
Dibenzo(a,h)anthracene		0.0394	U	0.0394	0.0824
Dibenzofuran		0.258	U	0.258	0.410
1,2-Dichlorobenzene		0.234	U	0.234	0.410
1,3-Dichlorobenzene		0.234	U	0.234	0.410
1,4-Dichlorobenzene		0.241	U	0.241	0.410
3,3'-Dichlorobenzidine		0.251	U	0.251	0.824
2,4-Dichlorophenol		0.215	U	0.215	0.410
Diethyl phthalate		0.261	U	0.261	0.410
2,4-Dimethylphenol		0.412	U	0.412	0.824
Dimethyl phthalate		0.255	U	0.255	0.410
Di-n-butyl phthalate		0.260	U	0.260	0.410
4,6-Dinitro-o-cresol		0.282	U	0.282	0.410
2,4-Dinitrophenol		0.309	U	0.309	0.410
2,4-Dinitrotoluene		0.256	U	0.256	0.410
2,6-Dinitrotoluene		0.274	U	0.274	0.410
Di-n-octyl phthalate		0.219	U	0.219	0.410
1,2-Diphenylhydrazine (as Azobenzene)		0.288	U	0.288	0.410
Fluoranthene		0.0418	U	0.0418	0.0824
Fluorene		0.0357	U	0.0357	0.0824
Hexachlorobenzene		0.308	U	0.308	0.410
Hexachlorobutadiene		0.205	U	0.205	0.410

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-412

Lab Sample ID: 490-116560-9 Date Sampled: 11/15/2016 1500
Client Matrix: Solid % Moisture: 19.8 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390541	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-389972	Lab File ID:	112916-28.D
Dilution:	1.0			Initial Weight/Volume:	30.41 g
Analysis Date:	11/30/2016 0119			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.185	U	0.185	0.410
Hexachloroethane		0.223	U	0.223	0.410
Ideno(1,2,3-cd)pyrene		0.0357	U	0.0357	0.0824
Isophorone		0.231	U	0.231	0.410
1-Methylnaphthalene		0.0345	U	0.0345	0.0824
2-Methylnaphthalene		0.0320	U	0.0320	0.0824
Naphthalene		0.0357	U	0.0357	0.0824
2-Nitroaniline		0.255	U	0.255	0.410
3-Nitroaniline		0.283	U	0.283	0.824
4-Nitroaniline		0.293	U	0.293	0.824
Nitrobenzene		0.247	U	0.247	0.410
2-Nitrophenol		0.299	U	0.299	0.410
4-Nitrophenol		0.470	U	0.470	0.824
N-Nitrosodimethylamine		0.0246	U	0.0246	0.410
N-Nitrosodi-n-propylamine		0.239	U	0.239	0.410
N-Nitrosodiphenylamine		0.0652	U	0.0652	0.410
Pentachlorophenol		0.327	U	0.327	0.824
Phenanthrene		0.0418	U	0.0418	0.0824
Phenol		0.250	U	0.250	0.410
Pyrene		0.0418	U	0.0418	0.0824
Pyridine		0.245	U	0.245	0.824
1,2,4-Trichlorobenzene		0.223	U	0.223	0.410
2,4,5-Trichlorophenol		0.268	U	0.268	0.410
2,4,6-Trichlorophenol		0.236	U	0.236	0.410

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	63		29 - 120
2-Fluorophenol (Surr)	54		10 - 120
Nitrobenzene-d5 (Surr)	55		27 - 120
Phenol-d5 (Surr)	62		10 - 120
Terphenyl-d14 (Surr)	79		13 - 120
2,4,6-Tribromophenol (Surr)	80		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-422

Lab Sample ID: 490-116560-10 Date Sampled: 11/17/2016 0945
Client Matrix: Solid % Moisture: 17.4 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390597	Instrument ID:	HP83
Prep Method:	3550C	Prep Batch:	490-389971	Lab File ID:	113016-012.D
Dilution:	5.0			Initial Weight/Volume:	30.56 g
Analysis Date:	11/30/2016 1213			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1756			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.190	U	0.190	0.398
Acenaphthylene		0.257	J	0.172	0.398
Aniline		1.50	U	1.50	3.98
Anthracene		0.172	U	0.172	0.398
Benzidine		1.21	U *	1.21	1.98
Benzo(a)anthracene		0.505		0.178	0.398
Benzo(a)pyrene		0.791		0.161	0.398
Benzo(b)fluoranthene		1.15		0.166	0.398
Benzo(g,h,i)perylene		0.837		0.196	0.398
Benzoic acid		0.357	U *	0.357	1.98
Benzo(k)fluoranthene		0.605		0.161	0.398
Benzyl alcohol		1.15	U	1.15	1.98
Bis(2-chloroethoxy)methane		1.19	U	1.19	1.98
Bis(2-chloroethyl)ether		1.27	U	1.27	1.98
bis (2-chloroisopropyl) ether		1.18	U	1.18	1.98
Bis(2-ethylhexyl)phthalate		1.23	U	1.23	1.98
4-Bromophenyl phenyl ether		1.22	U	1.22	1.98
Butyl benzyl phthalate		1.28	U	1.28	1.98
Carbazole		1.23	U	1.23	1.98
4-Chloroaniline		1.35	U	1.35	1.98
4-Chloro-3-methylphenol		0.999	U	0.999	1.98
2-Chloronaphthalene		1.24	U	1.24	1.98
2-Chlorophenol		1.14	U	1.14	1.98
4-Chlorophenyl phenyl ether		1.20	U	1.20	1.98
Chrysene		0.927		0.220	0.398
Dibenzo(a,h)anthracene		0.190	U	0.190	0.398
Dibenzofuran		1.25	U	1.25	1.98
1,2-Dichlorobenzene		1.13	U	1.13	1.98
1,3-Dichlorobenzene		1.13	U	1.13	1.98
1,4-Dichlorobenzene		1.17	U	1.17	1.98
3,3'-Dichlorobenzidine		1.21	U *	1.21	3.98
2,4-Dichlorophenol		1.04	U	1.04	1.98
Diethyl phthalate		1.26	U	1.26	1.98
2,4-Dimethylphenol		1.99	U	1.99	3.98
Dimethyl phthalate		1.23	U	1.23	1.98
Di-n-butyl phthalate		1.25	U	1.25	1.98
4,6-Dinitro-o-cresol		1.36	U	1.36	1.98
2,4-Dinitrophenol		1.49	U	1.49	1.98
2,4-Dinitrotoluene		1.24	U	1.24	1.98
2,6-Dinitrotoluene		1.33	U	1.33	1.98
Di-n-octyl phthalate		1.06	U	1.06	1.98
1,2-Diphenylhydrazine (as Azobenzene)		1.39	U	1.39	1.98
Fluoranthene		0.957		0.202	0.398
Fluorene		0.172	U	0.172	0.398
Hexachlorobenzene		1.49	U	1.49	1.98
Hexachlorobutadiene		0.993	U	0.993	1.98

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-422

Lab Sample ID: 490-116560-10 Date Sampled: 11/17/2016 0945
Client Matrix: Solid % Moisture: 17.4 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390597	Instrument ID:	HP83
Prep Method:	3550C	Prep Batch:	490-389971	Lab File ID:	113016-012.D
Dilution:	5.0			Initial Weight/Volume:	30.56 g
Analysis Date:	11/30/2016 1213			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1756			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.892	U	0.892	1.98
Hexachloroethane		1.08	U	1.08	1.98
Ideno(1,2,3-cd)pyrene		0.634		0.172	0.398
Isophorone		1.12	U	1.12	1.98
1-Methylnaphthalene		0.166	U	0.166	0.398
2-Methylnaphthalene		0.155	U	0.155	0.398
Naphthalene		0.271	J	0.172	0.398
2-Nitroaniline		1.23	U	1.23	1.98
3-Nitroaniline		1.37	U	1.37	3.98
4-Nitroaniline		1.42	U	1.42	3.98
Nitrobenzene		1.20	U	1.20	1.98
2-Nitrophenol		1.44	U	1.44	1.98
4-Nitrophenol		2.27	U	2.27	3.98
N-Nitrosodimethylamine		0.119	U	0.119	1.98
N-Nitrosodi-n-propylamine		1.15	U	1.15	1.98
N-Nitrosodiphenylamine		0.315	U	0.315	1.98
Pentachlorophenol		1.58	U	1.58	3.98
Phenanthrene		0.206	J	0.202	0.398
Phenol		1.21	U	1.21	1.98
Pyrene		0.960		0.202	0.398
Pyridine		1.18	U	1.18	3.98
1,2,4-Trichlorobenzene		1.08	U	1.08	1.98
2,4,5-Trichlorophenol		1.30	U	1.30	1.98
2,4,6-Trichlorophenol		1.14	U	1.14	1.98

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	64		29 - 120
2-Fluorophenol (Surr)	55		10 - 120
Nitrobenzene-d5 (Surr)	80		27 - 120
Phenol-d5 (Surr)	68		10 - 120
Terphenyl-d14 (Surr)	74		13 - 120
2,4,6-Tribromophenol (Surr)	50		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-421

Lab Sample ID: 490-116560-11 Date Sampled: 11/17/2016 0815
Client Matrix: Solid % Moisture: 10.7 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390597	Instrument ID:	HP83
Prep Method:	3550C	Prep Batch:	490-389971	Lab File ID:	113016-013.D
Dilution:	1.0			Initial Weight/Volume:	30.18 g
Analysis Date:	11/30/2016 1233			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1756			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0356	U	0.0356	0.0746
Acenaphthylene		0.0323	U	0.0323	0.0746
Aniline		0.282	U	0.282	0.746
Anthracene		0.218		0.0323	0.0746
Benzidine		0.227	U *	0.227	0.371
Benzo(a)anthracene		0.176		0.0334	0.0746
Benzo(a)pyrene		0.133		0.0301	0.0746
Benzo(b)fluoranthene		0.0312	U	0.0312	0.0746
Benzo(g,h,i)perylene		0.110		0.0367	0.0746
Benzoic acid		0.0668	U *	0.0668	0.371
Benzo(k)fluoranthene		0.0301	U	0.0301	0.0746
Benzyl alcohol		0.216	U	0.216	0.371
Bis(2-chloroethoxy)methane		0.223	U	0.223	0.371
Bis(2-chloroethyl)ether		0.237	U	0.237	0.371
bis (2-chloroisopropyl) ether		0.220	U	0.220	0.371
Bis(2-ethylhexyl)phthalate		0.231	U	0.231	0.371
4-Bromophenyl phenyl ether		0.228	U	0.228	0.371
Butyl benzyl phthalate		0.239	U	0.239	0.371
Carbazole		0.231	U	0.231	0.371
4-Chloroaniline		0.253	U	0.253	0.371
4-Chloro-3-methylphenol		0.187	U	0.187	0.371
2-Chloronaphthalene		0.233	U	0.233	0.371
2-Chlorophenol		0.213	U	0.213	0.371
4-Chlorophenyl phenyl ether		0.224	U	0.224	0.371
Chrysene		0.291		0.0412	0.0746
Dibenzo(a,h)anthracene		0.0356	U	0.0356	0.0746
Dibenzofuran		0.234	U	0.234	0.371
1,2-Dichlorobenzene		0.212	U	0.212	0.371
1,3-Dichlorobenzene		0.212	U	0.212	0.371
1,4-Dichlorobenzene		0.218	U	0.218	0.371
3,3'-Dichlorobenzidine		0.227	U *	0.227	0.746
2,4-Dichlorophenol		0.195	U	0.195	0.371
Diethyl phthalate		0.236	U	0.236	0.371
2,4-Dimethylphenol		0.373	U	0.373	0.746
Dimethyl phthalate		0.231	U	0.231	0.371
Di-n-butyl phthalate		0.235	U	0.235	0.371
4,6-Dinitro-o-cresol		0.255	U	0.255	0.371
2,4-Dinitrophenol		0.280	U	0.280	0.371
2,4-Dinitrotoluene		0.232	U	0.232	0.371
2,6-Dinitrotoluene		0.248	U	0.248	0.371
Di-n-octyl phthalate		0.198	U	0.198	0.371
1,2-Diphenylhydrazine (as Azobenzene)		0.261	U	0.261	0.371
Fluoranthene		0.274		0.0379	0.0746
Fluorene		0.432		0.0323	0.0746
Hexachlorobenzene		0.278	U	0.278	0.371
Hexachlorobutadiene		0.186	U	0.186	0.371

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-421

Lab Sample ID: 490-116560-11 Date Sampled: 11/17/2016 0815
Client Matrix: Solid % Moisture: 10.7 Date Received: 11/21/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-390597	Instrument ID:	HP83
Prep Method:	3550C	Prep Batch:	490-389971	Lab File ID:	113016-013.D
Dilution:	1.0			Initial Weight/Volume:	30.18 g
Analysis Date:	11/30/2016 1233			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1756			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.167	U	0.167	0.371
Hexachloroethane		0.202	U	0.202	0.371
Ideno(1,2,3-cd)pyrene		0.0398	J	0.0323	0.0746
Isophorone		0.209	U	0.209	0.371
1-Methylnaphthalene		2.19		0.0312	0.0746
2-Methylnaphthalene		0.0766		0.0290	0.0746
Naphthalene		0.0442	J	0.0323	0.0746
2-Nitroaniline		0.231	U	0.231	0.371
3-Nitroaniline		0.256	U	0.256	0.746
4-Nitroaniline		0.265	U	0.265	0.746
Nitrobenzene		0.224	U	0.224	0.371
2-Nitrophenol		0.271	U	0.271	0.371
4-Nitrophenol		0.425	U	0.425	0.746
N-Nitrosodimethylamine		0.0223	U	0.0223	0.371
N-Nitrosodi-n-propylamine		0.216	U	0.216	0.371
N-Nitrosodiphenylamine		0.0590	U	0.0590	0.371
Pentachlorophenol		0.296	U	0.296	0.746
Phenanthrene		1.44		0.0379	0.0746
Phenol		0.226	U	0.226	0.371
Pyrene		0.734		0.0379	0.0746
Pyridine		0.222	U	0.222	0.746
1,2,4-Trichlorobenzene		0.202	U	0.202	0.371
2,4,5-Trichlorophenol		0.243	U	0.243	0.371
2,4,6-Trichlorophenol		0.214	U	0.214	0.371

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	76		29 - 120
2-Fluorophenol (Surr)	53		10 - 120
Nitrobenzene-d5 (Surr)	97		27 - 120
Phenol-d5 (Surr)	69		10 - 120
Terphenyl-d14 (Surr)	92		13 - 120
2,4,6-Tribromophenol (Surr)	80		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-406

Lab Sample ID: 490-116559-1 Date Sampled: 11/14/2016 0930
Client Matrix: Solid % Moisture: 16.7 Date Received: 11/21/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.520 g
Analysis Date:	12/01/2016 0503			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7840		11.5	23.1
Antimony		1.15	U	1.15	11.5
Arsenic		16.5		1.38	2.31
Barium		105		1.15	2.31
Beryllium		0.646	J	0.231	1.15
Cadmium		0.323	J	0.115	1.15
Calcium		1670		115	231
Cobalt		8.79		1.15	2.31
Copper		116		1.27	2.31
Iron		19500		23.1	46.2
Lead		65.2		0.577	1.15
Magnesium		2330		115	231
Nickel		20.4		0.692	2.31
Selenium		2.38		1.27	2.31
Thallium		0.692	U	0.692	2.31
Vanadium		18.1		2.31	11.5
Zinc		47.7		5.77	11.5

Analysis Method:	6010C	Analysis Batch:	490-391586	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_120216-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.520 g
Analysis Date:	12/02/2016 2331			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		12.0		1.04	1.15
Manganese		343		1.15	3.46
Potassium		974		115	231
Silver		0.462	U	0.462	1.15
Sodium		150	U	150	231

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391209	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.615 g
Analysis Date:	12/02/2016 1038			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 0833				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0445	J	0.0351	0.117

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-300-6-7

Lab Sample ID: 490-116559-2 Date Sampled: 11/15/2016 0930
Client Matrix: Solid % Moisture: 8.4 Date Received: 11/21/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.511 g
Analysis Date:	12/01/2016 0509			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5260		10.7	21.4
Antimony		1.07	U	1.07	10.7
Arsenic		7.16		1.28	2.14
Barium		42.5		1.07	2.14
Beryllium		0.256	J	0.214	1.07
Cadmium		0.406	J	0.107	1.07
Calcium		1210		107	214
Cobalt		4.51		1.07	2.14
Copper		29.5		1.17	2.14
Iron		10400		21.4	42.7
Lead		20.2		0.534	1.07
Magnesium		1410		107	214
Nickel		11.2		0.641	2.14
Selenium		1.17	U	1.17	2.14
Thallium		0.641	U	0.641	2.14
Vanadium		8.14	J	2.14	10.7
Zinc		60.1		5.34	10.7

Analysis Method:	6010C	Analysis Batch:	490-391586	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_120216-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.511 g
Analysis Date:	12/02/2016 2336			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		6.28		0.961	1.07
Manganese		862		1.07	3.20
Potassium		268		107	214
Silver		0.427	U	0.427	1.07
Sodium		139	U	139	214

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391209	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.610 g
Analysis Date:	12/02/2016 1040			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 0833				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0322	U	0.0322	0.107

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-301-6-7

Lab Sample ID: 490-116559-3 Date Sampled: 11/15/2016 1130
Client Matrix: Solid % Moisture: 10.5 Date Received: 11/21/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.498 g
Analysis Date:	12/01/2016 0514			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5000		11.2	22.4
Antimony		1.12	U	1.12	11.2
Arsenic		7.90		1.35	2.24
Barium		47.7		1.12	2.24
Beryllium		0.247	J	0.224	1.12
Cadmium		0.494	J	0.112	1.12
Calcium		1560		112	224
Cobalt		4.40		1.12	2.24
Copper		22.2		1.23	2.24
Iron		10700		22.4	44.9
Lead		147		0.561	1.12
Magnesium		1680		112	224
Nickel		11.0		0.673	2.24
Selenium		1.23	U	1.23	2.24
Thallium		0.673	U	0.673	2.24
Vanadium		8.19	J	2.24	11.2
Zinc		92.0		5.61	11.2

Analysis Method:	6010C	Analysis Batch:	490-391586	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_120216-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.498 g
Analysis Date:	12/02/2016 2342			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		6.30		1.01	1.12
Manganese		640		1.12	3.37
Potassium		265		112	224
Silver		0.449	U	0.449	1.12
Sodium		146	U	146	224

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391209	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.595 g
Analysis Date:	12/02/2016 1043			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 0833				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0338	U	0.0338	0.113

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-408

Lab Sample ID: 490-116559-4 Date Sampled: 11/15/2016 0905
Client Matrix: Solid % Moisture: 11.1 Date Received: 11/21/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.525 g
Analysis Date:	12/01/2016 0519			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		8900		10.7	21.4
Antimony		1.07	U	1.07	10.7
Arsenic		12.1		1.29	2.14
Barium		37.8		1.07	2.14
Beryllium		0.493	J	0.214	1.07
Cadmium		0.279	J	0.107	1.07
Calcium		347		107	214
Cobalt		4.78		1.07	2.14
Copper		17.3		1.18	2.14
Iron		13400		21.4	42.8
Lead		13.3		0.536	1.07
Magnesium		1990		107	214
Nickel		14.7		0.643	2.14
Selenium		1.26	J	1.18	2.14
Thallium		0.643	U	0.643	2.14
Vanadium		12.2		2.14	10.7
Zinc		48.5		5.36	10.7

Analysis Method:	6010C	Analysis Batch:	490-391586	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_120216-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.525 g
Analysis Date:	12/02/2016 2347			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		10.0		0.964	1.07
Manganese		111		1.07	3.21
Potassium		486		107	214
Silver		0.428	U	0.428	1.07
Sodium		139	U	139	214

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391209	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.623 g
Analysis Date:	12/02/2016 1046			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 0833				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0325	U	0.0325	0.108

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-409

Lab Sample ID: 490-116559-5 Date Sampled: 11/15/2016 0930
Client Matrix: Solid % Moisture: 18.2 Date Received: 11/21/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.508 g
Analysis Date:	12/01/2016 0535			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		15200		12.0	24.1
Antimony		1.20	U	1.20	12.0
Arsenic		9.46		1.44	2.41
Barium		96.5		1.20	2.41
Beryllium		0.554	J	0.241	1.20
Cadmium		0.265	J	0.120	1.20
Calcium		979		120	241
Cobalt		11.2		1.20	2.41
Copper		8.60		1.32	2.41
Iron		20400		24.1	48.2
Lead		15.4		0.602	1.20
Magnesium		2370		120	241
Nickel		19.5		0.722	2.41
Selenium		2.09	J	1.32	2.41
Thallium		0.722	U	0.722	2.41
Vanadium		19.3		2.41	12.0
Zinc		73.9		6.02	12.0

Analysis Method:	6010C	Analysis Batch:	490-391586	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_120216-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.508 g
Analysis Date:	12/02/2016 2352			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		15.7		1.08	1.20
Manganese		437		1.20	3.61
Potassium		753		120	241
Silver		0.482	U	0.482	1.20
Sodium		157	U	157	241

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391209	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.597 g
Analysis Date:	12/02/2016 1048			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 0833				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0369	U	0.0369	0.123

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-302-6-7

Lab Sample ID: 490-116559-6 Date Sampled: 11/15/2016 1335
Client Matrix: Solid % Moisture: 12.9 Date Received: 11/21/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.511 g
Analysis Date:	12/01/2016 0540			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7490		11.2	22.5
Antimony		1.12	U	1.12	11.2
Arsenic		18.3		1.35	2.25
Barium		43.9		1.12	2.25
Beryllium		0.359	J	0.225	1.12
Cadmium		0.337	J	0.112	1.12
Calcium		1350		112	225
Cobalt		5.66		1.12	2.25
Copper		16.4		1.24	2.25
Iron		13000		22.5	44.9
Lead		16.7		0.562	1.12
Magnesium		2090		112	225
Nickel		14.3		0.674	2.25
Selenium		1.24	U	1.24	2.25
Thallium		0.674	U	0.674	2.25
Vanadium		11.2		2.25	11.2
Zinc		54.5		5.62	11.2

Analysis Method:	6010C	Analysis Batch:	490-391586	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_120216-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.511 g
Analysis Date:	12/02/2016 2357			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		8.74		1.01	1.12
Manganese		841		1.12	3.37
Potassium		381		112	225
Silver		0.449	U	0.449	1.12
Sodium		146	U	146	225

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391209	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.624 g
Analysis Date:	12/02/2016 1051			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 0833				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0331	U	0.0331	0.110

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-303-6-7

Lab Sample ID: 490-116559-7 Date Sampled: 11/15/2016 1430
Client Matrix: Solid % Moisture: 22.5 Date Received: 11/21/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.501 g
Analysis Date:	12/01/2016 0545			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6630		12.9	25.7
Antimony		1.29	U	1.29	12.9
Arsenic		5.33		1.54	2.57
Barium		43.9		1.29	2.57
Beryllium		0.283	J	0.257	1.29
Cadmium		0.463	J	0.129	1.29
Calcium		1180		129	257
Cobalt		5.02		1.29	2.57
Copper		16.4		1.42	2.57
Iron		10100		25.7	51.5
Lead		23.2		0.643	1.29
Magnesium		1780		129	257
Nickel		12.3		0.772	2.57
Selenium		1.42	U	1.42	2.57
Thallium		0.772	U	0.772	2.57
Vanadium		9.32	J	2.57	12.9
Zinc		55.2		6.43	12.9

Analysis Method:	6010C	Analysis Batch:	490-391586	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_120216-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.501 g
Analysis Date:	12/03/2016 0002			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		7.64		1.16	1.29
Manganese		869		1.29	3.86
Potassium		407		129	257
Silver		0.515	U	0.515	1.29
Sodium		167	U	167	257

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391209	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.625 g
Analysis Date:	12/02/2016 1054			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 0833				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0371	U	0.0371	0.124

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-304-6-7

Lab Sample ID: 490-116559-8 Date Sampled: 11/16/2016 0900
Client Matrix: Solid % Moisture: 15.9 Date Received: 11/21/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.502 g
Analysis Date:	12/01/2016 0551			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7220		11.8	23.7
Antimony		1.18	U	1.18	11.8
Arsenic		4.90		1.42	2.37
Barium		50.0		1.18	2.37
Beryllium		0.284	J	0.237	1.18
Cadmium		0.474	J	0.118	1.18
Calcium		451		118	237
Cobalt		5.05		1.18	2.37
Copper		18.7		1.30	2.37
Iron		7250		23.7	47.4
Lead		39.9		0.592	1.18
Magnesium		1530		118	237
Nickel		10.2		0.711	2.37
Selenium		1.30	U	1.30	2.37
Thallium		0.711	U	0.711	2.37
Vanadium		11.4	J	2.37	11.8
Zinc		60.6		5.92	11.8

Analysis Method:	6010C	Analysis Batch:	490-391586	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_120216-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.502 g
Analysis Date:	12/03/2016 0007			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		8.53		1.07	1.18
Manganese		295		1.18	3.55
Potassium		361		118	237
Silver		0.474	U	0.474	1.18
Sodium		154	U	154	237

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391209	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.624 g
Analysis Date:	12/02/2016 1057			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 0833				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0588	J	0.0343	0.114

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-305-6-7

Lab Sample ID: 490-116559-9 Date Sampled: 11/16/2016 1030
Client Matrix: Solid % Moisture: 19.6 Date Received: 11/21/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.515 g
Analysis Date:	12/01/2016 0556			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7030		12.1	24.1
Antimony		1.21	U	1.21	12.1
Arsenic		9.58		1.45	2.41
Barium		71.6		1.21	2.41
Beryllium		0.362	J	0.241	1.21
Cadmium		0.724	J	0.121	1.21
Calcium		1050		121	241
Cobalt		6.40		1.21	2.41
Copper		31.5		1.33	2.41
Iron		9500		24.1	48.3
Lead		93.8		0.604	1.21
Magnesium		1740		121	241
Nickel		12.1		0.724	2.41
Selenium		1.35	J	1.33	2.41
Thallium		0.724	U	0.724	2.41
Vanadium		12.6		2.41	12.1
Zinc		72.5		6.04	12.1

Analysis Method:	6010C	Analysis Batch:	490-391586	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_120216-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.515 g
Analysis Date:	12/03/2016 0023			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		9.90		1.09	1.21
Manganese		125		1.21	3.62
Potassium		282		121	241
Silver		0.483	U	0.483	1.21
Sodium		157	U	157	241

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391209	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.596 g
Analysis Date:	12/02/2016 1105			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 0833				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0714	J	0.0376	0.125

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-306-6-7

Lab Sample ID: 490-116559-10 Date Sampled: 11/16/2016 1000
Client Matrix: Solid % Moisture: 19.4 Date Received: 11/21/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.523 g
Analysis Date:	12/01/2016 0601			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9600		11.9	23.7
Antimony		1.19	U	1.19	11.9
Arsenic		15.9		1.42	2.37
Barium		99.2		1.19	2.37
Beryllium		0.522	J	0.237	1.19
Cadmium		0.569	J	0.119	1.19
Calcium		830		119	237
Cobalt		7.23		1.19	2.37
Copper		77.6		1.30	2.37
Iron		14000		23.7	47.4
Lead		105		0.593	1.19
Magnesium		1840		119	237
Nickel		16.3		0.711	2.37
Selenium		2.04	J	1.30	2.37
Thallium		0.711	U	0.711	2.37
Vanadium		16.7		2.37	11.9
Zinc		106		5.93	11.9

Analysis Method:	6010C	Analysis Batch:	490-391586	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_120216-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.523 g
Analysis Date:	12/03/2016 0028			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		11.6		1.07	1.19
Manganese		509		1.19	3.56
Potassium		484		119	237
Silver		0.474	U	0.474	1.19
Sodium		154	U	154	237

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391209	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.620 g
Analysis Date:	12/02/2016 1108			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 0836				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.138		0.0360	0.120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-307-6-7

Lab Sample ID: 490-116559-11 Date Sampled: 11/17/2016 1030
Client Matrix: Solid % Moisture: 24.0 Date Received: 11/21/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.520 g
Analysis Date:	12/01/2016 0606			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		11400		12.7	25.3
Antimony		1.27	U	1.27	12.7
Arsenic		12.5		1.52	2.53
Barium		109		1.27	2.53
Beryllium		0.531	J	0.253	1.27
Cadmium		0.607	J	0.127	1.27
Calcium		1110		127	253
Cobalt		9.34		1.27	2.53
Copper		66.2		1.39	2.53
Iron		16500		25.3	50.6
Lead		130		0.633	1.27
Magnesium		2110		127	253
Nickel		19.9		0.759	2.53
Selenium		1.59	J	1.39	2.53
Thallium		0.759	U	0.759	2.53
Vanadium		19.1		2.53	12.7
Zinc		136		6.33	12.7

Analysis Method:	6010C	Analysis Batch:	490-391586	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_120216-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.520 g
Analysis Date:	12/03/2016 0033			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		13.7		1.14	1.27
Manganese		369		1.27	3.80
Potassium		710		127	253
Silver		0.506	U	0.506	1.27
Sodium		165	U	165	253

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391309	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.625 g
Analysis Date:	12/02/2016 1347			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 1026				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.369		0.0379	0.126

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: TP-308-6-7

Lab Sample ID: 490-116560-1 Date Sampled: 11/17/2016 1100
Client Matrix: Solid % Moisture: 20.9 Date Received: 11/21/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.515 g
Analysis Date:	12/01/2016 0611			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		13000		12.3	24.5
Antimony		1.23	U	1.23	12.3
Arsenic		7.02		1.47	2.45
Barium		83.2		1.23	2.45
Beryllium		0.466	J	0.245	1.23
Cadmium		0.344	J	0.123	1.23
Calcium		804		123	245
Cobalt		8.59		1.23	2.45
Copper		14.5		1.35	2.45
Iron		16400		24.5	49.1
Lead		24.8		0.614	1.23
Magnesium		2670		123	245
Nickel		17.7		0.736	2.45
Selenium		1.50	J	1.35	2.45
Thallium		0.736	U	0.736	2.45
Vanadium		19.0		2.45	12.3
Zinc		61.9		6.14	12.3

Analysis Method:	6010C	Analysis Batch:	490-391586	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_120216-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.515 g
Analysis Date:	12/03/2016 0038			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		15.2		1.10	1.23
Manganese		464		1.23	3.68
Potassium		641		123	245
Silver		0.491	U	0.491	1.23
Sodium		160	U	160	245

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391309	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.614 g
Analysis Date:	12/02/2016 1232			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 1026				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0682	J	0.0371	0.124

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-416

Lab Sample ID: 490-116560-2 Date Sampled: 11/15/2016 1545
Client Matrix: Solid % Moisture: 17.0 Date Received: 11/21/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.520 g
Analysis Date:	12/01/2016 0616			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		11000		11.6	23.2
Antimony		1.16	U	1.16	11.6
Arsenic		11.3		1.39	2.32
Barium		91.4		1.16	2.32
Beryllium		0.510	J	0.232	1.16
Cadmium		0.440	J	0.116	1.16
Calcium		4460		116	232
Cobalt		6.90		1.16	2.32
Copper		25.2		1.27	2.32
Iron		16200		23.2	46.3
Lead		61.1		0.579	1.16
Magnesium		2210		116	232
Nickel		15.6		0.695	2.32
Selenium		1.85	J	1.27	2.32
Thallium		0.695	U	0.695	2.32
Vanadium		17.9		2.32	11.6
Zinc		74.6		5.79	11.6

Analysis Method:	6010C	Analysis Batch:	490-391586	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_120216-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.520 g
Analysis Date:	12/03/2016 0043			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		14.2		1.04	1.16
Manganese		686		1.16	3.47
Potassium		530		116	232
Silver		0.463	U	0.463	1.16
Sodium		151	U	151	232

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391309	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.624 g
Analysis Date:	12/02/2016 1246			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 1026				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0531	J	0.0347	0.116

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-413

Lab Sample ID: 490-116560-3 Date Sampled: 11/15/2016 1500
Client Matrix: Solid % Moisture: 18.7 Date Received: 11/21/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.501 g
Analysis Date:	12/01/2016 0621			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		12100		12.3	24.5
Antimony		1.23	U	1.23	12.3
Arsenic		9.47		1.47	2.45
Barium		57.8		1.23	2.45
Beryllium		0.515	J	0.245	1.23
Cadmium		0.319	J	0.123	1.23
Calcium		1320		123	245
Cobalt		11.0		1.23	2.45
Copper		12.8		1.35	2.45
Iron		19600		24.5	49.1
Lead		15.6		0.614	1.23
Magnesium		2930		123	245
Nickel		19.5		0.736	2.45
Selenium		1.62	J	1.35	2.45
Thallium		0.736	U	0.736	2.45
Vanadium		16.2		2.45	12.3
Zinc		54.9		6.14	12.3

Analysis Method:	6010C	Analysis Batch:	490-391586	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_120216-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.501 g
Analysis Date:	12/03/2016 0048			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		15.0		1.10	1.23
Manganese		434		1.23	3.68
Potassium		607		123	245
Silver		0.491	U	0.491	1.23
Sodium		160	U	160	245

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391309	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.622 g
Analysis Date:	12/02/2016 1249			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 1026				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0382	J	0.0356	0.119

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-410

Lab Sample ID: 490-116560-4 Date Sampled: 11/15/2016 1430
Client Matrix: Solid % Moisture: 15.7 Date Received: 11/21/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.500 g
Analysis Date:	12/01/2016 0637			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		12800		11.9	23.7
Antimony		1.19	U	1.19	11.9
Arsenic		11.2		1.42	2.37
Barium		55.2		1.19	2.37
Beryllium		0.546	J	0.237	1.19
Cadmium		0.166	J	0.119	1.19
Calcium		456		119	237
Cobalt		9.21		1.19	2.37
Copper		15.1		1.31	2.37
Iron		22800		23.7	47.5
Lead		17.2		0.593	1.19
Magnesium		2940		119	237
Nickel		20.7		0.712	2.37
Selenium		1.88	J	1.31	2.37
Thallium		0.712	U	0.712	2.37
Vanadium		16.2		2.37	11.9
Zinc		60.8		5.93	11.9

Analysis Method:	6010C	Analysis Batch:	490-391586	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390721	Lab File ID:	TALS_120216-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.500 g
Analysis Date:	12/03/2016 0053			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		15.5		1.07	1.19
Manganese		363		1.19	3.56
Potassium		668		119	237
Silver		0.475	U	0.475	1.19
Sodium		154	U	154	237

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391309	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.625 g
Analysis Date:	12/02/2016 1251			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 1026				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0342	U	0.0342	0.114

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-411

Lab Sample ID: 490-116560-5 Date Sampled: 11/15/2016 1435
Client Matrix: Solid % Moisture: 18.1 Date Received: 11/21/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390844	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.513 g
Analysis Date:	11/30/2016 2229			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1623				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		11000		11.9	23.8
Antimony		1.19	U	1.19	11.9
Arsenic		10.8		1.43	2.38
Barium		50.4		1.19	2.38
Beryllium		0.524	J	0.238	1.19
Cadmium		0.119	U	0.119	1.19
Calcium		517		119	238
Cobalt		9.21		1.19	2.38
Copper		15.2		1.31	2.38
Iron		21900		23.8	47.6
Lead		15.7		0.595	1.19
Magnesium		2670		119	238
Nickel		18.8		0.714	2.38
Potassium		510		119	238
Selenium		2.12	J	1.31	2.38
Silver		0.857	J ^	0.476	1.19
Thallium		0.714	U	0.714	2.38
Vanadium		14.9		2.38	11.9
Zinc		57.2		5.95	11.9

Analysis Method:	6010C	Analysis Batch:	490-391154	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-390844	Lab File ID:	TALS_120116-6A.asc
Dilution:	1.0			Initial Weight/Volume:	0.513 g
Analysis Date:	12/01/2016 1419			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1623				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		12.2		1.07	1.19
Manganese		363		1.19	3.57
Sodium		155	U	155	238

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391309	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.599 g
Analysis Date:	12/02/2016 1254			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 1026				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0367	U	0.0367	0.122

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-417

Lab Sample ID: 490-116560-6 Date Sampled: 11/15/2016 1545
Client Matrix: Solid % Moisture: 11.3 Date Received: 11/21/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390844	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.496 g
Analysis Date:	11/30/2016 2234			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1623				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6880		11.4	22.7
Antimony		1.14	U	1.14	11.4
Arsenic		9.61		1.36	2.27
Barium		60.2		1.14	2.27
Beryllium		0.455	J	0.227	1.14
Cadmium		0.273	J	0.114	1.14
Calcium		1060		114	227
Cobalt		6.68		1.14	2.27
Copper		25.2		1.25	2.27
Iron		14100		22.7	45.5
Lead		61.3		0.568	1.14
Magnesium		1570		114	227
Nickel		13.1		0.682	2.27
Potassium		849		114	227
Selenium		1.95	J	1.25	2.27
Silver		0.932	J ^	0.455	1.14
Thallium		0.682	U	0.682	2.27
Vanadium		13.4		2.27	11.4
Zinc		63.1		5.68	11.4

Analysis Method:	6010C	Analysis Batch:	490-391154	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-390844	Lab File ID:	TALS_120116-6A.asc
Dilution:	1.0			Initial Weight/Volume:	0.496 g
Analysis Date:	12/01/2016 1435			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1623				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		6.64		1.02	1.14
Manganese		1940		1.14	3.41
Sodium		148	U	148	227

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391309	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.595 g
Analysis Date:	12/02/2016 1257			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 1026				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0341	U	0.0341	0.114

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-415

Lab Sample ID: 490-116560-7 Date Sampled: 11/15/2016 1545
Client Matrix: Solid % Moisture: 16.9 Date Received: 11/21/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390844	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.508 g
Analysis Date:	11/30/2016 2240			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1623				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		11700		11.8	23.7
Antimony		1.18	U	1.18	11.8
Arsenic		18.6		1.42	2.37
Barium		56.4		1.18	2.37
Beryllium		0.545	J	0.237	1.18
Cadmium		0.118	U	0.118	1.18
Calcium		489		118	237
Cobalt		11.6		1.18	2.37
Copper		14.9		1.30	2.37
Iron		27900		23.7	47.4
Lead		14.6		0.592	1.18
Magnesium		2770		118	237
Nickel		20.2		0.711	2.37
Potassium		593		118	237
Selenium		2.61		1.30	2.37
Silver		1.04	J ^	0.474	1.18
Thallium		0.711	U	0.711	2.37
Vanadium		15.5		2.37	11.8
Zinc		50.4		5.92	11.8

Analysis Method:	6010C	Analysis Batch:	490-391154	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-390844	Lab File ID:	TALS_120116-6A.asc
Dilution:	1.0			Initial Weight/Volume:	0.508 g
Analysis Date:	12/01/2016 1441			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1623				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		12.1		1.07	1.18
Manganese		229		1.18	3.55
Sodium		154	U	154	237

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391309	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.596 g
Analysis Date:	12/02/2016 1259			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 1026				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0363	U	0.0363	0.121

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-414

Lab Sample ID: 490-116560-8 Date Sampled: 11/15/2016 1530
Client Matrix: Solid % Moisture: 17.7 Date Received: 11/21/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390844	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.524 g
Analysis Date:	11/30/2016 2245			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1623				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		15200		11.6	23.2
Antimony		1.16	U	1.16	11.6
Arsenic		14.8		1.39	2.32
Barium		58.0		1.16	2.32
Beryllium		0.626	J	0.232	1.16
Cadmium		0.116	U	0.116	1.16
Calcium		822		116	232
Cobalt		11.9		1.16	2.32
Copper		17.4		1.28	2.32
Iron		27700		23.2	46.4
Lead		16.7		0.580	1.16
Magnesium		3340		116	232
Nickel		21.2		0.696	2.32
Potassium		986		116	232
Selenium		2.62		1.28	2.32
Silver		1.04	J ^	0.464	1.16
Thallium		0.696	U	0.696	2.32
Vanadium		20.8		2.32	11.6
Zinc		58.6		5.80	11.6

Analysis Method:	6010C	Analysis Batch:	490-391154	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-390844	Lab File ID:	TALS_120116-6A.asc
Dilution:	1.0			Initial Weight/Volume:	0.524 g
Analysis Date:	12/01/2016 1446			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1623				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		15.9		1.04	1.16
Manganese		280		1.16	3.48
Sodium		151	U	151	232

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391309	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.623 g
Analysis Date:	12/02/2016 1302			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 1026				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0351	U	0.0351	0.117

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-412

Lab Sample ID: 490-116560-9 Date Sampled: 11/15/2016 1500
Client Matrix: Solid % Moisture: 19.8 Date Received: 11/21/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390844	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.505 g
Analysis Date:	11/30/2016 2250			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1623				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		11400		12.3	24.7
Antimony		1.23	U	1.23	12.3
Arsenic		7.26		1.48	2.47
Barium		66.8		1.23	2.47
Beryllium		0.469	J	0.247	1.23
Cadmium		0.321	J	0.123	1.23
Calcium		1370		123	247
Cobalt		8.69		1.23	2.47
Copper		11.5		1.36	2.47
Iron		14700		24.7	49.4
Lead		13.9		0.617	1.23
Magnesium		2160		123	247
Nickel		15.0		0.741	2.47
Potassium		782		123	247
Selenium		1.63	J	1.36	2.47
Silver		0.543	J ^	0.494	1.23
Thallium		0.741	U	0.741	2.47
Vanadium		17.5		2.47	12.3
Zinc		45.8		6.17	12.3

Analysis Method:	6010C	Analysis Batch:	490-391154	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-390844	Lab File ID:	TALS_120116-6A.asc
Dilution:	1.0			Initial Weight/Volume:	0.505 g
Analysis Date:	12/01/2016 1451			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1623				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		11.6		1.11	1.23
Manganese		334		1.23	3.70
Sodium		161	U	161	247

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391309	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.625 g
Analysis Date:	12/02/2016 1305			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 1026				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0359	U	0.0359	0.120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-422

Lab Sample ID: 490-116560-10 Date Sampled: 11/17/2016 0945
Client Matrix: Solid % Moisture: 17.4 Date Received: 11/21/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390844	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.506 g
Analysis Date:	11/30/2016 2255			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1623				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10600		12.0	23.9
Antimony		1.20	U	1.20	12.0
Arsenic		12.4		1.44	2.39
Barium		76.9		1.20	2.39
Beryllium		0.431	J	0.239	1.20
Cadmium		0.311	J	0.120	1.20
Calcium		829		120	239
Cobalt		6.85		1.20	2.39
Copper		57.4		1.32	2.39
Iron		15500		23.9	47.9
Lead		44.3		0.599	1.20
Magnesium		2320		120	239
Nickel		13.7		0.718	2.39
Potassium		749		120	239
Selenium		1.36	J	1.32	2.39
Silver		0.575	J ^	0.479	1.20
Thallium		0.718	U	0.718	2.39
Vanadium		17.4		2.39	12.0
Zinc		60.4		5.99	12.0

Analysis Method:	6010C	Analysis Batch:	490-391154	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-390844	Lab File ID:	TALS_120116-6A.asc
Dilution:	1.0			Initial Weight/Volume:	0.506 g
Analysis Date:	12/01/2016 1456			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1623				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		11.9		1.08	1.20
Manganese		333		1.20	3.59
Sodium		156	U	156	239

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391309	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.605 g
Analysis Date:	12/02/2016 1308			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 1026				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0510	J	0.0360	0.120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Client Sample ID: END-421

Lab Sample ID: 490-116560-11 Date Sampled: 11/17/2016 0815
Client Matrix: Solid % Moisture: 10.7 Date Received: 11/21/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391031	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390844	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.506 g
Analysis Date:	11/30/2016 2300			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1623				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5480		11.1	22.1
Antimony		1.11	U	1.11	11.1
Arsenic		7.13		1.33	2.21
Barium		52.1		1.11	2.21
Beryllium		0.288	J	0.221	1.11
Cadmium		0.310	J	0.111	1.11
Calcium		739		111	221
Cobalt		4.85		1.11	2.21
Copper		39.2		1.22	2.21
Iron		10200		22.1	44.3
Lead		7.86		0.553	1.11
Magnesium		1360		111	221
Nickel		10.7		0.664	2.21
Potassium		457		111	221
Selenium		1.22	U	1.22	2.21
Silver		0.443	U ^	0.443	1.11
Thallium		0.664	U	0.664	2.21
Vanadium		7.46	J	2.21	11.1
Zinc		42.0		5.53	11.1

Analysis Method:	6010C	Analysis Batch:	490-391154	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-390844	Lab File ID:	TALS_120116-6A.asc
Dilution:	1.0			Initial Weight/Volume:	0.506 g
Analysis Date:	12/01/2016 1501			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1623				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		5.73		0.996	1.11
Manganese		174		1.11	3.32
Sodium		144	U	144	221

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-391382	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-391309	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.600 g
Analysis Date:	12/02/2016 1323			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 1026				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0336	U	0.0336	0.112

General Chemistry

Client Sample ID: **END-406**

Lab Sample ID: 490-116559-1 Date Sampled: 11/14/2016 0930
Client Matrix: Solid Date Received: 11/21/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	83.3		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388813 Analysis Date: 11/22/2016 1059 DryWt Corrected: N

General Chemistry

Client Sample ID: **TP-300-6-7**

Lab Sample ID: 490-116559-2 Date Sampled: 11/15/2016 0930
Client Matrix: Solid Date Received: 11/21/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	91.6		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388813 Analysis Date: 11/22/2016 1059 DryWt Corrected: N

General Chemistry

Client Sample ID: **TP-301-6-7**

Lab Sample ID: 490-116559-3 Date Sampled: 11/15/2016 1130
Client Matrix: Solid Date Received: 11/21/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	89.5		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388813 Analysis Date: 11/22/2016 1059 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-408**

Lab Sample ID: 490-116559-4 Date Sampled: 11/15/2016 0905
Client Matrix: Solid Date Received: 11/21/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	88.9		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388813 Analysis Date: 11/22/2016 1059 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-409**

Lab Sample ID: 490-116559-5 Date Sampled: 11/15/2016 0930
Client Matrix: Solid Date Received: 11/21/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	81.8		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388813 Analysis Date: 11/22/2016 1059 DryWt Corrected: N

General Chemistry

Client Sample ID: **TP-302-6-7**

Lab Sample ID: 490-116559-6 Date Sampled: 11/15/2016 1335
Client Matrix: Solid Date Received: 11/21/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	87.1		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388813 Analysis Date: 11/22/2016 1059 DryWt Corrected: N

General Chemistry

Client Sample ID: **TP-303-6-7**

Lab Sample ID: 490-116559-7 Date Sampled: 11/15/2016 1430
Client Matrix: Solid Date Received: 11/21/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	77.5		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388813 Analysis Date: 11/22/2016 1059 DryWt Corrected: N

General Chemistry

Client Sample ID: **TP-304-6-7**

Lab Sample ID: 490-116559-8 Date Sampled: 11/16/2016 0900
Client Matrix: Solid Date Received: 11/21/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	84.1		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388813 Analysis Date: 11/22/2016 1059 DryWt Corrected: N

General Chemistry

Client Sample ID: **TP-305-6-7**

Lab Sample ID: 490-116559-9 Date Sampled: 11/16/2016 1030
Client Matrix: Solid Date Received: 11/21/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	80.4		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388813 Analysis Date: 11/22/2016 1059 DryWt Corrected: N

General Chemistry

Client Sample ID: **TP-306-6-7**

Lab Sample ID: 490-116559-10 Date Sampled: 11/16/2016 1000
Client Matrix: Solid Date Received: 11/21/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	80.6		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388813 Analysis Date: 11/22/2016 1059 DryWt Corrected: N

General Chemistry

Client Sample ID: **TP-307-6-7**

Lab Sample ID: 490-116559-11 Date Sampled: 11/17/2016 1030
Client Matrix: Solid Date Received: 11/21/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	76.0		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388813 Analysis Date: 11/22/2016 1059 DryWt Corrected: N

General Chemistry

Client Sample ID: **TP-308-6-7**

Lab Sample ID: 490-116560-1 Date Sampled: 11/17/2016 1100
Client Matrix: Solid Date Received: 11/21/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	79.1		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388813 Analysis Date: 11/22/2016 1059 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-416**

Lab Sample ID: 490-116560-2 Date Sampled: 11/15/2016 1545
Client Matrix: Solid Date Received: 11/21/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	83.0		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388813 Analysis Date: 11/22/2016 1059 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-413**

Lab Sample ID: 490-116560-3 Date Sampled: 11/15/2016 1500
Client Matrix: Solid Date Received: 11/21/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	81.3		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388813 Analysis Date: 11/22/2016 1059 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-410**

Lab Sample ID: 490-116560-4 Date Sampled: 11/15/2016 1430
Client Matrix: Solid Date Received: 11/21/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	84.3		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388813 Analysis Date: 11/22/2016 1059 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-411**

Lab Sample ID: 490-116560-5 Date Sampled: 11/15/2016 1435
Client Matrix: Solid Date Received: 11/21/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	81.9		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388813 Analysis Date: 11/22/2016 1059 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-417**

Lab Sample ID: 490-116560-6 Date Sampled: 11/15/2016 1545
Client Matrix: Solid Date Received: 11/21/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	88.7		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388813 Analysis Date: 11/22/2016 1059 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-415**

Lab Sample ID: 490-116560-7 Date Sampled: 11/15/2016 1545
Client Matrix: Solid Date Received: 11/21/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	83.1		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388813 Analysis Date: 11/22/2016 1059 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-414**

Lab Sample ID: 490-116560-8 Date Sampled: 11/15/2016 1530
Client Matrix: Solid Date Received: 11/21/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	82.3		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388813 Analysis Date: 11/22/2016 1059 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-412**

Lab Sample ID: 490-116560-9 Date Sampled: 11/15/2016 1500
Client Matrix: Solid Date Received: 11/21/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	80.2		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388813 Analysis Date: 11/22/2016 1059 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-422**

Lab Sample ID: 490-116560-10 Date Sampled: 11/17/2016 0945
Client Matrix: Solid Date Received: 11/21/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	82.6		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388813 Analysis Date: 11/22/2016 1059 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-421**

Lab Sample ID: 490-116560-11 Date Sampled: 11/17/2016 0815
Client Matrix: Solid Date Received: 11/21/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	89.3		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-388813 Analysis Date: 11/22/2016 1059 DryWt Corrected: N

DATA REPORTING QUALIFIERS

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Analyzed for but not detected.
	E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.
	*	Duplicate RPD exceeds control limits
	J	Indicates an estimated value.
	*	ISTD response or retention time outside acceptable limits
	*	LCS or LCSD is outside acceptance limits.
	*	MS or MSD is outside acceptance limits.
	*	Surrogate is outside acceptance limits.
	B	The analyte was found in an associated blank, as well as in the sample.
	N	This flag indicates the presumptive evidence of a compound.
GC/MS Semi VOA		
	U	Analyzed for but not detected.
	E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.
	J	Indicates an estimated value.
	*	LCS or LCSD is outside acceptance limits.
	*	MS or MSD is outside acceptance limits.
	*	RPD of the LCS and LCSD exceeds the control limits
Metals		
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
	U	Indicates analyzed for but not detected.
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
	J	Sample result is greater than the MDL but below the CRDL
	N	Spiked sample recovery is not within control limits.

QUALITY CONTROL RESULTS

Client: Roux Associates, Inc. Job Number: 490-116559-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 490-388763					
490-116559-11MS	Matrix Spike	T	Solid	5035A	
490-116559-11MSD	Matrix Spike Duplicate	T	Solid	5035A	
Prep Batch: 490-389095					
490-116559-1	END-406	T	Solid	5035A	
490-116560-11	END-421	T	Solid	5035A	
490-116560-11MS	Matrix Spike	T	Solid	5035A	
490-116560-11MSD	Matrix Spike Duplicate	T	Solid	5035A	
Prep Batch: 490-389096					
490-116559-1	END-406	T	Solid	5035A	
490-116559-2	TP-300-6-7	T	Solid	5035A	
490-116559-3	TP-301-6-7	T	Solid	5035A	
490-116559-4	END-408	T	Solid	5035A	
490-116559-5	END-409	T	Solid	5035A	
490-116559-6	TP-302-6-7	T	Solid	5035A	
490-116559-7	TP-303-6-7	T	Solid	5035A	
490-116559-8	TP-304-6-7	T	Solid	5035A	
490-116559-9	TP-305-6-7	T	Solid	5035A	
490-116559-10	TP-306-6-7	T	Solid	5035A	
490-116559-11	TP-307-6-7	T	Solid	5035A	
490-116560-1	TP-308-6-7	T	Solid	5035A	
490-116560-2	END-416	T	Solid	5035A	
490-116560-3	END-413	T	Solid	5035A	
490-116560-4	END-410	T	Solid	5035A	
490-116560-5	END-411	T	Solid	5035A	
490-116560-6	END-417	T	Solid	5035A	
490-116560-7	END-415	T	Solid	5035A	
490-116560-8	END-414	T	Solid	5035A	
490-116560-9	END-412	T	Solid	5035A	
490-116560-10	END-422	T	Solid	5035A	
490-116560-11	END-421	T	Solid	5035A	
Analysis Batch:490-389572					
LCS 490-389572/5	Lab Control Sample	T	Solid	8260C	
LCSD 490-389572/6	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-389572/8	Method Blank	T	Solid	8260C	
490-116560-3	END-413	T	Solid	8260C	490-389096
490-116560-4	END-410	T	Solid	8260C	490-389096
490-116560-5	END-411	T	Solid	8260C	490-389096
490-116561-A-2-B MS	Matrix Spike	T	Solid	8260C	490-389707
490-116561-A-2-C MSD	Matrix Spike Duplicate	T	Solid	8260C	490-389707

Client: Roux Associates, Inc. Job Number: 490-116559-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:490-389677					
LCS 490-389677/3	Lab Control Sample	T	Solid	8260C	
LCSD 490-389677/5	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-389677/9	Method Blank	T	Solid	8260C	
490-116559-1	END-406	T	Solid	8260C	490-389096
490-116559-2	TP-300-6-7	T	Solid	8260C	490-389096
490-116559-3	TP-301-6-7	T	Solid	8260C	490-389096
490-116559-4	END-408	T	Solid	8260C	490-389096
490-116559-5	END-409	T	Solid	8260C	490-389096
490-116559-6	TP-302-6-7	T	Solid	8260C	490-389096
490-116559-7	TP-303-6-7	T	Solid	8260C	490-389096
490-116559-8	TP-304-6-7	T	Solid	8260C	490-389096
490-116559-9	TP-305-6-7	T	Solid	8260C	490-389096
490-116559-10	TP-306-6-7	T	Solid	8260C	490-389096
490-116559-11MS	Matrix Spike	T	Solid	8260C	490-388763
490-116559-11MSD	Matrix Spike Duplicate	T	Solid	8260C	490-388763
490-116559-11	TP-307-6-7	T	Solid	8260C	490-389096
Prep Batch: 490-389707					
490-116561-A-2-B MS	Matrix Spike	T	Solid	5035A	
490-116561-A-2-C MSD	Matrix Spike Duplicate	T	Solid	5035A	
Analysis Batch:490-389824					
LCS 490-389824/3	Lab Control Sample	T	Solid	8260C	
LCSD 490-389824/4	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-389824/6	Method Blank	T	Solid	8260C	
490-116560-1	TP-308-6-7	T	Solid	8260C	490-389096
490-116560-2	END-416	T	Solid	8260C	490-389096
490-116560-6	END-417	T	Solid	8260C	490-389096
490-116560-7	END-415	T	Solid	8260C	490-389096
490-116560-8	END-414	T	Solid	8260C	490-389096
490-116560-8MS	Matrix Spike	T	Solid	8260C	490-389909
490-116560-8MSD	Matrix Spike Duplicate	T	Solid	8260C	490-389909
490-116560-9	END-412	T	Solid	8260C	490-389096
490-116560-10	END-422	T	Solid	8260C	490-389096
490-116560-11	END-421	T	Solid	8260C	490-389096
Prep Batch: 490-389909					
490-116560-8MS	Matrix Spike	T	Solid	5035A	
490-116560-8MSD	Matrix Spike Duplicate	T	Solid	5035A	
Analysis Batch:490-389914					
LCS 490-389914/5	Lab Control Sample	T	Solid	8260C	
LCSD 490-389914/6	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-389914/8	Method Blank	T	Solid	8260C	
490-116560-11	END-421	T	Solid	8260C	490-389095

Client: Roux Associates, Inc. Job Number: 490-116559-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:490-390019					
LCS 490-390019/23	Lab Control Sample	T	Solid	8260C	
LCS 490-390019/4	Lab Control Sample	T	Solid	8260C	
LCSD 490-390019/24	Lab Control Sample Duplicate	T	Solid	8260C	
LCSD 490-390019/5	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-390019/8	Method Blank	T	Solid	8260C	
MB 490-390019/9	Method Blank	T	Solid	8260C	
490-116559-1	END-406	T	Solid	8260C	490-389095
490-116559-2	TP-300-6-7	T	Solid	8260C	490-389096
490-116559-3	TP-301-6-7	T	Solid	8260C	490-389096
490-116559-4	END-408	T	Solid	8260C	490-389096
490-116559-5	END-409	T	Solid	8260C	490-389096
490-116559-6	TP-302-6-7	T	Solid	8260C	490-389096
490-116559-7	TP-303-6-7	T	Solid	8260C	490-389096
490-116559-8	TP-304-6-7	T	Solid	8260C	490-389096
490-116559-9	TP-305-6-7	T	Solid	8260C	490-389096
490-116559-10	TP-306-6-7	T	Solid	8260C	490-389096
490-116559-11	TP-307-6-7	T	Solid	8260C	490-389096
Analysis Batch:490-390303					
LCS 490-390303/3	Lab Control Sample	T	Solid	8260C	
LCSD 490-390303/4	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-390303/6	Method Blank	T	Solid	8260C	
490-116560-11MS	Matrix Spike	T	Solid	8260C	490-389095
490-116560-11MSD	Matrix Spike Duplicate	T	Solid	8260C	490-389095

Report Basis
T = Total

Client: Roux Associates, Inc. Job Number: 490-116559-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 490-389971					
LCS 490-389971/2-A	Lab Control Sample	T	Solid	3550C	
LCSD 490-389971/4-A	Lab Control Sample Duplicate	T	Solid	3550C	
MB 490-389971/1-A	Method Blank	T	Solid	3550C	
490-116560-10	END-422	T	Solid	3550C	
490-116560-11	END-421	T	Solid	3550C	
490-116560-11MS	Matrix Spike	T	Solid	3550C	
490-116560-11MSD	Matrix Spike Duplicate	T	Solid	3550C	
Prep Batch: 490-389972					
LCS 490-389972/2-A	Lab Control Sample	T	Solid	3550C	
MB 490-389972/1-A	Method Blank	T	Solid	3550C	
490-116559-1	END-406	T	Solid	3550C	
490-116559-1MS	Matrix Spike	T	Solid	3550C	
490-116559-1MSD	Matrix Spike Duplicate	T	Solid	3550C	
490-116559-2	TP-300-6-7	T	Solid	3550C	
490-116559-3	TP-301-6-7	T	Solid	3550C	
490-116559-4	END-408	T	Solid	3550C	
490-116559-5	END-409	T	Solid	3550C	
490-116559-6	TP-302-6-7	T	Solid	3550C	
490-116559-7	TP-303-6-7	T	Solid	3550C	
490-116559-8	TP-304-6-7	T	Solid	3550C	
490-116559-9	TP-305-6-7	T	Solid	3550C	
490-116559-10	TP-306-6-7	T	Solid	3550C	
490-116559-11	TP-307-6-7	T	Solid	3550C	
490-116560-1	TP-308-6-7	T	Solid	3550C	
490-116560-2	END-416	T	Solid	3550C	
490-116560-3	END-413	T	Solid	3550C	
490-116560-4	END-410	T	Solid	3550C	
490-116560-5	END-411	T	Solid	3550C	
490-116560-6	END-417	T	Solid	3550C	
490-116560-7	END-415	T	Solid	3550C	
490-116560-8	END-414	T	Solid	3550C	
490-116560-9	END-412	T	Solid	3550C	
Analysis Batch:490-390308					
LCS 490-389971/2-A	Lab Control Sample	T	Solid	8270D	490-389971
LCSD 490-389971/4-A	Lab Control Sample Duplicate	T	Solid	8270D	490-389971
MB 490-389971/1-A	Method Blank	T	Solid	8270D	490-389971

Client: Roux Associates, Inc. Job Number: 490-116559-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:490-390541					
LCS 490-389972/2-A	Lab Control Sample	T	Solid	8270D	490-389972
MB 490-389972/1-A	Method Blank	T	Solid	8270D	490-389972
490-116559-1	END-406	T	Solid	8270D	490-389972
490-116559-1MS	Matrix Spike	T	Solid	8270D	490-389972
490-116559-1MSD	Matrix Spike Duplicate	T	Solid	8270D	490-389972
490-116559-2	TP-300-6-7	T	Solid	8270D	490-389972
490-116559-3	TP-301-6-7	T	Solid	8270D	490-389972
490-116559-4	END-408	T	Solid	8270D	490-389972
490-116559-5	END-409	T	Solid	8270D	490-389972
490-116559-6	TP-302-6-7	T	Solid	8270D	490-389972
490-116559-7	TP-303-6-7	T	Solid	8270D	490-389972
490-116559-8	TP-304-6-7	T	Solid	8270D	490-389972
490-116559-10	TP-306-6-7	T	Solid	8270D	490-389972
490-116559-11	TP-307-6-7	T	Solid	8270D	490-389972
490-116560-1	TP-308-6-7	T	Solid	8270D	490-389972
490-116560-2	END-416	T	Solid	8270D	490-389972
490-116560-3	END-413	T	Solid	8270D	490-389972
490-116560-4	END-410	T	Solid	8270D	490-389972
490-116560-5	END-411	T	Solid	8270D	490-389972
490-116560-6	END-417	T	Solid	8270D	490-389972
490-116560-7	END-415	T	Solid	8270D	490-389972
490-116560-9	END-412	T	Solid	8270D	490-389972
Analysis Batch:490-390597					
490-116560-10	END-422	T	Solid	8270D	490-389971
490-116560-11	END-421	T	Solid	8270D	490-389971
490-116560-11MS	Matrix Spike	T	Solid	8270D	490-389971
490-116560-11MSD	Matrix Spike Duplicate	T	Solid	8270D	490-389971
Analysis Batch:490-390980					
490-116559-9	TP-305-6-7	T	Solid	8270D	490-389972
490-116560-8	END-414	T	Solid	8270D	490-389972

Report Basis
T = Total

Client: Roux Associates, Inc. Job Number: 490-116559-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 490-390721					
LCS 490-390721/2-A	Lab Control Sample	T	Solid	3051A	
MB 490-390721/1-A	Method Blank	T	Solid	3051A	
490-116544-B-17-C MS	Matrix Spike	T	Solid	3051A	
490-116544-B-17-D MSD	Matrix Spike Duplicate	T	Solid	3051A	
490-116559-1	END-406	T	Solid	3051A	
490-116559-2	TP-300-6-7	T	Solid	3051A	
490-116559-3	TP-301-6-7	T	Solid	3051A	
490-116559-4	END-408	T	Solid	3051A	
490-116559-5	END-409	T	Solid	3051A	
490-116559-6	TP-302-6-7	T	Solid	3051A	
490-116559-7	TP-303-6-7	T	Solid	3051A	
490-116559-8	TP-304-6-7	T	Solid	3051A	
490-116559-9	TP-305-6-7	T	Solid	3051A	
490-116559-10	TP-306-6-7	T	Solid	3051A	
490-116559-11	TP-307-6-7	T	Solid	3051A	
490-116560-1	TP-308-6-7	T	Solid	3051A	
490-116560-2	END-416	T	Solid	3051A	
490-116560-3	END-413	T	Solid	3051A	
490-116560-4	END-410	T	Solid	3051A	
Prep Batch: 490-390844					
LCS 490-390844/2-A	Lab Control Sample	T	Solid	3051A	
MB 490-390844/1-A	Method Blank	T	Solid	3051A	
490-116416-G-1-D MS	Matrix Spike	T	Solid	3051A	
490-116416-G-1-E MSD	Matrix Spike Duplicate	T	Solid	3051A	
490-116560-5	END-411	T	Solid	3051A	
490-116560-6	END-417	T	Solid	3051A	
490-116560-7	END-415	T	Solid	3051A	
490-116560-8	END-414	T	Solid	3051A	
490-116560-9	END-412	T	Solid	3051A	
490-116560-10	END-422	T	Solid	3051A	
490-116560-11	END-421	T	Solid	3051A	

Client: Roux Associates, Inc. Job Number: 490-116559-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:490-391031					
LCS 490-390721/2-A	Lab Control Sample	T	Solid	6010C	490-390721
MB 490-390721/1-A	Method Blank	T	Solid	6010C	490-390721
LCS 490-390844/2-A	Lab Control Sample	T	Solid	6010C	490-390844
MB 490-390844/1-A	Method Blank	T	Solid	6010C	490-390844
490-116416-G-1-D MS	Matrix Spike	T	Solid	6010C	490-390844
490-116416-G-1-E MSD	Matrix Spike Duplicate	T	Solid	6010C	490-390844
490-116544-B-17-C MS	Matrix Spike	T	Solid	6010C	490-390721
490-116544-B-17-D MSD	Matrix Spike Duplicate	T	Solid	6010C	490-390721
490-116559-1	END-406	T	Solid	6010C	490-390721
490-116559-2	TP-300-6-7	T	Solid	6010C	490-390721
490-116559-3	TP-301-6-7	T	Solid	6010C	490-390721
490-116559-4	END-408	T	Solid	6010C	490-390721
490-116559-5	END-409	T	Solid	6010C	490-390721
490-116559-6	TP-302-6-7	T	Solid	6010C	490-390721
490-116559-7	TP-303-6-7	T	Solid	6010C	490-390721
490-116559-8	TP-304-6-7	T	Solid	6010C	490-390721
490-116559-9	TP-305-6-7	T	Solid	6010C	490-390721
490-116559-10	TP-306-6-7	T	Solid	6010C	490-390721
490-116559-11	TP-307-6-7	T	Solid	6010C	490-390721
490-116560-1	TP-308-6-7	T	Solid	6010C	490-390721
490-116560-2	END-416	T	Solid	6010C	490-390721
490-116560-3	END-413	T	Solid	6010C	490-390721
490-116560-4	END-410	T	Solid	6010C	490-390721
490-116560-5	END-411	T	Solid	6010C	490-390844
490-116560-6	END-417	T	Solid	6010C	490-390844
490-116560-7	END-415	T	Solid	6010C	490-390844
490-116560-8	END-414	T	Solid	6010C	490-390844
490-116560-9	END-412	T	Solid	6010C	490-390844
490-116560-10	END-422	T	Solid	6010C	490-390844
490-116560-11	END-421	T	Solid	6010C	490-390844
Analysis Batch:490-391154					
LCS 490-390844/2-A	Lab Control Sample	T	Solid	6010C	490-390844
MB 490-390844/1-A	Method Blank	T	Solid	6010C	490-390844
490-116416-G-1-D MS	Matrix Spike	T	Solid	6010C	490-390844
490-116416-G-1-E MSD	Matrix Spike Duplicate	T	Solid	6010C	490-390844
490-116560-5	END-411	T	Solid	6010C	490-390844
490-116560-6	END-417	T	Solid	6010C	490-390844
490-116560-7	END-415	T	Solid	6010C	490-390844
490-116560-8	END-414	T	Solid	6010C	490-390844
490-116560-9	END-412	T	Solid	6010C	490-390844
490-116560-10	END-422	T	Solid	6010C	490-390844
490-116560-11	END-421	T	Solid	6010C	490-390844

Client: Roux Associates, Inc. Job Number: 490-116559-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 490-391209					
LCS 490-391209/2-A	Lab Control Sample	T	Solid	7471B	
MB 490-391209/1-A	Method Blank	T	Solid	7471B	
490-116536-D-1-D MS	Matrix Spike	T	Solid	7471B	
490-116536-D-1-E MSD	Matrix Spike Duplicate	T	Solid	7471B	
490-116559-1	END-406	T	Solid	7471B	
490-116559-2	TP-300-6-7	T	Solid	7471B	
490-116559-3	TP-301-6-7	T	Solid	7471B	
490-116559-4	END-408	T	Solid	7471B	
490-116559-5	END-409	T	Solid	7471B	
490-116559-6	TP-302-6-7	T	Solid	7471B	
490-116559-7	TP-303-6-7	T	Solid	7471B	
490-116559-8	TP-304-6-7	T	Solid	7471B	
490-116559-9	TP-305-6-7	T	Solid	7471B	
490-116559-10	TP-306-6-7	T	Solid	7471B	
Prep Batch: 490-391309					
LCS 490-391309/2-A	Lab Control Sample	T	Solid	7471B	
MB 490-391309/1-A	Method Blank	T	Solid	7471B	
490-116559-11	TP-307-6-7	T	Solid	7471B	
490-116560-1	TP-308-6-7	T	Solid	7471B	
490-116560-1MS	Matrix Spike	T	Solid	7471B	
490-116560-1MSD	Matrix Spike Duplicate	T	Solid	7471B	
490-116560-2	END-416	T	Solid	7471B	
490-116560-3	END-413	T	Solid	7471B	
490-116560-4	END-410	T	Solid	7471B	
490-116560-5	END-411	T	Solid	7471B	
490-116560-6	END-417	T	Solid	7471B	
490-116560-7	END-415	T	Solid	7471B	
490-116560-8	END-414	T	Solid	7471B	
490-116560-9	END-412	T	Solid	7471B	
490-116560-10	END-422	T	Solid	7471B	
490-116560-11	END-421	T	Solid	7471B	

Client: Roux Associates, Inc. Job Number: 490-116559-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:490-391382					
LCS 490-391209/2-A	Lab Control Sample	T	Solid	7471B	490-391209
MB 490-391209/1-A	Method Blank	T	Solid	7471B	490-391209
LCS 490-391309/2-A	Lab Control Sample	T	Solid	7471B	490-391309
MB 490-391309/1-A	Method Blank	T	Solid	7471B	490-391309
490-116536-D-1-D MS	Matrix Spike	T	Solid	7471B	490-391209
490-116536-D-1-E MSD	Matrix Spike Duplicate	T	Solid	7471B	490-391209
490-116559-1	END-406	T	Solid	7471B	490-391209
490-116559-2	TP-300-6-7	T	Solid	7471B	490-391209
490-116559-3	TP-301-6-7	T	Solid	7471B	490-391209
490-116559-4	END-408	T	Solid	7471B	490-391209
490-116559-5	END-409	T	Solid	7471B	490-391209
490-116559-6	TP-302-6-7	T	Solid	7471B	490-391209
490-116559-7	TP-303-6-7	T	Solid	7471B	490-391209
490-116559-8	TP-304-6-7	T	Solid	7471B	490-391209
490-116559-9	TP-305-6-7	T	Solid	7471B	490-391209
490-116559-10	TP-306-6-7	T	Solid	7471B	490-391209
490-116559-11	TP-307-6-7	T	Solid	7471B	490-391309
490-116560-1	TP-308-6-7	T	Solid	7471B	490-391309
490-116560-1MS	Matrix Spike	T	Solid	7471B	490-391309
490-116560-1MSD	Matrix Spike Duplicate	T	Solid	7471B	490-391309
490-116560-2	END-416	T	Solid	7471B	490-391309
490-116560-3	END-413	T	Solid	7471B	490-391309
490-116560-4	END-410	T	Solid	7471B	490-391309
490-116560-5	END-411	T	Solid	7471B	490-391309
490-116560-6	END-417	T	Solid	7471B	490-391309
490-116560-7	END-415	T	Solid	7471B	490-391309
490-116560-8	END-414	T	Solid	7471B	490-391309
490-116560-9	END-412	T	Solid	7471B	490-391309
490-116560-10	END-422	T	Solid	7471B	490-391309
490-116560-11	END-421	T	Solid	7471B	490-391309
Analysis Batch:490-391445					
LCS 490-390721/2-A	Lab Control Sample	T	Solid	6010C	490-390721
MB 490-390721/1-A	Method Blank	T	Solid	6010C	490-390721
490-116544-B-17-C MS	Matrix Spike	T	Solid	6010C	490-390721
490-116544-B-17-D MSD	Matrix Spike Duplicate	T	Solid	6010C	490-390721

Client: Roux Associates, Inc. Job Number: 490-116559-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:490-391586					
490-116559-1	END-406	T	Solid	6010C	490-390721
490-116559-2	TP-300-6-7	T	Solid	6010C	490-390721
490-116559-3	TP-301-6-7	T	Solid	6010C	490-390721
490-116559-4	END-408	T	Solid	6010C	490-390721
490-116559-5	END-409	T	Solid	6010C	490-390721
490-116559-6	TP-302-6-7	T	Solid	6010C	490-390721
490-116559-7	TP-303-6-7	T	Solid	6010C	490-390721
490-116559-8	TP-304-6-7	T	Solid	6010C	490-390721
490-116559-9	TP-305-6-7	T	Solid	6010C	490-390721
490-116559-10	TP-306-6-7	T	Solid	6010C	490-390721
490-116559-11	TP-307-6-7	T	Solid	6010C	490-390721
490-116560-1	TP-308-6-7	T	Solid	6010C	490-390721
490-116560-2	END-416	T	Solid	6010C	490-390721
490-116560-3	END-413	T	Solid	6010C	490-390721
490-116560-4	END-410	T	Solid	6010C	490-390721

Report Basis
T = Total

Client: Roux Associates, Inc. Job Number: 490-116559-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:490-388813					
490-116498-A-1 DU	Duplicate	T	Solid	Moisture	
490-116559-1	END-406	T	Solid	Moisture	
490-116559-1MS	Matrix Spike	T	Solid	Moisture	
490-116559-1MSD	Matrix Spike Duplicate	T	Solid	Moisture	
490-116559-2	TP-300-6-7	T	Solid	Moisture	
490-116559-3	TP-301-6-7	T	Solid	Moisture	
490-116559-4	END-408	T	Solid	Moisture	
490-116559-5	END-409	T	Solid	Moisture	
490-116559-6	TP-302-6-7	T	Solid	Moisture	
490-116559-7	TP-303-6-7	T	Solid	Moisture	
490-116559-8	TP-304-6-7	T	Solid	Moisture	
490-116559-9	TP-305-6-7	T	Solid	Moisture	
490-116559-10	TP-306-6-7	T	Solid	Moisture	
490-116559-11	TP-307-6-7	T	Solid	Moisture	
490-116560-1	TP-308-6-7	T	Solid	Moisture	
490-116560-1MS	Matrix Spike	T	Solid	Moisture	
490-116560-1MSD	Matrix Spike Duplicate	T	Solid	Moisture	
490-116560-2	END-416	T	Solid	Moisture	
490-116560-3	END-413	T	Solid	Moisture	
490-116560-4	END-410	T	Solid	Moisture	
490-116560-5	END-411	T	Solid	Moisture	
490-116560-6	END-417	T	Solid	Moisture	
490-116560-7	END-415	T	Solid	Moisture	
490-116560-8	END-414	T	Solid	Moisture	
490-116560-9	END-412	T	Solid	Moisture	
490-116560-10	END-422	T	Solid	Moisture	
490-116560-11	END-421	T	Solid	Moisture	
490-116560-11DU	Duplicate	T	Solid	Moisture	

Report Basis
T = Total

Client: Roux Associates, Inc. Job Number: 490-116559-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
490-116559-1	END-406	95	106	108	114
490-116559-2	TP-300-6-7	109	100	101	100
490-116559-2	TP-300-6-7	95	102	102	96
490-116559-3	TP-301-6-7	107	98	101	100
490-116559-3	TP-301-6-7	96	104	102	100
490-116559-4	END-408	102	98	100	100
490-116559-4	END-408	96	102	103	98
490-116559-5	END-409	106	97	98	95
490-116559-5	END-409	95	105	106	100
490-116559-6	TP-302-6-7	104	99	101	99
490-116559-6	TP-302-6-7	96	106	107	98
490-116559-7	TP-303-6-7	104	99	99	99
490-116559-7	TP-303-6-7	95	106	106	97
490-116559-8	TP-304-6-7	125*	101	102	107
490-116559-8	TP-304-6-7	97	107	109	100
490-116559-9	TP-305-6-7	146*	110	112	119*
490-116559-9	TP-305-6-7	102	107	108	100
490-116559-10	TP-306-6-7	150*	113	114	120*
490-116559-10	TP-306-6-7	101	106	106	102
490-116559-11	TP-307-6-7	134*	118	128	118*
490-116559-11	TP-307-6-7	112	110	107	102
490-116560-1	TP-308-6-7	152*	105	104	116
490-116560-2	END-416	134*	102	101	111
490-116560-3	END-413	97	102	102	99
490-116560-4	END-410	112	99	102	99
490-116560-5	END-411	122	100	101	121
490-116560-6	END-417	100	99	101	96
490-116560-7	END-415	99	99	113	95
490-116560-8	END-414	116	100	100	98

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	70-130
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
490-116560-9	END-412	135*	100	101	104
490-116560-10	END-422	141*	102	98	113
490-116560-11	END-421	1264*	112	111	1052*
MB 490-389572/8		113	100	100	97
MB 490-389677/9		95	105	109	99
MB 490-389824/6		120	102	103	97
MB 490-390019/8		105	97	92	98
MB 490-390019/9		100	97	94	97
LCS 490-389572/5		92	95	91	98
LCS 490-389677/3		95	102	97	101
LCS 490-389824/3		87	100	96	95
LCS 490-390019/4		92	94	94	99
LCSD 490-389572/6		92	94	90	98
LCSD 490-389677/5		96	102	101	99
LCSD 490-389824/4		86	96	97	95
LCSD 490-390019/5		95	95	94	98
LCSD 490-390019/24		95	98	98	98
490-116559-11 MS	TP-307-6-7 MS	102	102	104	101
490-116560-8 MS	END-414 MS	104	98	101	98
490-116561-A-2-B MS		93	97	99	97
490-116559-11 MSD	TP-307-6-7 MSD	98	102	104	100
490-116560-8 MSD	END-414 MSD	101	99	98	98
490-116561-A-2-C MSD		95	99	97	98

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	70-130
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
490-116559-1	END-406	101	92	92	100
490-116560-11	END-421	102	100	103	103
MB 490-389914/8		92	98	105	100
MB 490-390303/6		94	101	92	100
LCS 490-389914/5		92	102	102	100
LCS 490-390019/23		94	97	97	97
LCS 490-390303/3		91	103	88	101
LCSD 490-389914/6		92	101	102	99
LCSD 490-390303/4		90	100	87	103
490-116560-11 MS	END-421 MS	108	102	88	110
490-116560-11 MSD	END-421 MSD	118	103	89	112

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	70-130
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Surrogate Recovery Report

8270D Semivolatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	FBP %Rec	2FP %Rec	NBZ %Rec	PHL %Rec	TPHL %Rec	TBP %Rec
490-116559-1	END-406	57	37	55	48	63	60
490-116559-2	TP-300-6-7	54	49	51	54	83	84
490-116559-3	TP-301-6-7	60	51	55	57	86	87
490-116559-4	END-408	50	44	47	47	72	69
490-116559-5	END-409	48	44	46	46	64	65
490-116559-6	TP-302-6-7	51	48	51	53	72	71
490-116559-7	TP-303-6-7	51	47	49	49	78	71
490-116559-8	TP-304-6-7	50	45	46	50	76	76
490-116559-9	TP-305-6-7	69	64	66	73	76	81
490-116559-10	TP-306-6-7	62	52	55	58	79	76
490-116559-11	TP-307-6-7	56	42	45	49	78	77
490-116560-1	TP-308-6-7	61	52	54	58	90	87
490-116560-2	END-416	61	53	55	59	73	76
490-116560-3	END-413	47	46	46	51	69	67
490-116560-4	END-410	35	28	31	33	44	42
490-116560-5	END-411	61	52	56	58	77	78
490-116560-6	END-417	53	50	50	54	77	73
490-116560-7	END-415	52	44	46	50	67	65
490-116560-8	END-414	54	43	44	50	78	80
490-116560-9	END-412	63	54	55	62	79	80
490-116560-10	END-422	64	55	80	68	74	50
490-116560-11	END-421	76	53	97	69	92	80
MB 490-389971/1-A		79	53	104	73	83	28
MB 490-389972/1-A		65	51	66	58	73	48
LCS 490-389971/2-A		63	58	84	73	69	47
LCS 490-389972/2-A		59	60	59	59	73	72
LCSD 490-389971/4-A		70	64	92	84	78	54
490-116559-1 MS	END-406 MS	53	44	54	48	59	58
490-116560-11 MS	END-421 MS	62	49	74	59	70	70

Surrogate	Acceptance Limits
FBP = 2-Fluorobiphenyl (Surr)	29-120
2FP = 2-Fluorophenol (Surr)	10-120
NBZ = Nitrobenzene-d5 (Surr)	27-120
PHL = Phenol-d5 (Surr)	10-120
TPHL = Terphenyl-d14 (Surr)	13-120
TBP = 2,4,6-Tribromophenol (Surr)	10-120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Surrogate Recovery Report

8270D Semivolatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	FBP %Rec	2FP %Rec	NBZ %Rec	PHL %Rec	TPHL %Rec	TBP %Rec
490-116559-1 MSD	END-406 MSD	37	31	46	33	43	40
490-116560-11 MSD	END-421 MSD	62	50	80	60	70	78

Surrogate	Acceptance Limits
FBP = 2-Fluorobiphenyl (Surr)	29-120
2FP = 2-Fluorophenol (Surr)	10-120
NBZ = Nitrobenzene-d5 (Surr)	27-120
PHL = Phenol-d5 (Surr)	10-120
TPHL = Terphenyl-d14 (Surr)	13-120
TBP = 2,4,6-Tribromophenol (Surr)	10-120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-388763

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116559-11	Analysis Batch:	490-389677	Instrument ID:	HP87
Client Matrix:	Solid	Prep Batch:	490-388763	Lab File ID:	112516-49.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.14 g
Analysis Date:	11/26/2016 0901			Final Weight/Volume:	5.0 mL
Prep Date:	11/22/2016 1553				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116559-11	Analysis Batch:	490-389677	Instrument ID:	HP87
Client Matrix:	Solid	Prep Batch:	490-388763	Lab File ID:	112516-50.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.05 g
Analysis Date:	11/26/2016 0932			Final Weight/Volume:	5.0 mL
Prep Date:	11/22/2016 1553				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	58	63	10 - 150	7	50	B	B
Benzene	48	57	21 - 150	18	50		
Bromobenzene	17	20	10 - 150	22	50		
Bromochloromethane	55	63	10 - 150	16	50		
Bromodichloromethane	39	48	10 - 150	23	50		
Bromoform	17	27	10 - 150	45	50		
Bromomethane	72	78	10 - 150	9	50		
2-Butanone (MEK)	70	75	10 - 150	8	50		
Carbon disulfide	49	61	10 - 150	24	50		
Carbon tetrachloride	50	61	10 - 150	21	50		
Chlorobenzene	21	28	10 - 150	28	50		
Chloroethane	83	85	10 - 150	5	50		
Chloroform	54	63	10 - 150	17	50		
Chloromethane	71	80	10 - 150	13	50		
cis-1,2-Dichloroethene	49	60	10 - 150	22	50		
cis-1,3-Dichloropropene	31	40	10 - 150	26	50		
Dibromochloromethane	28	35	10 - 150	23	50		
1,2-Dibromo-3-chloropropane	14	13	10 - 150	5	50		
1,2-Dibromoethane	25	36	10 - 150	35	50		
1,2-Dichlorobenzene	10	11	10 - 150	10	50		
1,3-Dichlorobenzene	10	12	10 - 150	18	50		
1,4-Dichlorobenzene	10	11	10 - 150	18	50		
Dichlorodifluoromethane	85	93	10 - 150	11	50		
1,1-Dichloroethane	64	70	10 - 150	11	50		
1,2-Dichloroethane	49	59	24 - 138	21	50		
1,1-Dichloroethene	66	75	10 - 150	15	50		
1,2-Dichloropropane	45	57	10 - 150	25	50		
1,3-Dichloropropane	33	41	10 - 150	24	50		
2,2-Dichloropropane	60	68	10 - 150	14	50		
1,1-Dichloropropene	49	59	10 - 150	22	50		
Ethylbenzene	27	31	10 - 150	17	50		
Hexachlorobutadiene	4	5	10 - 150	21	50	J *	J *

Client: Roux Associates, Inc. Job Number: 490-116559-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-388763

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116559-11	Analysis Batch:	490-389677	Instrument ID:	HP87
Client Matrix:	Solid	Prep Batch:	490-388763	Lab File ID:	112516-49.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.14 g
Analysis Date:	11/26/2016 0901			Final Weight/Volume:	5.0 mL
Prep Date:	11/22/2016 1553				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116559-11	Analysis Batch:	490-389677	Instrument ID:	HP87
Client Matrix:	Solid	Prep Batch:	490-388763	Lab File ID:	112516-50.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.05 g
Analysis Date:	11/26/2016 0932			Final Weight/Volume:	5.0 mL
Prep Date:	11/22/2016 1553				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2-Hexanone	31	44	10 - 150	36	50		
Isopropylbenzene	20	24	10 - 150	20	50		
Methylene bromide	37	49	10 - 150	29	50		
Methylene Chloride	66	73	24 - 150	11	50		
4-Methyl-2-pentanone (MIBK)	52	63	10 - 150	21	50		
Methyl tert butyl ether	73	78	10 - 150	8	50		
m,p-Xylene	23	28	10 - 150	18	50		
Naphthalene	7	6	10 - 150	5	50	J *	J *
n-Butylbenzene	10	13	10 - 150	31	50		
N-Propylbenzene	18	22	10 - 150	19	50		
o-Chlorotoluene	16	19	10 - 150	19	50		
o-Xylene	21	25	10 - 150	20	50		
p-Chlorotoluene	13	17	10 - 150	27	50		
p-Isopropyltoluene	12	14	10 - 150	19	50		
sec-Butylbenzene	13	16	10 - 150	25	50		
Styrene	12	15	10 - 150	28	50		
tert-Butylbenzene	16	18	10 - 150	12	50		
1,1,1,2-Tetrachloroethane	28	33	10 - 150	17	50		
1,1,2,2-Tetrachloroethane	56	52	10 - 150	5	50		
Tetrachloroethene	33	41	10 - 150	26	50		
Toluene	36	43	17 - 150	20	50		
trans-1,2-Dichloroethene	50	62	10 - 150	22	50		
trans-1,3-Dichloropropene	22	31	10 - 150	38	50		
1,2,3-Trichlorobenzene	0	8	10 - 150	NC	50	U *	*
1,2,4-Trichlorobenzene	5	6	10 - 150	21	50	*	*
1,1,1-Trichloroethane	57	64	10 - 150	13	50		
1,1,2-Trichloroethane	39	43	10 - 150	11	50		
Trichloroethene	43	54	10 - 150	23	50		
Trichlorofluoromethane	72	78	10 - 150	10	50		
1,2,3-Trichloropropane	4	5	10 - 150	26	50	J *	*
1,2,4-Trimethylbenzene	16	17	10 - 150	8	50		
1,3,5-Trimethylbenzene	16	18	10 - 150	14	50		

Client: Roux Associates, Inc. Job Number: 490-116559-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-388763

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116559-11	Analysis Batch:	490-389677	Instrument ID:	HP87
Client Matrix:	Solid	Prep Batch:	490-388763	Lab File ID:	112516-49.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.14 g
Analysis Date:	11/26/2016 0901			Final Weight/Volume:	5.0 mL
Prep Date:	11/22/2016 1553				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116559-11	Analysis Batch:	490-389677	Instrument ID:	HP87
Client Matrix:	Solid	Prep Batch:	490-388763	Lab File ID:	112516-50.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.05 g
Analysis Date:	11/26/2016 0932			Final Weight/Volume:	5.0 mL
Prep Date:	11/22/2016 1553				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Vinyl acetate	22	46	10 - 150	74	50		*
Vinyl chloride	73	84	10 - 150	15	50		
Xylenes (total)	22	26	10 - 150	19	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	102	98	70 - 130
Dibromofluoromethane (Surr)	102	102	70 - 130
1,2-Dichloroethane-d4 (Surr)	104	104	70 - 130
Toluene-d8 (Surr)	101	100	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-389095

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116560-11	Analysis Batch:	490-390303	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	490-389095	Lab File ID:	11291608.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	6.924 g
Analysis Date:	11/29/2016 1247			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0715				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116560-11	Analysis Batch:	490-390303	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	490-389095	Lab File ID:	11291609.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	6.924 g
Analysis Date:	11/29/2016 1314			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0715				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	84	81	10 - 150	4	50		
Benzene	122	127	21 - 150	4	50		
Bromobenzene	113	115	10 - 150	2	50		
Bromochloromethane	115	121	10 - 150	5	50		
Bromodichloromethane	110	116	10 - 150	5	50		
Bromoform	90	95	10 - 150	5	50		
Bromomethane	144	138	10 - 150	4	50		
2-Butanone (MEK)	76	80	10 - 150	5	50		
Carbon disulfide	118	125	10 - 150	6	50		
Carbon tetrachloride	135	144	10 - 150	7	50		
Chlorobenzene	124	131	10 - 150	5	50		
Chloroethane	130	141	10 - 150	8	50		
Chloroform	123	128	10 - 150	4	50		
Chloromethane	134	140	10 - 150	4	50		
cis-1,2-Dichloroethene	117	124	10 - 150	6	50		
cis-1,3-Dichloropropene	102	109	10 - 150	6	50		
Dibromochloromethane	104	110	10 - 150	6	50		
1,2-Dibromo-3-chloropropane	81	85	10 - 150	4	50		
1,2-Dibromoethane	93	97	10 - 150	5	50		
1,2-Dichlorobenzene	117	123	10 - 150	5	50		
1,3-Dichlorobenzene	122	129	10 - 150	5	50		
1,4-Dichlorobenzene	120	125	10 - 150	5	50		
Dichlorodifluoromethane	176	181	10 - 150	3	50	*	*
1,1-Dichloroethane	118	123	10 - 150	5	50		
1,2-Dichloroethane	105	109	24 - 138	4	50		
1,1-Dichloroethene	126	135	10 - 150	7	50		
1,2-Dichloropropane	112	111	10 - 150	1	50		
1,3-Dichloropropane	96	99	10 - 150	4	50		
2,2-Dichloropropane	127	136	10 - 150	7	50		
1,1-Dichloropropene	127	131	10 - 150	4	50		
Ethylbenzene	128	135	10 - 150	5	50		
Hexachlorobutadiene	96	103	10 - 150	7	50		

Client: Roux Associates, Inc. Job Number: 490-116559-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-389095

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116560-11	Analysis Batch:	490-390303	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	490-389095	Lab File ID:	11291608.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	6.924 g
Analysis Date:	11/29/2016 1247			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0715				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116560-11	Analysis Batch:	490-390303	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	490-389095	Lab File ID:	11291609.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	6.924 g
Analysis Date:	11/29/2016 1314			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0715				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2-Hexanone	88	98	10 - 150	11	50		
Isopropylbenzene	138	140	10 - 150	1	50		
Methylene bromide	98	101	10 - 150	3	50		
Methylene Chloride	109	115	24 - 150	5	50		
4-Methyl-2-pentanone (MIBK)	77	81	10 - 150	5	50		
Methyl tert butyl ether	98	105	10 - 150	6	50		
m,p-Xylene	128	130	10 - 150	2	50		
Naphthalene	92	96	10 - 150	4	50		
n-Butylbenzene	117	124	10 - 150	4	50		
N-Propylbenzene	126	129	10 - 150	2	50		
o-Chlorotoluene	129	131	10 - 150	2	50		
o-Xylene	124	130	10 - 150	4	50		
p-Chlorotoluene	126	130	10 - 150	3	50		
p-Isopropyltoluene	124	131	10 - 150	5	50		
sec-Butylbenzene	122	131	10 - 150	6	50		
Styrene	124	129	10 - 150	4	50		
tert-Butylbenzene	124	136	10 - 150	9	50		
1,1,1,2-Tetrachloroethane	119	126	10 - 150	6	50		
1,1,2,2-Tetrachloroethane	114	186	10 - 150	48	50		*
Tetrachloroethene	130	138	10 - 150	7	50		
Toluene	125	132	17 - 150	6	50		
trans-1,2-Dichloroethene	124	126	10 - 150	2	50		
trans-1,3-Dichloropropene	98	106	10 - 150	8	50		
1,2,3-Trichlorobenzene	97	103	10 - 150	6	50		
1,2,4-Trichlorobenzene	98	104	10 - 150	6	50		
1,1,1-Trichloroethane	131	141	10 - 150	7	50		
1,1,2-Trichloroethane	663	715	10 - 150	8	50	*	*
Trichloroethene	127	136	10 - 150	7	50		
Trichlorofluoromethane	142	148	10 - 150	4	50		
1,2,3-Trichloropropane	121	127	10 - 150	5	50		
1,2,4-Trimethylbenzene	126	135	10 - 150	5	50		
1,3,5-Trimethylbenzene	129	135	10 - 150	4	50		

Client: Roux Associates, Inc. Job Number: 490-116559-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-389095

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116560-11	Analysis Batch:	490-390303	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	490-389095	Lab File ID:	11291608.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	6.924 g
Analysis Date:	11/29/2016 1247			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0715				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116560-11	Analysis Batch:	490-390303	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	490-389095	Lab File ID:	11291609.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	6.924 g
Analysis Date:	11/29/2016 1314			Final Weight/Volume:	5.0 mL
Prep Date:	11/17/2016 0715				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Vinyl acetate	87	90	10 - 150	4	50		
Vinyl chloride	132	138	10 - 150	4	50		
Xylenes (total)	126	130	10 - 150	3	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	108	118	70 - 130
Dibromofluoromethane (Surr)	102	103	70 - 130
1,2-Dichloroethane-d4 (Surr)	88	89	70 - 130
Toluene-d8 (Surr)	110	112	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Method Blank - Batch: 490-389572 **Method: 8260C**
Preparation: N/A

Lab Sample ID:	MB 490-389572/8	Analysis Batch:	490-389572	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112516-09.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/25/2016 1433	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	0.00840	U	0.00840	0.0500
Benzene	0.000670	U	0.000670	0.00200
Bromobenzene	0.000720	U	0.000720	0.00200
Bromochloromethane	0.000550	U	0.000550	0.00200
Bromodichloromethane	0.000550	U	0.000550	0.00200
Bromoform	0.000550	U	0.000550	0.00200
Bromomethane	0.00120	U	0.00120	0.00200
2-Butanone (MEK)	0.00510	U	0.00510	0.0500
Carbon disulfide	0.00360	U	0.00360	0.00500
Carbon tetrachloride	0.000670	U	0.000670	0.00200
Chlorobenzene	0.000670	U	0.000670	0.00200
Chloroethane	0.00190	U	0.00190	0.00500
Chloroform	0.000670	U	0.000670	0.00200
Chloromethane	0.000670	U	0.000670	0.00200
cis-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
cis-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
Dibromochloromethane	0.000340	U	0.000340	0.00200
1,2-Dibromo-3-chloropropane	0.000700	U	0.000700	0.00500
1,2-Dibromoethane	0.00100	U	0.00100	0.00200
1,2-Dichlorobenzene	0.000340	U	0.000340	0.00200
1,3-Dichlorobenzene	0.000670	U	0.000670	0.00200
1,4-Dichlorobenzene	0.000670	U	0.000670	0.00200
Dichlorodifluoromethane	0.00100	U	0.00100	0.00200
1,1-Dichloroethane	0.000670	U	0.000670	0.00200
1,2-Dichloroethane	0.000670	U	0.000670	0.00200
1,1-Dichloroethene	0.000570	U	0.000570	0.00200
1,2-Dichloropropane	0.000940	U	0.000940	0.00200
1,3-Dichloropropane	0.000940	U	0.000940	0.00200
2,2-Dichloropropane	0.000670	U	0.000670	0.00200
1,1-Dichloropropene	0.000510	U	0.000510	0.00200
Ethylbenzene	0.000670	U	0.000670	0.00200
Hexachlorobutadiene	0.00114	U	0.00114	0.00500
2-Hexanone	0.0167	U	0.0167	0.0500
Iodomethane	0.00670	U	0.00670	0.0200
Isopropylbenzene	0.000410	U	0.000410	0.00200
Methylene bromide	0.000560	U	0.000560	0.00200
Methylene Chloride	0.000860	U	0.000860	0.0100
4-Methyl-2-pentanone (MIBK)	0.00190	U	0.00190	0.0500
Methyl tert butyl ether	0.000960	U	0.000960	0.00200
m,p-Xylene	0.000560	U	0.000560	0.00400
Naphthalene	0.00170	U	0.00170	0.00500
n-Butylbenzene	0.000980	U	0.000980	0.00200
N-Propylbenzene	0.000670	U	0.000670	0.00200
o-Chlorotoluene	0.000890	U	0.000890	0.00200
o-Xylene	0.000670	U	0.000670	0.00200

Client: Roux Associates, Inc. Job Number: 490-116559-1

Method Blank - Batch: 490-389572

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-389572/8	Analysis Batch:	490-389572	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112516-09.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/25/2016 1433	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.000840	U	0.000840	0.00200
p-Isopropyltoluene	0.000670	U	0.000670	0.00200
sec-Butylbenzene	0.000670	U	0.000670	0.00200
Styrene	0.00110	U	0.00110	0.00200
tert-Butylbenzene	0.000900	U	0.000900	0.00200
1,1,1,2-Tetrachloroethane	0.000670	U	0.000670	0.00200
1,1,2,2-Tetrachloroethane	0.00100	U	0.00100	0.00200
Tetrachloroethene	0.000730	U	0.000730	0.00200
Toluene	0.000740	U	0.000740	0.00200
trans-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
trans-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
1,2,3-Trichlorobenzene	0.0005378	J	0.000380	0.00200
1,2,4-Trichlorobenzene	0.000670	U	0.000670	0.00200
1,1,1-Trichloroethane	0.000920	U	0.000920	0.00200
1,1,2-Trichloroethane	0.00140	U	0.00140	0.00500
Trichloroethene	0.000960	U	0.000960	0.00200
Trichlorofluoromethane	0.00100	U	0.00100	0.00200
1,2,3-Trichloropropane	0.000550	U	0.000550	0.00200
1,2,4-Trimethylbenzene	0.00100	U	0.00100	0.00200
1,3,5-Trimethylbenzene	0.000750	U	0.000750	0.00200
Vinyl acetate	0.00440	U	0.00440	0.0200
Vinyl chloride	0.00110	U	0.00110	0.00200
Xylenes (total)	0.00123	U	0.00123	0.00600

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	113	70 - 130
Dibromofluoromethane (Surr)	100	70 - 130
1,2-Dichloroethane-d4 (Surr)	100	70 - 130
Toluene-d8 (Surr)	97	70 - 130

Method Blank TICs- Batch: 490-389572

Cas Number	Analyte	RT	Est. Result (mg	Qual
91-57-6	2-Methylnaphthalene	12.59	0.002454	J
71-36-3	n-Butanol	4.71	0.01048	J
	Unknown	9.26	0.006964	J

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-389572

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-389572/5	Analysis Batch:	490-389572	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112516-06.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/25/2016 1302	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-389572/6	Analysis Batch:	490-389572	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112516-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/25/2016 1332	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	81	88	45 - 145	8	38		
Benzene	102	104	70 - 130	2	37		
Bromobenzene	96	102	67 - 130	6	40		
Bromochloromethane	101	102	70 - 133	0	15		
Bromodichloromethane	97	99	70 - 130	2	20		
Bromoform	99	104	59 - 137	5	17		
Bromomethane	114	116	32 - 150	2	45		
2-Butanone (MEK)	92	98	50 - 149	7	39		
Carbon disulfide	97	105	66 - 138	8	41		
Carbon tetrachloride	112	116	70 - 131	4	41		
Chlorobenzene	104	111	70 - 130	6	40		
Chloroethane	101	100	37 - 150	1	50		
Chloroform	98	99	70 - 130	2	15		
Chloromethane	87	89	53 - 150	3	47		
cis-1,2-Dichloroethene	103	106	70 - 132	3	18		
cis-1,3-Dichloropropene	95	98	70 - 130	3	42		
Dibromochloromethane	100	102	70 - 130	1	14		
1,2-Dibromo-3-chloropropane	92	100	47 - 144	8	38		
1,2-Dibromoethane	96	97	69 - 130	1	17		
1,2-Dichlorobenzene	110	115	70 - 134	5	40		
1,3-Dichlorobenzene	113	123	69 - 137	9	41		
1,4-Dichlorobenzene	111	124	66 - 134	10	41		
Dichlorodifluoromethane	94	102	32 - 150	8	50		
1,1-Dichloroethane	95	98	70 - 130	3	42		
1,2-Dichloroethane	91	93	65 - 134	3	16		
1,1-Dichloroethene	106	109	70 - 131	3	43		
1,2-Dichloropropane	91	92	70 - 130	1	15		
1,3-Dichloropropane	90	94	70 - 130	4	15		
2,2-Dichloropropane	113	120	57 - 150	6	42		
1,1-Dichloropropene	98	104	70 - 130	5	41		
Ethylbenzene	103	111	70 - 130	8	38		
Hexachlorobutadiene	102	110	64 - 137	8	44		
2-Hexanone	89	97	47 - 148	9	38		
Isopropylbenzene	105	115	70 - 130	9	39		
Methylene bromide	91	95	70 - 130	4	19		

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-389572

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-389572/5	Analysis Batch:	490-389572	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112516-06.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/25/2016 1302	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-389572/6	Analysis Batch:	490-389572	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112516-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/25/2016 1332	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	95	96	69 - 130	1	19		
4-Methyl-2-pentanone (MIBK)	85	93	48 - 150	9	41		
Methyl tert butyl ether	100	100	54 - 145	0	36		
m,p-Xylene	101	111	70 - 130	9	38		
Naphthalene	90	100	55 - 149	11	37		
n-Butylbenzene	102	118	57 - 150	14	39		
N-Propylbenzene	106	117	62 - 150	10	38		
o-Chlorotoluene	108	116	70 - 132	8	41		
o-Xylene	103	110	70 - 130	7	38		
p-Chlorotoluene	106	117	67 - 135	10	41		
p-Isopropyltoluene	107	119	66 - 147	11	38		
sec-Butylbenzene	104	113	68 - 147	9	38		
Styrene	105	112	70 - 131	7	40		
tert-Butylbenzene	114	123	70 - 138	7	38		
1,1,1,2-Tetrachloroethane	107	111	70 - 130	3	41		
1,1,2,2-Tetrachloroethane	89	98	61 - 134	10	16		
Tetrachloroethene	111	124	70 - 130	11	41		
Toluene	99	105	70 - 130	6	40		
trans-1,2-Dichloroethene	95	99	70 - 130	4	41		
trans-1,3-Dichloropropene	94	98	67 - 130	5	41		
1,2,3-Trichlorobenzene	102	117	57 - 146	14	42		
1,2,4-Trichlorobenzene	91	114	47 - 150	23	43		
1,1,1-Trichloroethane	107	111	70 - 130	3	41		
1,1,2-Trichloroethane	86	91	70 - 130	6	17		
Trichloroethene	104	108	70 - 130	4	41		
Trichlorofluoromethane	118	123	53 - 150	4	49		
1,2,3-Trichloropropane	93	99	60 - 139	6	16		
1,2,4-Trimethylbenzene	108	118	70 - 140	9	38		
1,3,5-Trimethylbenzene	111	123	69 - 141	11	38		
Vinyl acetate	107	171	10 - 150	46	50		*
Vinyl chloride	99	102	63 - 150	3	46		
Xylenes (total)	102	111	70 - 130	8	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	92	92	70 - 130
Dibromofluoromethane (Surr)	95	94	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91	90	70 - 130
Toluene-d8 (Surr)	98	98	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Method Blank - Batch: 490-389677

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-389677/9	Analysis Batch:	490-389677	Instrument ID:	HP87
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112516-37.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/26/2016 0302	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	0.02304	J	0.00840	0.0500
Benzene	0.000670	U	0.000670	0.00200
Bromobenzene	0.000720	U	0.000720	0.00200
Bromochloromethane	0.000550	U	0.000550	0.00200
Bromodichloromethane	0.000550	U	0.000550	0.00200
Bromoform	0.000550	U	0.000550	0.00200
Bromomethane	0.00120	U	0.00120	0.00200
2-Butanone (MEK)	0.00510	U	0.00510	0.0500
Carbon disulfide	0.00360	U	0.00360	0.00500
Carbon tetrachloride	0.000670	U	0.000670	0.00200
Chlorobenzene	0.000670	U	0.000670	0.00200
Chloroethane	0.00190	U	0.00190	0.00500
Chloroform	0.000670	U	0.000670	0.00200
Chloromethane	0.000670	U	0.000670	0.00200
cis-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
cis-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
Dibromochloromethane	0.000340	U	0.000340	0.00200
1,2-Dibromo-3-chloropropane	0.000700	U	0.000700	0.00500
1,2-Dibromoethane	0.00100	U	0.00100	0.00200
1,2-Dichlorobenzene	0.000340	U	0.000340	0.00200
1,3-Dichlorobenzene	0.000670	U	0.000670	0.00200
1,4-Dichlorobenzene	0.000670	U	0.000670	0.00200
Dichlorodifluoromethane	0.00100	U	0.00100	0.00200
1,1-Dichloroethane	0.000670	U	0.000670	0.00200
1,2-Dichloroethane	0.000670	U	0.000670	0.00200
1,1-Dichloroethene	0.000570	U	0.000570	0.00200
1,2-Dichloropropane	0.000940	U	0.000940	0.00200
1,3-Dichloropropane	0.000940	U	0.000940	0.00200
2,2-Dichloropropane	0.000670	U	0.000670	0.00200
1,1-Dichloropropene	0.000510	U	0.000510	0.00200
Ethylbenzene	0.000670	U	0.000670	0.00200
Hexachlorobutadiene	0.00114	U	0.00114	0.00500
2-Hexanone	0.0167	U	0.0167	0.0500
Iodomethane	0.00670	U	0.00670	0.0200
Isopropylbenzene	0.000410	U	0.000410	0.00200
Methylene bromide	0.000560	U	0.000560	0.00200
Methylene Chloride	0.000860	U	0.000860	0.0100
4-Methyl-2-pentanone (MIBK)	0.00190	U	0.00190	0.0500
Methyl tert butyl ether	0.000960	U	0.000960	0.00200
m,p-Xylene	0.000560	U	0.000560	0.00400
Naphthalene	0.00170	U	0.00170	0.00500
n-Butylbenzene	0.000980	U	0.000980	0.00200
N-Propylbenzene	0.000670	U	0.000670	0.00200
o-Chlorotoluene	0.000890	U	0.000890	0.00200
o-Xylene	0.000670	U	0.000670	0.00200

Client: Roux Associates, Inc. Job Number: 490-116559-1

Method Blank - Batch: 490-389677

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-389677/9	Analysis Batch:	490-389677	Instrument ID:	HP87
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112516-37.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/26/2016 0302	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.000840	U	0.000840	0.00200
p-Isopropyltoluene	0.000670	U	0.000670	0.00200
sec-Butylbenzene	0.000670	U	0.000670	0.00200
Styrene	0.00110	U	0.00110	0.00200
tert-Butylbenzene	0.000900	U	0.000900	0.00200
1,1,1,2-Tetrachloroethane	0.000670	U	0.000670	0.00200
1,1,2,2-Tetrachloroethane	0.00100	U	0.00100	0.00200
Tetrachloroethene	0.000730	U	0.000730	0.00200
Toluene	0.000740	U	0.000740	0.00200
trans-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
trans-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
1,2,3-Trichlorobenzene	0.000380	U	0.000380	0.00200
1,2,4-Trichlorobenzene	0.000670	U	0.000670	0.00200
1,1,1-Trichloroethane	0.000920	U	0.000920	0.00200
1,1,2-Trichloroethane	0.00140	U	0.00140	0.00500
Trichloroethene	0.000960	U	0.000960	0.00200
Trichlorofluoromethane	0.00100	U	0.00100	0.00200
1,2,3-Trichloropropane	0.000550	U	0.000550	0.00200
1,2,4-Trimethylbenzene	0.00100	U	0.00100	0.00200
1,3,5-Trimethylbenzene	0.000750	U	0.000750	0.00200
Vinyl acetate	0.00440	U	0.00440	0.0200
Vinyl chloride	0.00110	U	0.00110	0.00200
Xylenes (total)	0.00123	U	0.00123	0.00600

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	95	70 - 130
Dibromofluoromethane (Surr)	105	70 - 130
1,2-Dichloroethane-d4 (Surr)	109	70 - 130
Toluene-d8 (Surr)	99	70 - 130

Method Blank TICs- Batch: 490-389677

Cas Number	Analyte	RT	Est. Result (mg	Qual
	Tentatively Identified Compound		None	

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-389677

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-389677/3	Analysis Batch:	490-389677	Instrument ID:	HP87
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112516-31.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/26/2016 0002	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-389677/5	Analysis Batch:	490-389677	Instrument ID:	HP87
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112516-33.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/26/2016 0102	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	119	116	45 - 145	2	38	B	B
Benzene	108	109	70 - 130	1	37		
Bromobenzene	94	93	67 - 130	1	40		
Bromochloromethane	118	116	70 - 133	2	15		
Bromodichloromethane	107	107	70 - 130	0	20		
Bromoform	115	115	59 - 137	0	17		
Bromomethane	117	125	32 - 150	6	45		
2-Butanone (MEK)	112	110	50 - 149	2	39		
Carbon disulfide	107	108	66 - 138	1	41		
Carbon tetrachloride	114	119	70 - 131	4	41		
Chlorobenzene	105	106	70 - 130	1	40		
Chloroethane	116	121	37 - 150	4	50		
Chloroform	110	113	70 - 130	3	15		
Chloromethane	98	101	53 - 150	3	47		
cis-1,2-Dichloroethene	109	111	70 - 132	3	18		
cis-1,3-Dichloropropene	103	103	70 - 130	0	42		
Dibromochloromethane	111	113	70 - 130	2	14		
1,2-Dibromo-3-chloropropane	93	92	47 - 144	1	38		
1,2-Dibromoethane	110	108	69 - 130	2	17		
1,2-Dichlorobenzene	99	99	70 - 134	0	40		
1,3-Dichlorobenzene	97	96	69 - 137	1	41		
1,4-Dichlorobenzene	94	95	66 - 134	1	41		
Dichlorodifluoromethane	122	125	32 - 150	2	50		
1,1-Dichloroethane	107	108	70 - 130	1	42		
1,2-Dichloroethane	110	111	65 - 134	1	16		
1,1-Dichloroethene	111	115	70 - 131	3	43		
1,2-Dichloropropane	105	107	70 - 130	2	15		
1,3-Dichloropropane	106	105	70 - 130	1	15		
2,2-Dichloropropane	111	108	57 - 150	3	42		
1,1-Dichloropropene	111	110	70 - 130	1	41		
Ethylbenzene	100	99	70 - 130	1	38		
Hexachlorobutadiene	102	99	64 - 137	3	44		
2-Hexanone	104	102	47 - 148	2	38		
Isopropylbenzene	103	101	70 - 130	2	39		
Methylene bromide	105	106	70 - 130	1	19		

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-389677

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-389677/3	Analysis Batch:	490-389677	Instrument ID:	HP87
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112516-31.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/26/2016 0002	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-389677/5	Analysis Batch:	490-389677	Instrument ID:	HP87
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112516-33.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/26/2016 0102	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	102	102	69 - 130	0	19		
4-Methyl-2-pentanone (MIBK)	111	107	48 - 150	4	41		
Methyl tert butyl ether	104	107	54 - 145	3	36		
m,p-Xylene	99	98	70 - 130	1	38		
Naphthalene	93	92	55 - 149	1	37		
n-Butylbenzene	99	97	57 - 150	2	39		
N-Propylbenzene	101	99	62 - 150	1	38		
o-Chlorotoluene	102	101	70 - 132	1	41		
o-Xylene	96	95	70 - 130	0	38		
p-Chlorotoluene	102	103	67 - 135	2	41		
p-Isopropyltoluene	98	98	66 - 147	0	38		
sec-Butylbenzene	102	100	68 - 147	2	38		
Styrene	91	90	70 - 131	1	40		
tert-Butylbenzene	103	104	70 - 138	1	38		
1,1,1,2-Tetrachloroethane	111	110	70 - 130	1	41		
1,1,2,2-Tetrachloroethane	102	99	61 - 134	3	16		
Tetrachloroethene	111	109	70 - 130	2	41		
Toluene	107	105	70 - 130	2	40		
trans-1,2-Dichloroethene	111	108	70 - 130	2	41		
trans-1,3-Dichloropropene	106	106	67 - 130	1	41		
1,2,3-Trichlorobenzene	93	92	57 - 146	1	42		
1,2,4-Trichlorobenzene	85	85	47 - 150	0	43		
1,1,1-Trichloroethane	114	116	70 - 130	2	41		
1,1,2-Trichloroethane	108	108	70 - 130	0	17		
Trichloroethene	111	111	70 - 130	0	41		
Trichlorofluoromethane	123	122	53 - 150	0	49		
1,2,3-Trichloropropane	101	104	60 - 139	3	16		
1,2,4-Trimethylbenzene	99	99	70 - 140	0	38		
1,3,5-Trimethylbenzene	98	101	69 - 141	3	38		
Vinyl acetate	62	56	10 - 150	11	50		
Vinyl chloride	112	109	63 - 150	3	46		
Xylenes (total)	97	97	70 - 130	1	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	95	96	70 - 130
Dibromofluoromethane (Surr)	102	102	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97	101	70 - 130
Toluene-d8 (Surr)	101	99	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-389707

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116561-A-2-B MS	Analysis Batch:	490-389572	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-389707	Lab File ID:	112516-24.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.34 g
Analysis Date:	11/25/2016 2214			Final Weight/Volume:	5 mL
Prep Date:	11/25/2016 1558				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116561-A-2-C MSD	Analysis Batch:	490-389572	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-389707	Lab File ID:	112516-25.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.01 g
Analysis Date:	11/25/2016 2245			Final Weight/Volume:	5 mL
Prep Date:	11/25/2016 1558				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	77	79	10 - 150	7	50		
Benzene	98	97	21 - 150	5	50		
Bromobenzene	92	92	10 - 150	6	50		
Bromochloromethane	101	99	10 - 150	4	50		
Bromodichloromethane	96	94	10 - 150	4	50		
Bromoform	102	103	10 - 150	7	50		
Bromomethane	103	104	10 - 150	8	50		
2-Butanone (MEK)	95	90	10 - 150	1	50		
Carbon disulfide	93	91	10 - 150	4	50		
Carbon tetrachloride	111	109	10 - 150	5	50		
Chlorobenzene	99	98	10 - 150	6	50		
Chloroethane	95	95	10 - 150	7	50		
Chloroform	95	94	10 - 150	6	50		
Chloromethane	86	84	10 - 150	5	50		
cis-1,2-Dichloroethene	100	99	10 - 150	5	50		
cis-1,3-Dichloropropene	92	92	10 - 150	6	50		
Dibromochloromethane	99	98	10 - 150	6	50		
1,2-Dibromo-3-chloropropane	98	95	10 - 150	4	50		
1,2-Dibromoethane	95	94	10 - 150	6	50		
1,2-Dichlorobenzene	100	100	10 - 150	6	50		
1,3-Dichlorobenzene	104	105	10 - 150	7	50		
1,4-Dichlorobenzene	101	101	10 - 150	6	50		
Dichlorodifluoromethane	125	119	10 - 150	2	50		
1,1-Dichloroethane	95	93	10 - 150	4	50		
1,2-Dichloroethane	94	92	24 - 138	4	50		
1,1-Dichloroethene	103	101	10 - 150	5	50		
1,2-Dichloropropane	88	88	10 - 150	7	50		
1,3-Dichloropropane	90	88	10 - 150	4	50		
2,2-Dichloropropane	113	110	10 - 150	4	50		
1,1-Dichloropropene	97	97	10 - 150	7	50		
Ethylbenzene	100	99	10 - 150	5	50		
Hexachlorobutadiene	77	75	10 - 150	3	50		

Client: Roux Associates, Inc. Job Number: 490-116559-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-389707

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116561-A-2-B MS	Analysis Batch:	490-389572	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-389707	Lab File ID:	112516-24.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.34 g
Analysis Date:	11/25/2016 2214			Final Weight/Volume:	5 mL
Prep Date:	11/25/2016 1558				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116561-A-2-C MSD	Analysis Batch:	490-389572	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-389707	Lab File ID:	112516-25.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.01 g
Analysis Date:	11/25/2016 2245			Final Weight/Volume:	5 mL
Prep Date:	11/25/2016 1558				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2-Hexanone	92	91	10 - 150	6	50		
Isopropylbenzene	102	101	10 - 150	5	50		
Methylene bromide	96	91	10 - 150	1	50		
Methylene Chloride	-227	-219	24 - 150	5	50	*	*
4-Methyl-2-pentanone (MIBK)	92	89	10 - 150	3	50		
Methyl tert butyl ether	105	101	10 - 150	2	50		
m,p-Xylene	100	99	10 - 150	6	50		
Naphthalene	90	91	10 - 150	8	50		
n-Butylbenzene	95	94	10 - 150	6	50		
N-Propylbenzene	104	103	10 - 150	6	50		
o-Chlorotoluene	104	104	10 - 150	6	50		
o-Xylene	99	99	10 - 150	6	50		
p-Chlorotoluene	101	100	10 - 150	5	50		
p-Isopropyltoluene	103	103	10 - 150	6	50		
sec-Butylbenzene	99	100	10 - 150	7	50		
Styrene	91	91	10 - 150	6	50		
tert-Butylbenzene	111	111	10 - 150	7	50		
1,1,1,2-Tetrachloroethane	103	102	10 - 150	5	50		
1,1,2,2-Tetrachloroethane	92	90	10 - 150	4	50		
Tetrachloroethene	110	109	10 - 150	5	50		
Toluene	100	97	17 - 150	3	50		
trans-1,2-Dichloroethene	94	92	10 - 150	4	50		
trans-1,3-Dichloropropene	92	92	10 - 150	7	50		
1,2,3-Trichlorobenzene	90	92	10 - 150	8	50		
1,2,4-Trichlorobenzene	89	90	10 - 150	7	50		
1,1,1-Trichloroethane	106	105	10 - 150	5	50		
1,1,2-Trichloroethane	87	86	10 - 150	5	50		
Trichloroethene	101	99	10 - 150	4	50		
Trichlorofluoromethane	117	122	10 - 150	11	50		
1,2,3-Trichloropropane	95	95	10 - 150	7	50		
1,2,4-Trimethylbenzene	100	103	10 - 150	9	50		
1,3,5-Trimethylbenzene	103	103	10 - 150	6	50		

Client: Roux Associates, Inc. Job Number: 490-116559-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-389707

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116561-A-2-B MS	Analysis Batch:	490-389572	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-389707	Lab File ID:	112516-24.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.34 g
Analysis Date:	11/25/2016 2214			Final Weight/Volume:	5 mL
Prep Date:	11/25/2016 1558				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116561-A-2-C MSD	Analysis Batch:	490-389572	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-389707	Lab File ID:	112516-25.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.01 g
Analysis Date:	11/25/2016 2245			Final Weight/Volume:	5 mL
Prep Date:	11/25/2016 1558				5 mL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Vinyl acetate	112	107	10 - 150	2	50		
Vinyl chloride	100	98	10 - 150	3	50		
Xylenes (total)	99	99	10 - 150	6	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	93	95	70 - 130
Dibromofluoromethane (Surr)	97	99	70 - 130
1,2-Dichloroethane-d4 (Surr)	99	97	70 - 130
Toluene-d8 (Surr)	97	98	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Method Blank - Batch: 490-389824

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-389824/6	Analysis Batch:	490-389824	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112616-06.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/26/2016 1249	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	0.00840	U	0.00840	0.0500
Benzene	0.000670	U	0.000670	0.00200
Bromobenzene	0.000720	U	0.000720	0.00200
Bromochloromethane	0.000550	U	0.000550	0.00200
Bromodichloromethane	0.000550	U	0.000550	0.00200
Bromoform	0.000550	U	0.000550	0.00200
Bromomethane	0.00120	U	0.00120	0.00200
2-Butanone (MEK)	0.00510	U	0.00510	0.0500
Carbon disulfide	0.00360	U	0.00360	0.00500
Carbon tetrachloride	0.000670	U	0.000670	0.00200
Chlorobenzene	0.000670	U	0.000670	0.00200
Chloroethane	0.00190	U	0.00190	0.00500
Chloroform	0.000670	U	0.000670	0.00200
Chloromethane	0.000670	U	0.000670	0.00200
cis-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
cis-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
Dibromochloromethane	0.000340	U	0.000340	0.00200
1,2-Dibromo-3-chloropropane	0.000700	U	0.000700	0.00500
1,2-Dibromoethane	0.00100	U	0.00100	0.00200
1,2-Dichlorobenzene	0.000340	U	0.000340	0.00200
1,3-Dichlorobenzene	0.000670	U	0.000670	0.00200
1,4-Dichlorobenzene	0.000670	U	0.000670	0.00200
Dichlorodifluoromethane	0.00100	U	0.00100	0.00200
1,1-Dichloroethane	0.000670	U	0.000670	0.00200
1,2-Dichloroethane	0.000670	U	0.000670	0.00200
1,1-Dichloroethene	0.000570	U	0.000570	0.00200
1,2-Dichloropropane	0.000940	U	0.000940	0.00200
1,3-Dichloropropane	0.000940	U	0.000940	0.00200
2,2-Dichloropropane	0.000670	U	0.000670	0.00200
1,1-Dichloropropene	0.000510	U	0.000510	0.00200
Ethylbenzene	0.000670	U	0.000670	0.00200
Hexachlorobutadiene	0.00114	U	0.00114	0.00500
2-Hexanone	0.0167	U	0.0167	0.0500
Iodomethane	0.00670	U	0.00670	0.0200
Isopropylbenzene	0.000410	U	0.000410	0.00200
Methylene bromide	0.000560	U	0.000560	0.00200
Methylene Chloride	0.000860	U	0.000860	0.0100
4-Methyl-2-pentanone (MIBK)	0.00190	U	0.00190	0.0500
Methyl tert butyl ether	0.000960	U	0.000960	0.00200
m,p-Xylene	0.000560	U	0.000560	0.00400
Naphthalene	0.00170	U	0.00170	0.00500
n-Butylbenzene	0.000980	U	0.000980	0.00200
N-Propylbenzene	0.000670	U	0.000670	0.00200
o-Chlorotoluene	0.000890	U	0.000890	0.00200
o-Xylene	0.000670	U	0.000670	0.00200

Client: Roux Associates, Inc. Job Number: 490-116559-1

Method Blank - Batch: 490-389824

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-389824/6	Analysis Batch:	490-389824	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112616-06.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/26/2016 1249	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.000840	U	0.000840	0.00200
p-Isopropyltoluene	0.000670	U	0.000670	0.00200
sec-Butylbenzene	0.000670	U	0.000670	0.00200
Styrene	0.00110	U	0.00110	0.00200
tert-Butylbenzene	0.000900	U	0.000900	0.00200
1,1,1,2-Tetrachloroethane	0.000670	U	0.000670	0.00200
1,1,2,2-Tetrachloroethane	0.00100	U	0.00100	0.00200
Tetrachloroethene	0.000730	U	0.000730	0.00200
Toluene	0.000740	U	0.000740	0.00200
trans-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
trans-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
1,2,3-Trichlorobenzene	0.000380	U	0.000380	0.00200
1,2,4-Trichlorobenzene	0.000670	U	0.000670	0.00200
1,1,1-Trichloroethane	0.000920	U	0.000920	0.00200
1,1,2-Trichloroethane	0.00140	U	0.00140	0.00500
Trichloroethene	0.000960	U	0.000960	0.00200
Trichlorofluoromethane	0.00100	U	0.00100	0.00200
1,2,3-Trichloropropane	0.000550	U	0.000550	0.00200
1,2,4-Trimethylbenzene	0.00100	U	0.00100	0.00200
1,3,5-Trimethylbenzene	0.000750	U	0.000750	0.00200
Vinyl acetate	0.00440	U	0.00440	0.0200
Vinyl chloride	0.00110	U	0.00110	0.00200
Xylenes (total)	0.00123	U	0.00123	0.00600

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	120	70 - 130
Dibromofluoromethane (Surr)	102	70 - 130
1,2-Dichloroethane-d4 (Surr)	103	70 - 130
Toluene-d8 (Surr)	97	70 - 130

Method Blank TICs- Batch: 490-389824

Cas Number	Analyte	RT	Est. Result (mg	Qual
91-57-6	2-Methylnaphthalene	12.60	0.002002	J

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-389824

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-389824/3	Analysis Batch:	490-389824	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112616-03.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/26/2016 1116	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-389824/4	Analysis Batch:	490-389824	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112616-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/26/2016 1147	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	90	109	45 - 145	20	38		
Benzene	103	115	70 - 130	11	37		
Bromobenzene	95	100	67 - 130	5	40		
Bromochloromethane	104	116	70 - 133	11	15		
Bromodichloromethane	100	109	70 - 130	8	20		
Bromoform	106	118	59 - 137	11	17		
Bromomethane	105	124	32 - 150	16	45		
2-Butanone (MEK)	99	121	50 - 149	20	39		
Carbon disulfide	97	112	66 - 138	15	41		
Carbon tetrachloride	115	130	70 - 131	12	41		
Chlorobenzene	103	117	70 - 130	12	40		
Chloroethane	93	106	37 - 150	13	50		
Chloroform	100	109	70 - 130	9	15		
Chloromethane	78	85	53 - 150	9	47		
cis-1,2-Dichloroethene	103	116	70 - 132	12	18		
cis-1,3-Dichloropropene	91	103	70 - 130	13	42		
Dibromochloromethane	102	113	70 - 130	10	14		
1,2-Dibromo-3-chloropropane	91	113	47 - 144	21	38		
1,2-Dibromoethane	95	107	69 - 130	12	17		
1,2-Dichlorobenzene	107	121	70 - 134	12	40		
1,3-Dichlorobenzene	112	126	69 - 137	12	41		
1,4-Dichlorobenzene	110	124	66 - 134	12	41		
Dichlorodifluoromethane	108	119	32 - 150	10	50		
1,1-Dichloroethane	97	110	70 - 130	12	42		
1,2-Dichloroethane	95	105	65 - 134	10	16		
1,1-Dichloroethene	107	120	70 - 131	11	43		
1,2-Dichloropropane	92	100	70 - 130	9	15		
1,3-Dichloropropane	90	102	70 - 130	13	15		
2,2-Dichloropropane	115	129	57 - 150	12	42		
1,1-Dichloropropene	98	111	70 - 130	12	41		
Ethylbenzene	101	115	70 - 130	13	38		
Hexachlorobutadiene	101	111	64 - 137	10	44		
2-Hexanone	90	111	47 - 148	21	38		
Isopropylbenzene	101	108	70 - 130	7	39		
Methylene bromide	98	106	70 - 130	8	19		

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-389824

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-389824/3	Analysis Batch:	490-389824	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112616-03.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/26/2016 1116	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-389824/4	Analysis Batch:	490-389824	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112616-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/26/2016 1147	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	98	109	69 - 130	11	19		
4-Methyl-2-pentanone (MIBK)	89	104	48 - 150	16	41		
Methyl tert butyl ether	101	107	54 - 145	6	36		
m,p-Xylene	100	115	70 - 130	14	38		
Naphthalene	87	99	55 - 149	13	37		
n-Butylbenzene	100	112	57 - 150	12	39		
N-Propylbenzene	103	115	62 - 150	10	38		
o-Chlorotoluene	106	118	70 - 132	11	41		
o-Xylene	102	116	70 - 130	13	38		
p-Chlorotoluene	103	118	67 - 135	14	41		
p-Isopropyltoluene	104	116	66 - 147	11	38		
sec-Butylbenzene	100	116	68 - 147	15	38		
Styrene	103	118	70 - 131	14	40		
tert-Butylbenzene	108	125	70 - 138	15	38		
1,1,1,2-Tetrachloroethane	109	122	70 - 130	12	41		
1,1,2,2-Tetrachloroethane	90	99	61 - 134	10	16		
Tetrachloroethene	112	133	70 - 130	17	41		*
Toluene	98	114	70 - 130	15	40		
trans-1,2-Dichloroethene	98	109	70 - 130	11	41		
trans-1,3-Dichloropropene	92	105	67 - 130	13	41		
1,2,3-Trichlorobenzene	100	115	57 - 146	14	42		
1,2,4-Trichlorobenzene	91	100	47 - 150	9	43		
1,1,1-Trichloroethane	110	125	70 - 130	13	41		
1,1,2-Trichloroethane	90	99	70 - 130	10	17		
Trichloroethene	105	117	70 - 130	10	41		
Trichlorofluoromethane	115	126	53 - 150	9	49		
1,2,3-Trichloropropane	95	110	60 - 139	14	16		
1,2,4-Trimethylbenzene	104	118	70 - 140	13	38		
1,3,5-Trimethylbenzene	103	113	69 - 141	10	38		
Vinyl acetate	152	157	10 - 150	3	50	*	*
Vinyl chloride	92	109	63 - 150	17	46		
Xylenes (total)	101	115	70 - 130	13	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	87	86	70 - 130
Dibromofluoromethane (Surr)	100	96	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96	97	70 - 130
Toluene-d8 (Surr)	95	95	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-389909

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116560-8	Analysis Batch:	490-389824	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-389909	Lab File ID:	112616-20.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.23 g
Analysis Date:	11/26/2016 1955			Final Weight/Volume:	5 mL
Prep Date:	11/26/2016 1642				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116560-8	Analysis Batch:	490-389824	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-389909	Lab File ID:	112616-21.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.37 g
Analysis Date:	11/26/2016 2026			Final Weight/Volume:	5 mL
Prep Date:	11/26/2016 1642				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	103	98	10 - 150	7	50		
Benzene	97	98	21 - 150	2	50		
Bromobenzene	103	101	10 - 150	5	50		
Bromochloromethane	101	101	10 - 150	3	50		
Bromodichloromethane	97	97	10 - 150	3	50		
Bromoform	99	95	10 - 150	7	50		
Bromomethane	91	95	10 - 150	1	50		
2-Butanone (MEK)	93	86	10 - 150	10	50		
Carbon disulfide	87	92	10 - 150	3	50		
Carbon tetrachloride	108	108	10 - 150	3	50		
Chlorobenzene	101	100	10 - 150	4	50		
Chloroethane	94	89	10 - 150	8	50		
Chloroform	95	96	10 - 150	2	50		
Chloromethane	79	82	10 - 150	1	50		
cis-1,2-Dichloroethene	99	101	10 - 150	0	50		
cis-1,3-Dichloropropene	98	96	10 - 150	4	50		
Dibromochloromethane	101	99	10 - 150	5	50		
1,2-Dibromo-3-chloropropane	100	93	10 - 150	10	50		
1,2-Dibromoethane	96	92	10 - 150	7	50		
1,2-Dichlorobenzene	102	102	10 - 150	3	50		
1,3-Dichlorobenzene	114	110	10 - 150	6	50		
1,4-Dichlorobenzene	109	107	10 - 150	4	50		
Dichlorodifluoromethane	111	107	10 - 150	6	50		
1,1-Dichloroethane	92	93	10 - 150	1	50		
1,2-Dichloroethane	95	94	24 - 138	4	50		
1,1-Dichloroethene	101	99	10 - 150	5	50		
1,2-Dichloropropane	90	90	10 - 150	3	50		
1,3-Dichloropropane	93	90	10 - 150	5	50		
2,2-Dichloropropane	111	113	10 - 150	1	50		
1,1-Dichloropropene	96	96	10 - 150	3	50		
Ethylbenzene	104	103	10 - 150	3	50		
Hexachlorobutadiene	40	39	10 - 150	4	50		

Client: Roux Associates, Inc. Job Number: 490-116559-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-389909

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116560-8	Analysis Batch:	490-389824	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-389909	Lab File ID:	112616-20.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.23 g
Analysis Date:	11/26/2016 1955			Final Weight/Volume:	5 mL
Prep Date:	11/26/2016 1642				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116560-8	Analysis Batch:	490-389824	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-389909	Lab File ID:	112616-21.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.37 g
Analysis Date:	11/26/2016 2026			Final Weight/Volume:	5 mL
Prep Date:	11/26/2016 1642				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2-Hexanone	87	81	10 - 150	10	50		
Isopropylbenzene	104	103	10 - 150	4	50		
Methylene bromide	96	93	10 - 150	6	50		
Methylene Chloride	104	105	24 - 150	2	50		
4-Methyl-2-pentanone (MIBK)	90	85	10 - 150	8	50		
Methyl tert butyl ether	110	107	10 - 150	6	50		
m,p-Xylene	109	107	10 - 150	4	50		
Naphthalene	79	73	10 - 150	11	50		
n-Butylbenzene	86	87	10 - 150	2	50		
N-Propylbenzene	114	114	10 - 150	3	50		
o-Chlorotoluene	112	113	10 - 150	1	50		
o-Xylene	105	103	10 - 150	4	50		
p-Chlorotoluene	112	111	10 - 150	4	50		
p-Isopropyltoluene	99	101	10 - 150	1	50		
sec-Butylbenzene	97	98	10 - 150	2	50		
Styrene	98	96	10 - 150	5	50		
tert-Butylbenzene	118	118	10 - 150	2	50		
1,1,1,2-Tetrachloroethane	105	103	10 - 150	4	50		
1,1,2,2-Tetrachloroethane	97	92	10 - 150	9	50		
Tetrachloroethene	108	108	10 - 150	3	50		
Toluene	107	107	17 - 150	3	50		
trans-1,2-Dichloroethene	93	93	10 - 150	2	50		
trans-1,3-Dichloropropene	99	96	10 - 150	6	50		
1,2,3-Trichlorobenzene	62	58	10 - 150	9	50		
1,2,4-Trichlorobenzene	74	71	10 - 150	7	50		
1,1,1-Trichloroethane	102	104	10 - 150	1	50		
1,1,2-Trichloroethane	89	88	10 - 150	4	50		
Trichloroethene	101	100	10 - 150	3	50		
Trichlorofluoromethane	106	107	10 - 150	2	50		
1,2,3-Trichloropropane	97	95	10 - 150	5	50		
1,2,4-Trimethylbenzene	123	120	10 - 150	5	50		
1,3,5-Trimethylbenzene	114	114	10 - 150	3	50		

Client: Roux Associates, Inc. Job Number: 490-116559-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-389909

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116560-8	Analysis Batch:	490-389824	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-389909	Lab File ID:	112616-20.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.23 g
Analysis Date:	11/26/2016 1955			Final Weight/Volume:	5 mL
Prep Date:	11/26/2016 1642				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116560-8	Analysis Batch:	490-389824	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-389909	Lab File ID:	112616-21.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.37 g
Analysis Date:	11/26/2016 2026			Final Weight/Volume:	5 mL
Prep Date:	11/26/2016 1642				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Vinyl acetate	155	143	10 - 150	11	50	*	
Vinyl chloride	96	93	10 - 150	6	50		
Xylenes (total)	107	105	10 - 150	4	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	104	101	70 - 130
Dibromofluoromethane (Surr)	98	99	70 - 130
1,2-Dichloroethane-d4 (Surr)	101	98	70 - 130
Toluene-d8 (Surr)	98	98	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Method Blank - Batch: 490-389914

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-389914/8	Analysis Batch:	490-389914	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	11261632.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/27/2016 0026	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	2.00	U	2.00	2.50
Benzene	0.0340	U	0.0340	0.100
Bromobenzene	0.0360	U	0.0360	0.100
Bromochloromethane	0.0280	U	0.0280	0.100
Bromodichloromethane	0.0280	U	0.0280	0.100
Bromoform	0.0280	U	0.0280	0.100
Bromomethane	0.0600	U	0.0600	0.100
2-Butanone (MEK)	0.260	U	0.260	2.50
Carbon disulfide	0.180	U	0.180	0.250
Carbon tetrachloride	0.0340	U	0.0340	0.100
Chlorobenzene	0.0340	U	0.0340	0.100
Chloroethane	0.0950	U	0.0950	0.250
Chloroform	0.0340	U	0.0340	0.100
Chloromethane	0.0340	U	0.0340	0.100
cis-1,2-Dichloroethene	0.0340	U	0.0340	0.100
cis-1,3-Dichloropropene	0.0340	U	0.0340	0.100
Dibromochloromethane	0.0170	U	0.0170	0.100
1,2-Dibromo-3-chloropropane	0.0350	U	0.0350	0.250
1,2-Dibromoethane	0.0500	U	0.0500	0.100
1,2-Dichlorobenzene	0.0170	U	0.0170	0.100
1,3-Dichlorobenzene	0.0340	U	0.0340	0.100
1,4-Dichlorobenzene	0.0470	U	0.0470	0.100
Dichlorodifluoromethane	0.0500	U	0.0500	0.100
1,1-Dichloroethane	0.0340	U	0.0340	0.100
1,2-Dichloroethane	0.0340	U	0.0340	0.100
1,1-Dichloroethene	0.0290	U	0.0290	0.100
1,2-Dichloropropane	0.0470	U	0.0470	0.100
1,3-Dichloropropane	0.0470	U	0.0470	0.100
2,2-Dichloropropane	0.0340	U	0.0340	0.100
1,1-Dichloropropene	0.0260	U	0.0260	0.100
Ethylbenzene	0.0340	U	0.0340	0.100
Hexachlorobutadiene	0.0550	U	0.0550	0.250
2-Hexanone	0.840	U	0.840	2.50
Iodomethane	0.340	U	0.340	1.00
Isopropylbenzene	0.0210	U	0.0210	0.100
Methylene bromide	0.0280	U	0.0280	0.100
Methylene Chloride	0.0500	U	0.0500	0.500
4-Methyl-2-pentanone (MIBK)	0.850	U	0.850	2.50
Methyl tert butyl ether	0.0500	U	0.0500	0.100
m,p-Xylene	0.0280	U	0.0280	0.150
Naphthalene	0.0850	U	0.0850	0.250
n-Butylbenzene	0.0500	U	0.0500	0.100
N-Propylbenzene	0.0340	U	0.0340	0.100
o-Chlorotoluene	0.0460	U	0.0460	0.100
o-Xylene	0.0340	U	0.0340	0.100

Client: Roux Associates, Inc. Job Number: 490-116559-1

Method Blank - Batch: 490-389914 **Method: 8260C**
Preparation: N/A

Lab Sample ID:	MB 490-389914/8	Analysis Batch:	490-389914	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	11261632.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/27/2016 0026	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.0420	U	0.0420	0.100
p-Isopropyltoluene	0.0340	U	0.0340	0.100
sec-Butylbenzene	0.0340	U	0.0340	0.100
Styrene	0.0550	U	0.0550	0.100
tert-Butylbenzene	0.0500	U	0.0500	0.100
1,1,1,2-Tetrachloroethane	0.0340	U	0.0340	0.100
1,1,2,2-Tetrachloroethane	0.0500	U	0.0500	0.100
Tetrachloroethene	0.0340	U	0.0340	0.100
Toluene	0.0370	U	0.0370	0.100
trans-1,2-Dichloroethene	0.0340	U	0.0340	0.100
trans-1,3-Dichloropropene	0.0340	U	0.0340	0.100
1,2,3-Trichlorobenzene	0.02114	J	0.0190	0.100
1,2,4-Trichlorobenzene	0.0340	U	0.0340	0.100
1,1,1-Trichloroethane	0.0460	U	0.0460	0.100
1,1,2-Trichloroethane	0.0700	U	0.0700	0.250
Trichloroethene	0.0500	U	0.0500	0.100
Trichlorofluoromethane	0.0500	U	0.0500	0.100
1,2,3-Trichloropropane	0.0280	U	0.0280	0.100
1,2,4-Trimethylbenzene	0.0500	U	0.0500	0.100
1,3,5-Trimethylbenzene	0.0380	U	0.0380	0.100
Vinyl acetate	0.220	U	0.220	1.00
Vinyl chloride	0.0550	U	0.0550	0.100
Xylenes (total)	0.0620	U	0.0620	0.150

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	92	70 - 130
Dibromofluoromethane (Surr)	98	70 - 130
1,2-Dichloroethane-d4 (Surr)	105	70 - 130
Toluene-d8 (Surr)	100	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-389914

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-389914/5	Analysis Batch:	490-389914	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	11261629.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/26/2016 2304	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-389914/6	Analysis Batch:	490-389914	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	11261630.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/26/2016 2331	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	106	104	45 - 145	2	38		
Benzene	105	103	70 - 130	3	37		
Bromobenzene	93	92	67 - 130	2	40		
Bromochloromethane	107	105	70 - 133	2	15		
Bromodichloromethane	103	99	70 - 130	3	20		
Bromoform	101	98	59 - 137	3	17		
Bromomethane	81	79	32 - 150	2	45		
2-Butanone (MEK)	104	99	50 - 149	5	39		
Carbon disulfide	95	92	66 - 138	3	41		
Carbon tetrachloride	106	104	70 - 131	2	41		
Chlorobenzene	105	103	70 - 130	2	40		
Chloroethane	56	54	37 - 150	3	50		
Chloroform	104	102	70 - 130	2	15		
Chloromethane	115	116	53 - 150	1	47		
cis-1,2-Dichloroethene	103	100	70 - 132	3	18		
cis-1,3-Dichloropropene	98	95	70 - 130	3	42		
Dibromochloromethane	103	101	70 - 130	3	14		
1,2-Dibromo-3-chloropropane	96	93	47 - 144	3	38		
1,2-Dibromoethane	101	97	69 - 130	4	17		
1,2-Dichlorobenzene	103	101	70 - 134	2	40		
1,3-Dichlorobenzene	100	98	69 - 137	2	41		
1,4-Dichlorobenzene	100	97	66 - 134	3	41		
Dichlorodifluoromethane	126	123	32 - 150	2	50		
1,1-Dichloroethane	100	99	70 - 130	1	42		
1,2-Dichloroethane	107	102	65 - 134	4	16		
1,1-Dichloroethene	99	97	70 - 131	2	43		
1,2-Dichloropropane	100	97	70 - 130	3	15		
1,3-Dichloropropane	100	97	70 - 130	2	15		
2,2-Dichloropropane	103	100	57 - 150	3	42		
1,1-Dichloropropene	102	99	70 - 130	3	41		
Ethylbenzene	104	102	70 - 130	2	38		
Hexachlorobutadiene	99	98	64 - 137	2	44		
2-Hexanone	100	97	47 - 148	3	38		
Isopropylbenzene	107	104	70 - 130	2	39		
Methylene bromide	103	101	70 - 130	2	19		

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-389914

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-389914/5	Analysis Batch:	490-389914	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	11261629.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/26/2016 2304	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-389914/6	Analysis Batch:	490-389914	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	11261630.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/26/2016 2331	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	100	97	69 - 130	3	19		
4-Methyl-2-pentanone (MIBK)	100	97	48 - 150	4	41		
Methyl tert butyl ether	106	104	54 - 145	2	36		
m,p-Xylene	103	98	70 - 130	4	38		
Naphthalene	100	97	55 - 149	3	37		
n-Butylbenzene	101	99	57 - 150	2	39		
N-Propylbenzene	95	93	62 - 150	2	38		
o-Chlorotoluene	98	96	70 - 132	2	41		
o-Xylene	104	101	70 - 130	3	38		
p-Chlorotoluene	96	95	67 - 135	1	41		
p-Isopropyltoluene	101	100	66 - 147	1	38		
sec-Butylbenzene	102	100	68 - 147	2	38		
Styrene	104	101	70 - 131	3	40		
tert-Butylbenzene	102	101	70 - 138	0	38		
1,1,1,2-Tetrachloroethane	104	101	70 - 130	3	41		
1,1,2,2-Tetrachloroethane	95	92	61 - 134	3	16		
Tetrachloroethene	101	97	70 - 130	4	41		
Toluene	104	102	70 - 130	2	40		
trans-1,2-Dichloroethene	102	96	70 - 130	7	41		
trans-1,3-Dichloropropene	99	97	67 - 130	3	41		
1,2,3-Trichlorobenzene	97	95	57 - 146	2	42		
1,2,4-Trichlorobenzene	93	90	47 - 150	3	43		
1,1,1-Trichloroethane	106	104	70 - 130	2	41		
1,1,2-Trichloroethane	101	98	70 - 130	2	17		
Trichloroethene	106	101	70 - 130	5	41		
Trichlorofluoromethane	108	95	53 - 150	13	49		
1,2,3-Trichloropropane	98	98	60 - 139	0	16		
1,2,4-Trimethylbenzene	99	99	70 - 140	1	38		
1,3,5-Trimethylbenzene	98	97	69 - 141	1	38		
Vinyl acetate	65	59	10 - 150	10	50		
Vinyl chloride	110	109	63 - 150	1	46		
Xylenes (total)	103	100	70 - 130	3	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	92	92	70 - 130
Dibromofluoromethane (Surr)	102	101	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102	102	70 - 130
Toluene-d8 (Surr)	100	99	70 - 130

Method Blank - Batch: 490-390019

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-390019/8	Analysis Batch:	490-390019	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112816-08.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/28/2016 1251	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	0.420	U	0.420	2.50
Benzene	0.0335	U	0.0335	0.100
Bromobenzene	0.0360	U	0.0360	0.100
Bromochloromethane	0.0275	U	0.0275	0.100
Bromodichloromethane	0.0275	U	0.0275	0.100
Bromoform	0.0275	U	0.0275	0.100
Bromomethane	0.0600	U	0.0600	0.100
2-Butanone (MEK)	0.255	U	0.255	2.50
Carbon disulfide	0.180	U	0.180	0.250
Carbon tetrachloride	0.0335	U	0.0335	0.100
Chlorobenzene	0.0335	U	0.0335	0.100
Chloroethane	0.0950	U	0.0950	0.250
Chloroform	0.0335	U	0.0335	0.100
Chloromethane	0.0335	U	0.0335	0.100
cis-1,2-Dichloroethene	0.0335	U	0.0335	0.100
cis-1,3-Dichloropropene	0.0335	U	0.0335	0.100
Dibromochloromethane	0.0170	U	0.0170	0.100
1,2-Dibromo-3-chloropropane	0.0350	U	0.0350	0.250
1,2-Dibromoethane	0.0500	U	0.0500	0.100
1,2-Dichlorobenzene	0.0170	U	0.0170	0.100
1,3-Dichlorobenzene	0.0335	U	0.0335	0.100
1,4-Dichlorobenzene	0.0335	U	0.0335	0.100
Dichlorodifluoromethane	0.0500	U	0.0500	0.100
1,1-Dichloroethane	0.0335	U	0.0335	0.100
1,2-Dichloroethane	0.0335	U	0.0335	0.100
1,1-Dichloroethene	0.0285	U	0.0285	0.100
1,2-Dichloropropane	0.0470	U	0.0470	0.100
1,3-Dichloropropane	0.0470	U	0.0470	0.100
2,2-Dichloropropane	0.0335	U	0.0335	0.100
1,1-Dichloropropene	0.0255	U	0.0255	0.100
Ethylbenzene	0.0335	U	0.0335	0.100
Hexachlorobutadiene	0.0570	U	0.0570	0.250
2-Hexanone	0.835	U	0.835	2.50
Iodomethane	0.335	U	0.335	1.00
Isopropylbenzene	0.0205	U	0.0205	0.100
Methylene bromide	0.0280	U	0.0280	0.100
Methylene Chloride	0.0430	U	0.0430	0.500
4-Methyl-2-pentanone (MIBK)	0.0950	U	0.0950	2.50
Methyl tert butyl ether	0.0480	U	0.0480	0.100
m,p-Xylene	0.0280	U	0.0280	0.200
Naphthalene	0.0850	U	0.0850	0.250
n-Butylbenzene	0.0490	U	0.0490	0.100
N-Propylbenzene	0.0335	U	0.0335	0.100
o-Chlorotoluene	0.0445	U	0.0445	0.100
o-Xylene	0.0335	U	0.0335	0.100

Client: Roux Associates, Inc. Job Number: 490-116559-1

Method Blank - Batch: 490-390019

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-390019/8	Analysis Batch:	490-390019	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112816-08.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/28/2016 1251	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.0420	U	0.0420	0.100
p-Isopropyltoluene	0.0335	U	0.0335	0.100
sec-Butylbenzene	0.0335	U	0.0335	0.100
Styrene	0.0550	U	0.0550	0.100
tert-Butylbenzene	0.0450	U	0.0450	0.100
1,1,1,2-Tetrachloroethane	0.0335	U	0.0335	0.100
1,1,2,2-Tetrachloroethane	0.0500	U	0.0500	0.100
Tetrachloroethene	0.0365	U	0.0365	0.100
Toluene	0.0370	U	0.0370	0.100
trans-1,2-Dichloroethene	0.0335	U	0.0335	0.100
trans-1,3-Dichloropropene	0.0335	U	0.0335	0.100
1,2,3-Trichlorobenzene	0.0190	U	0.0190	0.100
1,2,4-Trichlorobenzene	0.0335	U	0.0335	0.100
1,1,1-Trichloroethane	0.0460	U	0.0460	0.100
1,1,2-Trichloroethane	0.0700	U	0.0700	0.250
Trichloroethene	0.0480	U	0.0480	0.100
Trichlorofluoromethane	0.0500	U	0.0500	0.100
1,2,3-Trichloropropane	0.0275	U	0.0275	0.100
1,2,4-Trimethylbenzene	0.0500	U	0.0500	0.100
1,3,5-Trimethylbenzene	0.0375	U	0.0375	0.100
Vinyl acetate	0.220	U	0.220	1.00
Vinyl chloride	0.0550	U	0.0550	0.100
Xylenes (total)	0.0615	U	0.0615	0.300

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
Dibromofluoromethane (Surr)	97	70 - 130
1,2-Dichloroethane-d4 (Surr)	92	70 - 130
Toluene-d8 (Surr)	98	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Method Blank - Batch: 490-390019

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-390019/9	Analysis Batch:	490-390019	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112816-09.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/28/2016 1321	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	0.00840	U	0.00840	0.0500
Benzene	0.000670	U	0.000670	0.00200
Bromobenzene	0.000720	U	0.000720	0.00200
Bromochloromethane	0.000550	U	0.000550	0.00200
Bromodichloromethane	0.000550	U	0.000550	0.00200
Bromoform	0.000550	U	0.000550	0.00200
Bromomethane	0.00120	U	0.00120	0.00200
2-Butanone (MEK)	0.00510	U	0.00510	0.0500
Carbon disulfide	0.00360	U	0.00360	0.00500
Carbon tetrachloride	0.000670	U	0.000670	0.00200
Chlorobenzene	0.000670	U	0.000670	0.00200
Chloroethane	0.00190	U	0.00190	0.00500
Chloroform	0.000670	U	0.000670	0.00200
Chloromethane	0.000670	U	0.000670	0.00200
cis-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
cis-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
Dibromochloromethane	0.000340	U	0.000340	0.00200
1,2-Dibromo-3-chloropropane	0.000700	U	0.000700	0.00500
1,2-Dibromoethane	0.00100	U	0.00100	0.00200
1,2-Dichlorobenzene	0.000340	U	0.000340	0.00200
1,3-Dichlorobenzene	0.000670	U	0.000670	0.00200
1,4-Dichlorobenzene	0.000670	U	0.000670	0.00200
Dichlorodifluoromethane	0.00100	U	0.00100	0.00200
1,1-Dichloroethane	0.000670	U	0.000670	0.00200
1,2-Dichloroethane	0.000670	U	0.000670	0.00200
1,1-Dichloroethene	0.000570	U	0.000570	0.00200
1,2-Dichloropropane	0.000940	U	0.000940	0.00200
1,3-Dichloropropane	0.000940	U	0.000940	0.00200
2,2-Dichloropropane	0.000670	U	0.000670	0.00200
1,1-Dichloropropene	0.000510	U	0.000510	0.00200
Ethylbenzene	0.000670	U	0.000670	0.00200
Hexachlorobutadiene	0.00114	U	0.00114	0.00500
2-Hexanone	0.0167	U	0.0167	0.0500
Iodomethane	0.00670	U	0.00670	0.0200
Isopropylbenzene	0.000410	U	0.000410	0.00200
Methylene bromide	0.000560	U	0.000560	0.00200
Methylene Chloride	0.000860	U	0.000860	0.0100
4-Methyl-2-pentanone (MIBK)	0.00190	U	0.00190	0.0500
Methyl tert butyl ether	0.000960	U	0.000960	0.00200
m,p-Xylene	0.000560	U	0.000560	0.00400
Naphthalene	0.00170	U	0.00170	0.00500
n-Butylbenzene	0.000980	U	0.000980	0.00200
N-Propylbenzene	0.000670	U	0.000670	0.00200
o-Chlorotoluene	0.000890	U	0.000890	0.00200
o-Xylene	0.000670	U	0.000670	0.00200

Client: Roux Associates, Inc. Job Number: 490-116559-1

Method Blank - Batch: 490-390019

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-390019/9	Analysis Batch:	490-390019	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112816-09.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/28/2016 1321	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.000840	U	0.000840	0.00200
p-Isopropyltoluene	0.000670	U	0.000670	0.00200
sec-Butylbenzene	0.000670	U	0.000670	0.00200
Styrene	0.00110	U	0.00110	0.00200
tert-Butylbenzene	0.000900	U	0.000900	0.00200
1,1,1,2-Tetrachloroethane	0.000670	U	0.000670	0.00200
1,1,2,2-Tetrachloroethane	0.00100	U	0.00100	0.00200
Tetrachloroethene	0.000730	U	0.000730	0.00200
Toluene	0.000740	U	0.000740	0.00200
trans-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
trans-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
1,2,3-Trichlorobenzene	0.000380	U	0.000380	0.00200
1,2,4-Trichlorobenzene	0.000670	U	0.000670	0.00200
1,1,1-Trichloroethane	0.000920	U	0.000920	0.00200
1,1,2-Trichloroethane	0.00140	U	0.00140	0.00500
Trichloroethene	0.000960	U	0.000960	0.00200
Trichlorofluoromethane	0.00100	U	0.00100	0.00200
1,2,3-Trichloropropane	0.000550	U	0.000550	0.00200
1,2,4-Trimethylbenzene	0.00100	U	0.00100	0.00200
1,3,5-Trimethylbenzene	0.000750	U	0.000750	0.00200
Vinyl acetate	0.00440	U	0.00440	0.0200
Vinyl chloride	0.00110	U	0.00110	0.00200
Xylenes (total)	0.00123	U	0.00123	0.00600

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	100	70 - 130
Dibromofluoromethane (Surr)	97	70 - 130
1,2-Dichloroethane-d4 (Surr)	94	70 - 130
Toluene-d8 (Surr)	97	70 - 130

Method Blank TICs- Batch: 490-390019

Cas Number	Analyte	RT	Est. Result (mg	Qual
556-67-2	Cyclotetrasiloxane, octamethyl-	8.10	0.007871	J N
541-05-9	Cyclotrisiloxane, hexamethyl-	6.02	0.007368	J N
4030-53-9	N,N'-Bis-3-oxapentamethyleneformamidinum dithiocarbo:	1.32	0.03661	J N
420-45-1	Propane, 2,2-difluoro-	2.93	0.02210	J N

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-390019

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-390019/4	Analysis Batch:	490-390019	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112816-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/28/2016 1040	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-390019/5	Analysis Batch:	490-390019	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112816-05.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/28/2016 1111	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	102	102	45 - 145	1	38		
Benzene	112	105	70 - 130	6	37		
Bromobenzene	108	104	67 - 130	4	40		
Bromochloromethane	106	104	70 - 133	2	15		
Bromodichloromethane	104	99	70 - 130	5	20		
Bromoform	111	107	59 - 137	3	17		
Bromomethane	112	112	32 - 150	0	45		
2-Butanone (MEK)	112	110	50 - 149	2	39		
Carbon disulfide	114	111	66 - 138	2	41		
Carbon tetrachloride	126	117	70 - 131	8	41		
Chlorobenzene	116	112	70 - 130	3	40		
Chloroethane	91	89	37 - 150	2	50		
Chloroform	105	99	70 - 130	5	15		
Chloromethane	150	142	53 - 150	5	47		
cis-1,2-Dichloroethene	112	108	70 - 132	4	18		
cis-1,3-Dichloropropene	107	103	70 - 130	3	42		
Dibromochloromethane	109	103	70 - 130	5	14		
1,2-Dibromo-3-chloropropane	115	112	47 - 144	3	38		
1,2-Dibromoethane	105	101	69 - 130	4	17		
1,2-Dichlorobenzene	116	113	70 - 134	3	40		
1,3-Dichlorobenzene	128	122	69 - 137	4	41		
1,4-Dichlorobenzene	122	120	66 - 134	2	41		
Dichlorodifluoromethane	135	133	32 - 150	2	50		
1,1-Dichloroethane	108	100	70 - 130	7	42		
1,2-Dichloroethane	100	96	65 - 134	4	16		
1,1-Dichloroethene	120	114	70 - 131	5	43		
1,2-Dichloropropane	99	92	70 - 130	7	15		
1,3-Dichloropropane	99	96	70 - 130	3	15		
2,2-Dichloropropane	127	121	57 - 150	4	42		
1,1-Dichloropropene	113	109	70 - 130	4	41		
Ethylbenzene	119	115	70 - 130	3	38		
Hexachlorobutadiene	115	109	64 - 137	5	44		
2-Hexanone	110	111	47 - 148	0	38		
Isopropylbenzene	121	117	70 - 130	4	39		
Methylene bromide	99	96	70 - 130	2	19		

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-390019

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-390019/4	Analysis Batch:	490-390019	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112816-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/28/2016 1040	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-390019/5	Analysis Batch:	490-390019	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112816-05.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/28/2016 1111	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	83	100	69 - 130	18	19		
4-Methyl-2-pentanone (MIBK)	102	102	48 - 150	0	41		
Methyl tert butyl ether	106	102	54 - 145	4	36		
m,p-Xylene	120	116	70 - 130	4	38		
Naphthalene	117	115	55 - 149	2	37		
n-Butylbenzene	121	119	57 - 150	1	39		
N-Propylbenzene	125	121	62 - 150	3	38		
o-Chlorotoluene	122	120	70 - 132	2	41		
o-Xylene	118	113	70 - 130	5	38		
p-Chlorotoluene	119	118	67 - 135	1	41		
p-Isopropyltoluene	125	120	66 - 147	4	38		
sec-Butylbenzene	122	117	68 - 147	4	38		
Styrene	120	115	70 - 131	4	40		
tert-Butylbenzene	134	127	70 - 138	5	38		
1,1,1,2-Tetrachloroethane	116	111	70 - 130	5	41		
1,1,2,2-Tetrachloroethane	99	100	61 - 134	1	16		
Tetrachloroethene	125	121	70 - 130	4	41		
Toluene	113	109	70 - 130	4	40		
trans-1,2-Dichloroethene	109	103	70 - 130	6	41		
trans-1,3-Dichloropropene	106	104	67 - 130	1	41		
1,2,3-Trichlorobenzene	124	119	57 - 146	4	42		
1,2,4-Trichlorobenzene	122	119	47 - 150	3	43		
1,1,1-Trichloroethane	119	112	70 - 130	6	41		
1,1,2-Trichloroethane	94	90	70 - 130	4	17		
Trichloroethene	114	109	70 - 130	4	41		
Trichlorofluoromethane	128	122	53 - 150	5	49		
1,2,3-Trichloropropane	103	101	60 - 139	2	16		
1,2,4-Trimethylbenzene	121	118	70 - 140	3	38		
1,3,5-Trimethylbenzene	130	128	69 - 141	2	38		
Vinyl acetate	157	179	10 - 150	13	50	*	*
Vinyl chloride	111	108	63 - 150	3	46		
Xylenes (total)	119	115	70 - 130	4	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	92	95	70 - 130
Dibromofluoromethane (Surr)	94	95	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94	94	70 - 130
Toluene-d8 (Surr)	99	98	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-390019

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-390019/23	Analysis Batch:	490-390019	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112816-23.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/28/2016 2031	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-390019/24	Analysis Batch:	490-390019	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112816-24.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/28/2016 2101	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	89	80	45 - 145	11	38		
Benzene	100	100	70 - 130	0	37		
Bromobenzene	95	96	67 - 130	1	40		
Bromochloromethane	106	102	70 - 133	4	15		
Bromodichloromethane	100	98	70 - 130	2	20		
Bromoform	107	104	59 - 137	3	17		
Bromomethane	104	103	32 - 150	1	45		
2-Butanone (MEK)	101	91	50 - 149	10	39		
Carbon disulfide	95	95	66 - 138	1	41		
Carbon tetrachloride	110	110	70 - 131	0	41		
Chlorobenzene	101	102	70 - 130	1	40		
Chloroethane	82	94	37 - 150	13	50		
Chloroform	99	96	70 - 130	3	15		
Chloromethane	124	126	53 - 150	1	47		
cis-1,2-Dichloroethene	103	103	70 - 132	0	18		
cis-1,3-Dichloropropene	97	96	70 - 130	1	42		
Dibromochloromethane	101	103	70 - 130	2	14		
1,2-Dibromo-3-chloropropane	107	105	47 - 144	2	38		
1,2-Dibromoethane	99	97	69 - 130	2	17		
1,2-Dichlorobenzene	103	103	70 - 134	1	40		
1,3-Dichlorobenzene	104	107	69 - 137	3	41		
1,4-Dichlorobenzene	103	102	66 - 134	1	41		
Dichlorodifluoromethane	94	113	32 - 150	18	50		
1,1-Dichloroethane	96	95	70 - 130	1	42		
1,2-Dichloroethane	97	96	65 - 134	2	16		
1,1-Dichloroethene	103	105	70 - 131	2	43		
1,2-Dichloropropane	93	91	70 - 130	2	15		
1,3-Dichloropropane	94	94	70 - 130	0	15		
2,2-Dichloropropane	113	113	57 - 150	0	42		
1,1-Dichloropropene	98	97	70 - 130	2	41		
Ethylbenzene	102	103	70 - 130	0	38		
Hexachlorobutadiene	97	97	64 - 137	1	44		
2-Hexanone	97	93	47 - 148	4	38		
Isopropylbenzene	105	105	70 - 130	0	39		
Methylene bromide	97	96	70 - 130	2	19		

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-390019

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-390019/23	Analysis Batch:	490-390019	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112816-23.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/28/2016 2031	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-390019/24	Analysis Batch:	490-390019	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	112816-24.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/28/2016 2101	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	98	97	69 - 130	1	19		
4-Methyl-2-pentanone (MIBK)	95	90	48 - 150	5	41		
Methyl tert butyl ether	109	107	54 - 145	1	36		
m,p-Xylene	102	102	70 - 130	0	38		
Naphthalene	111	109	55 - 149	1	37		
n-Butylbenzene	99	99	57 - 150	0	39		
N-Propylbenzene	104	105	62 - 150	1	38		
o-Chlorotoluene	103	106	70 - 132	3	41		
o-Xylene	102	103	70 - 130	0	38		
p-Chlorotoluene	100	103	67 - 135	3	41		
p-Isopropyltoluene	105	104	66 - 147	1	38		
sec-Butylbenzene	103	104	68 - 147	1	38		
Styrene	104	105	70 - 131	1	40		
tert-Butylbenzene	116	117	70 - 138	1	38		
1,1,1,2-Tetrachloroethane	107	107	70 - 130	0	41		
1,1,2,2-Tetrachloroethane	94	92	61 - 134	3	16		
Tetrachloroethene	107	109	70 - 130	1	41		
Toluene	98	98	70 - 130	1	40		
trans-1,2-Dichloroethene	96	94	70 - 130	2	41		
trans-1,3-Dichloropropene	98	98	67 - 130	0	41		
1,2,3-Trichlorobenzene	107	107	57 - 146	0	42		
1,2,4-Trichlorobenzene	105	103	47 - 150	1	43		
1,1,1-Trichloroethane	105	107	70 - 130	2	41		
1,1,2-Trichloroethane	90	89	70 - 130	1	17		
Trichloroethene	101	102	70 - 130	1	41		
Trichlorofluoromethane	114	112	53 - 150	2	49		
1,2,3-Trichloropropane	95	90	60 - 139	5	16		
1,2,4-Trimethylbenzene	106	108	70 - 140	2	38		
1,3,5-Trimethylbenzene	112	110	69 - 141	2	38		
Vinyl acetate	83	78	10 - 150	6	50		
Vinyl chloride	98	94	63 - 150	4	46		
Xylenes (total)	102	102	70 - 130	0	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	94	95	70 - 130
Dibromofluoromethane (Surr)	97	98	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97	98	70 - 130
Toluene-d8 (Surr)	97	98	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Method Blank - Batch: 490-390303

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-390303/6	Analysis Batch:	490-390303	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	11291606.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/29/2016 1152	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	2.00	U	2.00	2.50
Benzene	0.0340	U	0.0340	0.100
Bromobenzene	0.0360	U	0.0360	0.100
Bromochloromethane	0.0280	U	0.0280	0.100
Bromodichloromethane	0.0280	U	0.0280	0.100
Bromoform	0.0280	U	0.0280	0.100
Bromomethane	0.0600	U	0.0600	0.100
2-Butanone (MEK)	0.260	U	0.260	2.50
Carbon disulfide	0.180	U	0.180	0.250
Carbon tetrachloride	0.0340	U	0.0340	0.100
Chlorobenzene	0.0340	U	0.0340	0.100
Chloroethane	0.0950	U	0.0950	0.250
Chloroform	0.0340	U	0.0340	0.100
Chloromethane	0.0340	U	0.0340	0.100
cis-1,2-Dichloroethene	0.0340	U	0.0340	0.100
cis-1,3-Dichloropropene	0.0340	U	0.0340	0.100
Dibromochloromethane	0.0170	U	0.0170	0.100
1,2-Dibromo-3-chloropropane	0.0350	U	0.0350	0.250
1,2-Dibromoethane	0.0500	U	0.0500	0.100
1,2-Dichlorobenzene	0.0170	U	0.0170	0.100
1,3-Dichlorobenzene	0.0340	U	0.0340	0.100
1,4-Dichlorobenzene	0.0470	U	0.0470	0.100
Dichlorodifluoromethane	0.0500	U	0.0500	0.100
1,1-Dichloroethane	0.0340	U	0.0340	0.100
1,2-Dichloroethane	0.0340	U	0.0340	0.100
1,1-Dichloroethene	0.0290	U	0.0290	0.100
1,2-Dichloropropane	0.0470	U	0.0470	0.100
1,3-Dichloropropane	0.0470	U	0.0470	0.100
2,2-Dichloropropane	0.0340	U	0.0340	0.100
1,1-Dichloropropene	0.0260	U	0.0260	0.100
Ethylbenzene	0.0340	U	0.0340	0.100
Hexachlorobutadiene	0.0550	U	0.0550	0.250
2-Hexanone	0.840	U	0.840	2.50
Iodomethane	0.4942	J	0.340	1.00
Isopropylbenzene	0.0210	U	0.0210	0.100
Methylene bromide	0.0280	U	0.0280	0.100
Methylene Chloride	0.0500	U	0.0500	0.500
4-Methyl-2-pentanone (MIBK)	0.850	U	0.850	2.50
Methyl tert butyl ether	0.0500	U	0.0500	0.100
m,p-Xylene	0.0280	U	0.0280	0.150
Naphthalene	0.0850	U	0.0850	0.250
n-Butylbenzene	0.0500	U	0.0500	0.100
N-Propylbenzene	0.0340	U	0.0340	0.100
o-Chlorotoluene	0.0460	U	0.0460	0.100
o-Xylene	0.0340	U	0.0340	0.100

Client: Roux Associates, Inc. Job Number: 490-116559-1

Method Blank - Batch: 490-390303 **Method: 8260C**
Preparation: N/A

Lab Sample ID:	MB 490-390303/6	Analysis Batch:	490-390303	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	11291606.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/29/2016 1152	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.0420	U	0.0420	0.100
p-Isopropyltoluene	0.0340	U	0.0340	0.100
sec-Butylbenzene	0.0340	U	0.0340	0.100
Styrene	0.0550	U	0.0550	0.100
tert-Butylbenzene	0.0500	U	0.0500	0.100
1,1,1,2-Tetrachloroethane	0.0340	U	0.0340	0.100
1,1,2,2-Tetrachloroethane	0.0500	U	0.0500	0.100
Tetrachloroethene	0.0340	U	0.0340	0.100
Toluene	0.0370	U	0.0370	0.100
trans-1,2-Dichloroethene	0.0340	U	0.0340	0.100
trans-1,3-Dichloropropene	0.0340	U	0.0340	0.100
1,2,3-Trichlorobenzene	0.0190	U	0.0190	0.100
1,2,4-Trichlorobenzene	0.0340	U	0.0340	0.100
1,1,1-Trichloroethane	0.0460	U	0.0460	0.100
1,1,2-Trichloroethane	0.0700	U	0.0700	0.250
Trichloroethene	0.0500	U	0.0500	0.100
Trichlorofluoromethane	0.0500	U	0.0500	0.100
1,2,3-Trichloropropane	0.0280	U	0.0280	0.100
1,2,4-Trimethylbenzene	0.0500	U	0.0500	0.100
1,3,5-Trimethylbenzene	0.0380	U	0.0380	0.100
Vinyl acetate	0.220	U	0.220	1.00
Vinyl chloride	0.0550	U	0.0550	0.100
Xylenes (total)	0.0620	U	0.0620	0.150

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	94	70 - 130
Dibromofluoromethane (Surr)	101	70 - 130
1,2-Dichloroethane-d4 (Surr)	92	70 - 130
Toluene-d8 (Surr)	100	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-390303

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-390303/3	Analysis Batch:	490-390303	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	11291603.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/29/2016 1029	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-390303/4	Analysis Batch:	490-390303	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	11291604.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/29/2016 1057	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	68	71	45 - 145	4	38		
Benzene	117	120	70 - 130	2	37		
Bromobenzene	100	102	67 - 130	2	40		
Bromochloromethane	116	115	70 - 133	1	15		
Bromodichloromethane	114	111	70 - 130	2	20		
Bromoform	96	95	59 - 137	2	17		
Bromomethane	91	142	32 - 150	44	45		
2-Butanone (MEK)	69	72	50 - 149	4	39		
Carbon disulfide	109	113	66 - 138	4	41		
Carbon tetrachloride	129	132	70 - 131	3	41		*
Chlorobenzene	121	124	70 - 130	2	40		
Chloroethane	92	120	37 - 150	26	50		
Chloroform	118	121	70 - 130	2	15		
Chloromethane	131	133	53 - 150	1	47		
cis-1,2-Dichloroethene	116	118	70 - 132	1	18		
cis-1,3-Dichloropropene	106	110	70 - 130	4	42		
Dibromochloromethane	109	107	70 - 130	2	14		
1,2-Dibromo-3-chloropropane	76	79	47 - 144	4	38		
1,2-Dibromoethane	93	95	69 - 130	3	17		
1,2-Dichlorobenzene	116	119	70 - 134	2	40		
1,3-Dichlorobenzene	120	123	69 - 137	2	41		
1,4-Dichlorobenzene	119	122	66 - 134	2	41		
Dichlorodifluoromethane	160	164	32 - 150	2	50	*	*
1,1-Dichloroethane	113	116	70 - 130	3	42		
1,2-Dichloroethane	104	105	65 - 134	1	16		
1,1-Dichloroethene	113	119	70 - 131	6	43		
1,2-Dichloropropane	107	108	70 - 130	1	15		
1,3-Dichloropropane	95	97	70 - 130	2	15		
2,2-Dichloropropane	121	124	57 - 150	2	42		
1,1-Dichloropropene	118	122	70 - 130	4	41		
Ethylbenzene	119	124	70 - 130	4	38		
Hexachlorobutadiene	127	136	64 - 137	7	44		
2-Hexanone	69	72	47 - 148	4	38		
Isopropylbenzene	123	126	70 - 130	2	39		
Methylene bromide	99	97	70 - 130	1	19		

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-390303

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-390303/3	Analysis Batch:	490-390303	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	11291603.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/29/2016 1029	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-390303/4	Analysis Batch:	490-390303	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	11291604.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	11/29/2016 1057	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	107	108	69 - 130	1	19		
4-Methyl-2-pentanone (MIBK)	72	74	48 - 150	3	41		
Methyl tert butyl ether	99	100	54 - 145	1	36		
m,p-Xylene	119	124	70 - 130	4	38		
Naphthalene	88	94	55 - 149	7	37		
n-Butylbenzene	122	126	57 - 150	3	39		
N-Propylbenzene	111	115	62 - 150	3	38		
o-Chlorotoluene	115	118	70 - 132	3	41		
o-Xylene	117	121	70 - 130	3	38		
p-Chlorotoluene	115	117	67 - 135	2	41		
p-Isopropyltoluene	121	125	66 - 147	4	38		
sec-Butylbenzene	120	124	68 - 147	3	38		
Styrene	118	120	70 - 131	2	40		
tert-Butylbenzene	122	125	70 - 138	3	38		
1,1,1,2-Tetrachloroethane	121	123	70 - 130	2	41		
1,1,2,2-Tetrachloroethane	81	82	61 - 134	1	16		
Tetrachloroethene	125	130	70 - 130	3	41		
Toluene	118	123	70 - 130	4	40		
trans-1,2-Dichloroethene	116	120	70 - 130	3	41		
trans-1,3-Dichloropropene	104	105	67 - 130	1	41		
1,2,3-Trichlorobenzene	113	118	57 - 146	4	42		
1,2,4-Trichlorobenzene	114	119	47 - 150	4	43		
1,1,1-Trichloroethane	126	129	70 - 130	2	41		
1,1,2-Trichloroethane	97	99	70 - 130	2	17		
Trichloroethene	123	128	70 - 130	4	41		
Trichlorofluoromethane	130	128	53 - 150	1	49		
1,2,3-Trichloropropane	79	78	60 - 139	1	16		
1,2,4-Trimethylbenzene	119	123	70 - 140	3	38		
1,3,5-Trimethylbenzene	118	120	69 - 141	2	38		
Vinyl acetate	97	94	10 - 150	3	50		
Vinyl chloride	128	132	63 - 150	3	46		
Xylenes (total)	118	122	70 - 130	4	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	91	90	70 - 130
Dibromofluoromethane (Surr)	103	100	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116559-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	88	87	70 - 130
Toluene-d8 (Surr)	101	103	70 - 130

Method Blank - Batch: 490-389971

Method: 8270D
Preparation: 3550C

Lab Sample ID:	MB 490-389971/1-A	Analysis Batch:	490-390308	Instrument ID:	HP83
Client Matrix:	Solid	Prep Batch:	490-389971	Lab File ID:	112916-033.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	11/29/2016 1929	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1756			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	0.0320	U	0.0320	0.0670
Acenaphthylene	0.0290	U	0.0290	0.0670
Aniline	0.253	U	0.253	0.670
Anthracene	0.0290	U	0.0290	0.0670
Benzidine	0.204	U	0.204	0.333
Benzo(a)anthracene	0.0300	U	0.0300	0.0670
Benzo(a)pyrene	0.0270	U	0.0270	0.0670
Benzo(b)fluoranthene	0.0280	U	0.0280	0.0670
Benzo(g,h,i)perylene	0.0330	U	0.0330	0.0670
Benzoic acid	0.0600	U	0.0600	0.333
Benzo(k)fluoranthene	0.0270	U	0.0270	0.0670
Benzyl alcohol	0.194	U	0.194	0.333
Bis(2-chloroethoxy)methane	0.200	U	0.200	0.333
Bis(2-chloroethyl)ether	0.213	U	0.213	0.333
bis (2-chloroisopropyl) ether	0.198	U	0.198	0.333
Bis(2-ethylhexyl)phthalate	0.207	U	0.207	0.333
4-Bromophenyl phenyl ether	0.205	U	0.205	0.333
Butyl benzyl phthalate	0.215	U	0.215	0.333
Carbazole	0.207	U	0.207	0.333
4-Chloroaniline	0.227	U	0.227	0.333
4-Chloro-3-methylphenol	0.168	U	0.168	0.333
2-Chloronaphthalene	0.209	U	0.209	0.333
2-Chlorophenol	0.191	U	0.191	0.333
4-Chlorophenyl phenyl ether	0.201	U	0.201	0.333
Chrysene	0.0370	U	0.0370	0.0670
Dibenzo(a,h)anthracene	0.0320	U	0.0320	0.0670
Dibenzofuran	0.210	U	0.210	0.333
1,2-Dichlorobenzene	0.190	U	0.190	0.333
1,3-Dichlorobenzene	0.190	U	0.190	0.333
1,4-Dichlorobenzene	0.196	U	0.196	0.333
3,3'-Dichlorobenzidine	0.204	U	0.204	0.670
2,4-Dichlorophenol	0.175	U	0.175	0.333
Diethyl phthalate	0.212	U	0.212	0.333
2,4-Dimethylphenol	0.335	U	0.335	0.670
Dimethyl phthalate	0.207	U	0.207	0.333
Di-n-butyl phthalate	0.211	U	0.211	0.333
4,6-Dinitro-o-cresol	0.229	U	0.229	0.333
2,4-Dinitrophenol	0.251	U	0.251	0.333
2,4-Dinitrotoluene	0.208	U	0.208	0.333
2,6-Dinitrotoluene	0.223	U	0.223	0.333
Di-n-octyl phthalate	0.178	U	0.178	0.333
1,2-Diphenylhydrazine (as Azobenzene)	0.234	U	0.234	0.333
Fluoranthene	0.0340	U	0.0340	0.0670
Fluorene	0.0290	U	0.0290	0.0670
Hexachlorobenzene	0.250	U	0.250	0.333

Client: Roux Associates, Inc. Job Number: 490-116559-1

Method Blank - Batch: 490-389971

Method: 8270D
Preparation: 3550C

Lab Sample ID:	MB 490-389971/1-A	Analysis Batch:	490-390308	Instrument ID:	HP83
Client Matrix:	Solid	Prep Batch:	490-389971	Lab File ID:	112916-033.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	11/29/2016 1929	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1756			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Hexachlorobutadiene	0.167	U	0.167	0.333
Hexachlorocyclopentadiene	0.150	U	0.150	0.333
Hexachloroethane	0.181	U	0.181	0.333
Ideno(1,2,3-cd)pyrene	0.0290	U	0.0290	0.0670
Isophorone	0.188	U	0.188	0.333
1-Methylnaphthalene	0.0280	U	0.0280	0.0670
2-Methylnaphthalene	0.0260	U	0.0260	0.0670
Naphthalene	0.0290	U	0.0290	0.0670
2-Nitroaniline	0.207	U	0.207	0.333
3-Nitroaniline	0.230	U	0.230	0.670
4-Nitroaniline	0.238	U	0.238	0.670
Nitrobenzene	0.201	U	0.201	0.333
2-Nitrophenol	0.243	U	0.243	0.333
4-Nitrophenol	0.382	U	0.382	0.670
N-Nitrosodimethylamine	0.0200	U	0.0200	0.333
N-Nitrosodi-n-propylamine	0.194	U	0.194	0.333
N-Nitrosodiphenylamine	0.0530	U	0.0530	0.333
Pentachlorophenol	0.266	U	0.266	0.670
Phenanthrene	0.0340	U	0.0340	0.0670
Phenol	0.203	U	0.203	0.333
Pyrene	0.0340	U	0.0340	0.0670
Pyridine	0.199	U	0.199	0.670
1,2,4-Trichlorobenzene	0.181	U	0.181	0.333
2,4,5-Trichlorophenol	0.218	U	0.218	0.333
2,4,6-Trichlorophenol	0.192	U	0.192	0.333

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	79	29 - 120
2-Fluorophenol (Surr)	53	10 - 120
Nitrobenzene-d5 (Surr)	104	27 - 120
Phenol-d5 (Surr)	73	10 - 120
Terphenyl-d14 (Surr)	83	13 - 120
2,4,6-Tribromophenol (Surr)	28	10 - 120

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-389971

Method: 8270D
Preparation: 3550C

LCS Lab Sample ID:	LCS 490-389971/2-A	Analysis Batch:	490-390308	Instrument ID:	HP83
Client Matrix:	Solid	Prep Batch:	490-389971	Lab File ID:	112916-034.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	11/29/2016 1948	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1756			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-389971/4-A	Analysis Batch:	490-390308	Instrument ID:	HP83
Client Matrix:	Solid	Prep Batch:	490-389971	Lab File ID:	112916-036.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	11/29/2016 2027	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1756			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acenaphthene	67	78	36 - 120	15	50		
Acenaphthylene	68	79	38 - 120	14	50		
Aniline	64	78	10 - 150	20	50		
Anthracene	74	87	46 - 124	16	49		
Benzidine	4	5	10 - 150	25	50	U *	U *
Benzo(a)anthracene	67	81	45 - 120	18	50		
Benzo(a)pyrene	66	77	45 - 120	15	50		
Benzo(b)fluoranthene	71	82	42 - 120	14	50		
Benzo(g,h,i)perylene	72	84	38 - 120	15	50		
Benzoic acid	14	29	10 - 150	68	50	J	*
Benzo(k)fluoranthene	74	86	42 - 120	15	45		
Benzyl alcohol	69	86	43 - 131	22	50		
Bis(2-chloroethoxy)methane	69	78	32 - 120	13	50		
Bis(2-chloroethyl)ether	66	78	31 - 120	17	50		
bis (2-chloroisopropyl) ether	62	72	32 - 120	15	50		
Bis(2-ethylhexyl)phthalate	72	88	43 - 120	20	50		
4-Bromophenyl phenyl ether	56	65	40 - 120	14	37		
Butyl benzyl phthalate	65	78	43 - 133	18	50		
Carbazole	75	87	44 - 120	15	46		
4-Chloroaniline	63	74	35 - 120	16	50		
4-Chloro-3-methylphenol	81	93	38 - 120	13	49		
2-Chloronaphthalene	65	77	34 - 120	17	50		
2-Chlorophenol	59	69	32 - 120	15	50		
4-Chlorophenyl phenyl ether	62	73	42 - 120	16	50		
Chrysene	70	82	43 - 120	17	49		
Dibenzo(a,h)anthracene	63	75	32 - 128	17	50		
Dibenzofuran	69	77	41 - 120	11	50		
1,2-Dichlorobenzene	57	67	33 - 120	16	50		
1,3-Dichlorobenzene	58	63	32 - 120	9	50		
1,4-Dichlorobenzene	58	66	32 - 120	14	50		
3,3'-Dichlorobenzidine	34	40	39 - 120	15	50	J *	
2,4-Dichlorophenol	65	76	32 - 120	16	50		
Diethyl phthalate	70	81	41 - 122	14	45		
2,4-Dimethylphenol	70	78	32 - 120	11	50		
Dimethyl phthalate	67	79	55 - 120	16	46		

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-389971

Method: 8270D
Preparation: 3550C

LCS Lab Sample ID:	LCS 490-389971/2-A	Analysis Batch:	490-390308	Instrument ID:	HP83
Client Matrix:	Solid	Prep Batch:	490-389971	Lab File ID:	112916-034.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	11/29/2016 1948	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1756			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-389971/4-A	Analysis Batch:	490-390308	Instrument ID:	HP83
Client Matrix:	Solid	Prep Batch:	490-389971	Lab File ID:	112916-036.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	11/29/2016 2027	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1756			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Di-n-butyl phthalate	70	84	46 - 127	18	49		
4,6-Dinitro-o-cresol	48	58	27 - 134	19	50		
2,4-Dinitrophenol	41	55	10 - 142	28	50		
2,4-Dinitrotoluene	73	86	43 - 120	16	50		
2,6-Dinitrotoluene	72	84	43 - 120	15	50		
Di-n-octyl phthalate	72	88	40 - 130	20	50		
1,2-Diphenylhydrazine (as Azobenzene)	100	117	10 - 150	16	50		
Fluoranthene	79	93	46 - 120	17	50		
Fluorene	72	82	42 - 120	13	50		
Hexachlorobenzene	55	63	44 - 120	15	50		
Hexachlorobutadiene	53	58	31 - 120	9	50		
Hexachlorocyclopentadiene	37	44	24 - 120	19	50		
Hexachloroethane	63	70	33 - 120	10	50		
Ideno(1,2,3-cd)pyrene	67	78	41 - 121	14	50		
Isophorone	79	90	33 - 120	13	50		
1-Methylnaphthalene	67	77	32 - 120	14	50		
2-Methylnaphthalene	69	79	28 - 120	14	50		
Naphthalene	63	71	32 - 120	12	50		
2-Nitroaniline	63	74	40 - 120	17	50		
3-Nitroaniline	67	81	42 - 120	18	49		
4-Nitroaniline	71	86	43 - 120	19	49		
Nitrobenzene	80	92	26 - 120	15	50		
2-Nitrophenol	54	62	29 - 120	14	50		
4-Nitrophenol	106	128	32 - 136	19	45		
N-Nitrosodimethylamine	57	62	10 - 150	9	50		
N-Nitrosodi-n-propylamine	80	98	35 - 120	20	50		
N-Nitrosodiphenylamine	80	90	52 - 140	12	50		
Pentachlorophenol	58	70	44 - 134	19	50		
Phenanthrene	72	84	45 - 120	16	50		
Phenol	70	84	30 - 120	19	50		
Pyrene	74	86	43 - 120	16	50		
Pyridine	62	70	20 - 120	11	50		
1,2,4-Trichlorobenzene	58	65	29 - 120	11	50		
2,4,5-Trichlorophenol	68	75	39 - 120	10	50		
2,4,6-Trichlorophenol	64	74	39 - 120	15	50		

Client: Roux Associates, Inc. Job Number: 490-116559-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	63	70	29 - 120
2-Fluorophenol (Surr)	58	64	10 - 120
Nitrobenzene-d5 (Surr)	84	92	27 - 120
Phenol-d5 (Surr)	73	84	10 - 120
Terphenyl-d14 (Surr)	69	78	13 - 120
2,4,6-Tribromophenol (Surr)	47	54	10 - 120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-389971

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-116560-11	Analysis Batch:	490-390597	Instrument ID:	HP83
Client Matrix:	Solid	Prep Batch:	490-389971	Lab File ID:	113016-015.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.27 g
Analysis Date:	11/30/2016 1312			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1756			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116560-11	Analysis Batch:	490-390597	Instrument ID:	HP83
Client Matrix:	Solid	Prep Batch:	490-389971	Lab File ID:	113016-016.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.84 g
Analysis Date:	11/30/2016 1331			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1756			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	82	87	19 - 120	3	50		
Acenaphthylene	64	65	25 - 120	0	50		
Aniline	42	42	10 - 200	2	50		
Anthracene	67	89	28 - 125	23	49		
Benzidine	14	15	5 - 200	9	50	J	J
Benzo(a)anthracene	67	70	23 - 120	2	50		
Benzo(a)pyrene	63	69	15 - 128	6	50		
Benzo(b)fluoranthene	67	74	12 - 133	7	50		
Benzo(g,h,i)perylene	66	74	22 - 120	8	50		
Benzoic acid	59	71	10 - 200	16	50		
Benzo(k)fluoranthene	72	71	28 - 120	4	45		
Benzyl alcohol	64	68	10 - 200	3	50		
Bis(2-chloroethoxy)methane	71	71	24 - 120	1	50		
Bis(2-chloroethyl)ether	62	59	22 - 120	7	50		
bis (2-chloroisopropyl) ether	53	50	20 - 120	7	50		
Bis(2-ethylhexyl)phthalate	65	70	26 - 120	6	50		
4-Bromophenyl phenyl ether	65	67	31 - 120	0	37		
Butyl benzyl phthalate	62	62	24 - 133	2	50		
Carbazole	67	68	25 - 123	1	46		
4-Chloroaniline	60	72	26 - 120	18	50		
4-Chloro-3-methylphenol	84	90	21 - 120	5	49		
2-Chloronaphthalene	61	60	24 - 120	3	50		
2-Chlorophenol	55	58	25 - 120	2	50		
4-Chlorophenyl phenyl ether	65	62	26 - 120	7	50		
Chrysene	64	72	20 - 120	7	49		
Dibenzo(a,h)anthracene	62	65	12 - 128	3	50		
Dibenzofuran	71	71	21 - 120	1	50		
1,2-Dichlorobenzene	56	58	10 - 120	2	50		
1,3-Dichlorobenzene	56	57	10 - 120	1	50		
1,4-Dichlorobenzene	56	59	10 - 120	3	50		
3,3'-Dichlorobenzidine	58	59	10 - 120	1	50		
2,4-Dichlorophenol	65	65	17 - 120	2	50		

Client: Roux Associates, Inc. Job Number: 490-116559-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-389971

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-116560-11	Analysis Batch:	490-390597	Instrument ID:	HP83
Client Matrix:	Solid	Prep Batch:	490-389971	Lab File ID:	113016-015.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.27 g
Analysis Date:	11/30/2016 1312			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1756			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116560-11	Analysis Batch:	490-390597	Instrument ID:	HP83
Client Matrix:	Solid	Prep Batch:	490-389971	Lab File ID:	113016-016.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.84 g
Analysis Date:	11/30/2016 1331			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1756			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Diethyl phthalate	60	59	29 - 122	3	45		
2,4-Dimethylphenol	73	71	17 - 120	3	50		
Dimethyl phthalate	62	54	30 - 120	16	46		
Di-n-butyl phthalate	65	69	29 - 126	4	49		
4,6-Dinitro-o-cresol	21	21	10 - 134	4	50		
2,4-Dinitrophenol	22	22	10 - 150	4	50		
2,4-Dinitrotoluene	73	77	24 - 121	4	50		
2,6-Dinitrotoluene	66	63	24 - 120	8	50		
Di-n-octyl phthalate	68	68	27 - 130	1	50		
1,2-Diphenylhydrazine (as Azobenzene)	68	63	10 - 200	9	50		
Fluoranthene	73	81	10 - 143	7	50		
Fluorene	75	81	20 - 120	4	50		
Hexachlorobenzene	72	76	25 - 120	4	50		
Hexachlorobutadiene	67	68	10 - 120	1	50		
Hexachlorocyclopentadiene	34	28	10 - 120	20	50		
Hexachloroethane	97	140	10 - 120	34	50		*
Ideno(1,2,3-cd)pyrene	62	68	22 - 121	7	50		
Isophorone	93	101	24 - 120	7	50		
1-Methylnaphthalene	114	189	10 - 120	26	50		E *
2-Methylnaphthalene	74	79	13 - 120	5	50		
Naphthalene	65	68	10 - 120	2	50		
2-Nitroaniline	52	54	31 - 120	2	50		
3-Nitroaniline	55	55	31 - 120	2	49		
4-Nitroaniline	59	64	28 - 120	6	49		
Nitrobenzene	82	83	19 - 120	0	50		
2-Nitrophenol	78	88	23 - 120	10	50		
4-Nitrophenol	65	62	16 - 139	6	45		
N-Nitrosodimethylamine	47	46	10 - 200	3	50		
N-Nitrosodi-n-propylamine	94	115	24 - 120	19	50		
N-Nitrosodiphenylamine	137	160	26 - 150	14	50		*
Pentachlorophenol	70	70	19 - 145	1	50		
Phenanthrene	92	131	21 - 122	19	50		*

Client: Roux Associates, Inc. Job Number: 490-116559-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-389971

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-116560-11	Analysis Batch:	490-390597	Instrument ID:	HP83
Client Matrix:	Solid	Prep Batch:	490-389971	Lab File ID:	113016-015.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.27 g
Analysis Date:	11/30/2016 1312			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1756			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116560-11	Analysis Batch:	490-390597	Instrument ID:	HP83
Client Matrix:	Solid	Prep Batch:	490-389971	Lab File ID:	113016-016.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.84 g
Analysis Date:	11/30/2016 1331			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1756			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Phenol	62	68	15 - 120	7	50		
Pyrene	75	90	20 - 123	11	50		
Pyridine	47	46	10 - 200	3	50		
1,2,4-Trichlorobenzene	67	68	14 - 120	0	50		
2,4,5-Trichlorophenol	85	76	27 - 120	14	50		
2,4,6-Trichlorophenol	69	67	24 - 122	4	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	62	62	29 - 120
2-Fluorophenol (Surr)	49	50	10 - 120
Nitrobenzene-d5 (Surr)	74	80	27 - 120
Phenol-d5 (Surr)	59	60	10 - 120
Terphenyl-d14 (Surr)	70	70	13 - 120
2,4,6-Tribromophenol (Surr)	70	78	10 - 120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Method Blank - Batch: 490-389972 **Method: 8270D**
Preparation: 3550C

Lab Sample ID:	MB 490-389972/1-A	Analysis Batch:	490-390541	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-389972	Lab File ID:	112916-05.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	11/29/2016 1826	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	0.0320	U	0.0320	0.0670
Acenaphthylene	0.0290	U	0.0290	0.0670
Aniline	0.253	U	0.253	0.670
Anthracene	0.0290	U	0.0290	0.0670
Benzidine	0.204	U	0.204	0.333
Benzo(a)anthracene	0.0300	U	0.0300	0.0670
Benzo(a)pyrene	0.0270	U	0.0270	0.0670
Benzo(b)fluoranthene	0.0280	U	0.0280	0.0670
Benzo(g,h,i)perylene	0.0330	U	0.0330	0.0670
Benzoic acid	0.0600	U	0.0600	0.333
Benzo(k)fluoranthene	0.0270	U	0.0270	0.0670
Benzyl alcohol	0.194	U	0.194	0.333
Bis(2-chloroethoxy)methane	0.200	U	0.200	0.333
Bis(2-chloroethyl)ether	0.213	U	0.213	0.333
bis (2-chloroisopropyl) ether	0.198	U	0.198	0.333
Bis(2-ethylhexyl)phthalate	0.207	U	0.207	0.333
4-Bromophenyl phenyl ether	0.205	U	0.205	0.333
Butyl benzyl phthalate	0.215	U	0.215	0.333
Carbazole	0.207	U	0.207	0.333
4-Chloroaniline	0.227	U	0.227	0.333
4-Chloro-3-methylphenol	0.168	U	0.168	0.333
2-Chloronaphthalene	0.209	U	0.209	0.333
2-Chlorophenol	0.191	U	0.191	0.333
4-Chlorophenyl phenyl ether	0.201	U	0.201	0.333
Chrysene	0.0370	U	0.0370	0.0670
Dibenzo(a,h)anthracene	0.0320	U	0.0320	0.0670
Dibenzofuran	0.210	U	0.210	0.333
1,2-Dichlorobenzene	0.190	U	0.190	0.333
1,3-Dichlorobenzene	0.190	U	0.190	0.333
1,4-Dichlorobenzene	0.196	U	0.196	0.333
3,3'-Dichlorobenzidine	0.204	U	0.204	0.670
2,4-Dichlorophenol	0.175	U	0.175	0.333
Diethyl phthalate	0.212	U	0.212	0.333
2,4-Dimethylphenol	0.335	U	0.335	0.670
Dimethyl phthalate	0.207	U	0.207	0.333
Di-n-butyl phthalate	0.211	U	0.211	0.333
4,6-Dinitro-o-cresol	0.229	U	0.229	0.333
2,4-Dinitrophenol	0.251	U	0.251	0.333
2,4-Dinitrotoluene	0.208	U	0.208	0.333
2,6-Dinitrotoluene	0.223	U	0.223	0.333
Di-n-octyl phthalate	0.178	U	0.178	0.333
1,2-Diphenylhydrazine (as Azobenzene)	0.234	U	0.234	0.333
Fluoranthene	0.0340	U	0.0340	0.0670
Fluorene	0.0290	U	0.0290	0.0670
Hexachlorobenzene	0.250	U	0.250	0.333

Client: Roux Associates, Inc. Job Number: 490-116559-1

Method Blank - Batch: 490-389972

Method: 8270D
Preparation: 3550C

Lab Sample ID:	MB 490-389972/1-A	Analysis Batch:	490-390541	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-389972	Lab File ID:	112916-05.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	11/29/2016 1826	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Hexachlorobutadiene	0.167	U	0.167	0.333
Hexachlorocyclopentadiene	0.150	U	0.150	0.333
Hexachloroethane	0.181	U	0.181	0.333
Ideno(1,2,3-cd)pyrene	0.0290	U	0.0290	0.0670
Isophorone	0.188	U	0.188	0.333
1-Methylnaphthalene	0.0280	U	0.0280	0.0670
2-Methylnaphthalene	0.0260	U	0.0260	0.0670
Naphthalene	0.0290	U	0.0290	0.0670
2-Nitroaniline	0.207	U	0.207	0.333
3-Nitroaniline	0.230	U	0.230	0.670
4-Nitroaniline	0.238	U	0.238	0.670
Nitrobenzene	0.201	U	0.201	0.333
2-Nitrophenol	0.243	U	0.243	0.333
4-Nitrophenol	0.382	U	0.382	0.670
N-Nitrosodimethylamine	0.0200	U	0.0200	0.333
N-Nitrosodi-n-propylamine	0.194	U	0.194	0.333
N-Nitrosodiphenylamine	0.0530	U	0.0530	0.333
Pentachlorophenol	0.266	U	0.266	0.670
Phenanthrene	0.0340	U	0.0340	0.0670
Phenol	0.203	U	0.203	0.333
Pyrene	0.0340	U	0.0340	0.0670
Pyridine	0.199	U	0.199	0.670
1,2,4-Trichlorobenzene	0.181	U	0.181	0.333
2,4,5-Trichlorophenol	0.218	U	0.218	0.333
2,4,6-Trichlorophenol	0.192	U	0.192	0.333

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	65	29 - 120
2-Fluorophenol (Surr)	51	10 - 120
Nitrobenzene-d5 (Surr)	66	27 - 120
Phenol-d5 (Surr)	58	10 - 120
Terphenyl-d14 (Surr)	73	13 - 120
2,4,6-Tribromophenol (Surr)	48	10 - 120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Control Sample - Batch: 490-389972

Method: 8270D
Preparation: 3550C

Lab Sample ID:	LCS 490-389972/2-A	Analysis Batch:	490-390541	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-389972	Lab File ID:	112916-06.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	11/29/2016 1844	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	1.67	0.9498	57	36 - 120	
Acenaphthylene	1.67	0.9274	56	38 - 120	
Aniline	1.67	0.8660	52	10 - 150	
Anthracene	1.67	1.054	63	46 - 124	
Benzidine	1.67	0.2101	13	10 - 150	J
Benzo(a)anthracene	1.67	1.100	66	45 - 120	
Benzo(a)pyrene	1.67	1.087	65	45 - 120	
Benzo(b)fluoranthene	1.67	1.119	67	42 - 120	
Benzo(g,h,i)perylene	1.67	1.156	69	38 - 120	
Benzoic acid	1.67	0.6200	37	10 - 150	
Benzo(k)fluoranthene	1.67	1.132	68	42 - 120	
Benzyl alcohol	1.67	0.8916	53	43 - 131	
Bis(2-chloroethoxy)methane	1.67	0.8734	52	32 - 120	
Bis(2-chloroethyl)ether	1.67	0.8429	51	31 - 120	
bis (2-chloroisopropyl) ether	1.67	0.8188	49	32 - 120	
Bis(2-ethylhexyl)phthalate	1.67	1.117	67	43 - 120	
4-Bromophenyl phenyl ether	1.67	0.9942	60	40 - 120	
Butyl benzyl phthalate	1.67	1.092	66	43 - 133	
Carbazole	1.67	1.083	65	44 - 120	
4-Chloroaniline	1.67	0.8205	49	35 - 120	
4-Chloro-3-methylphenol	1.67	0.8807	53	38 - 120	
2-Chloronaphthalene	1.67	0.8969	54	34 - 120	
2-Chlorophenol	1.67	0.8497	51	32 - 120	
4-Chlorophenyl phenyl ether	1.67	1.033	62	42 - 120	
Chrysene	1.67	1.118	67	43 - 120	
Dibenzo(a,h)anthracene	1.67	1.132	68	32 - 128	
Dibenzofuran	1.67	0.9539	57	41 - 120	
1,2-Dichlorobenzene	1.67	0.8558	51	33 - 120	
1,3-Dichlorobenzene	1.67	0.8477	51	32 - 120	
1,4-Dichlorobenzene	1.67	0.8307	50	32 - 120	
3,3'-Dichlorobenzidine	1.67	1.053	63	39 - 120	
2,4-Dichlorophenol	1.67	0.9120	55	32 - 120	
Diethyl phthalate	1.67	1.056	63	41 - 122	
2,4-Dimethylphenol	1.67	0.8475	51	32 - 120	
Dimethyl phthalate	1.67	1.017	61	55 - 120	
Di-n-butyl phthalate	1.67	1.111	67	46 - 127	
4,6-Dinitro-o-cresol	3.33	1.914	57	27 - 134	
2,4-Dinitrophenol	3.33	1.408	42	10 - 142	
2,4-Dinitrotoluene	1.67	1.100	66	43 - 120	
2,6-Dinitrotoluene	1.67	1.008	60	43 - 120	
Di-n-octyl phthalate	1.67	1.130	68	40 - 130	

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Control Sample - Batch: 490-389972

Method: 8270D
Preparation: 3550C

Lab Sample ID:	LCS 490-389972/2-A	Analysis Batch:	490-390541	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-389972	Lab File ID:	112916-06.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	11/29/2016 1844	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,2-Diphenylhydrazine (as Azobenzene)	1.67	0.9710	58	10 - 150	
Fluoranthene	1.67	1.123	67	46 - 120	
Fluorene	1.67	1.023	61	42 - 120	
Hexachlorobenzene	1.67	1.083	65	44 - 120	
Hexachlorobutadiene	1.67	0.8337	50	31 - 120	
Hexachlorocyclopentadiene	1.67	0.8531	51	24 - 120	
Hexachloroethane	1.67	0.8018	48	33 - 120	
Ideno(1,2,3-cd)pyrene	1.67	1.090	65	41 - 121	
Isophorone	1.67	0.8622	52	33 - 120	
1-Methylnaphthalene	1.67	0.8316	50	32 - 120	
2-Methylnaphthalene	1.67	0.8364	50	28 - 120	
Naphthalene	1.67	0.8042	48	32 - 120	
2-Nitroaniline	1.67	0.9360	56	40 - 120	
3-Nitroaniline	1.67	1.029	62	42 - 120	
4-Nitroaniline	1.67	1.102	66	43 - 120	
Nitrobenzene	1.67	0.8172	49	26 - 120	
2-Nitrophenol	1.67	0.8841	53	29 - 120	
4-Nitrophenol	3.33	1.869	56	32 - 136	
N-Nitrosodimethylamine	1.67	0.7541	45	10 - 150	
N-Nitrosodi-n-propylamine	1.67	0.8226	49	35 - 120	
N-Nitrosodiphenylamine	1.42	1.028	73	52 - 140	
Pentachlorophenol	3.33	1.974	59	44 - 134	
Phenanthrene	1.67	1.042	63	45 - 120	
Phenol	1.67	0.9177	55	30 - 120	
Pyrene	1.67	1.058	63	43 - 120	
Pyridine	1.67	0.9497	57	20 - 120	
1,2,4-Trichlorobenzene	1.67	0.8635	52	29 - 120	
2,4,5-Trichlorophenol	1.67	1.035	62	39 - 120	
2,4,6-Trichlorophenol	1.67	1.018	61	39 - 120	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	59	29 - 120
2-Fluorophenol (Surr)	60	10 - 120
Nitrobenzene-d5 (Surr)	59	27 - 120
Phenol-d5 (Surr)	59	10 - 120
Terphenyl-d14 (Surr)	73	13 - 120
2,4,6-Tribromophenol (Surr)	72	10 - 120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-389972

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-116559-1	Analysis Batch:	490-390541	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-389972	Lab File ID:	112916-08.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	30.54 g
Analysis Date:	11/29/2016 1920			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116559-1	Analysis Batch:	490-390541	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-389972	Lab File ID:	112916-09.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	30.29 g
Analysis Date:	11/29/2016 1938			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	58	51	19 - 120	11	50		
Acenaphthylene	55	46	25 - 120	17	50		
Aniline	0	0	10 - 200	NC	50	U *	U *
Anthracene	61	56	28 - 125	9	49		
Benzidine	0	0	5 - 200	NC	50	U *	U *
Benzo(a)anthracene	53	54	23 - 120	3	50		
Benzo(a)pyrene	54	53	15 - 128	0	50		
Benzo(b)fluoranthene	54	51	12 - 133	3	50		
Benzo(g,h,i)perylene	66	73	22 - 120	7	50		
Benzoic acid	21	26	10 - 200	7	50	J	J
Benzo(k)fluoranthene	62	53	28 - 120	14	45		
Benzyl alcohol	0	0	10 - 200	NC	50	U *	U *
Bis(2-chloroethoxy)methane	0	0	24 - 120	NC	50	U *	U *
Bis(2-chloroethyl)ether	0	0	22 - 120	NC	50	U *	U *
bis (2-chloroisopropyl) ether	0	0	20 - 120	NC	50	U *	U *
Bis(2-ethylhexyl)phthalate	0	0	26 - 120	NC	50	U *	U *
4-Bromophenyl phenyl ether	0	0	31 - 120	NC	37	U *	U *
Butyl benzyl phthalate	0	0	24 - 133	NC	50	U *	U *
Carbazole	0	0	25 - 123	NC	46	U *	U *
4-Chloroaniline	0	0	26 - 120	NC	50	U *	U *
4-Chloro-3-methylphenol	52	0	21 - 120	NC	49	J	U *
2-Chloronaphthalene	0	0	24 - 120	NC	50	U *	U *
2-Chlorophenol	0	0	25 - 120	NC	50	U *	U *
4-Chlorophenyl phenyl ether	0	0	26 - 120	NC	50	U *	U *
Chrysene	58	56	20 - 120	1	49		
Dibenzo(a,h)anthracene	66	62	12 - 128	6	50		
Dibenzofuran	0	0	21 - 120	NC	50	U *	U *
1,2-Dichlorobenzene	0	0	10 - 120	NC	50	U *	U *
1,3-Dichlorobenzene	0	0	10 - 120	NC	50	U *	U *
1,4-Dichlorobenzene	0	0	10 - 120	NC	50	U *	U *
3,3'-Dichlorobenzidine	0	0	10 - 120	NC	50	U *	U *
2,4-Dichlorophenol	0	0	17 - 120	NC	50	U *	U *

Client: Roux Associates, Inc. Job Number: 490-116559-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-389972

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-116559-1	Analysis Batch:	490-390541	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-389972	Lab File ID:	112916-08.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	30.54 g
Analysis Date:	11/29/2016 1920			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116559-1	Analysis Batch:	490-390541	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-389972	Lab File ID:	112916-09.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	30.29 g
Analysis Date:	11/29/2016 1938			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Diethyl phthalate	0	0	29 - 122	NC	45	U *	U *
2,4-Dimethylphenol	NC	NC	17 - 120	NC	50	U	U
Dimethyl phthalate	0	0	30 - 120	NC	46	U *	U *
Di-n-butyl phthalate	0	0	29 - 126	NC	49	U *	U *
4,6-Dinitro-o-cresol	0	0	10 - 134	NC	50	U *	U *
2,4-Dinitrophenol	0	0	10 - 150	NC	50	U *	U *
2,4-Dinitrotoluene	0	0	24 - 121	NC	50	U *	U *
2,6-Dinitrotoluene	0	0	24 - 120	NC	50	U *	U *
Di-n-octyl phthalate	58	0	27 - 130	NC	50	J	U *
1,2-Diphenylhydrazine (as Azobenzene)	0	0	10 - 200	NC	50	U *	U *
Fluoranthene	59	54	10 - 143	8	50		
Fluorene	59	51	20 - 120	13	50		
Hexachlorobenzene	0	0	25 - 120	NC	50	U *	U *
Hexachlorobutadiene	50	0	10 - 120	NC	50	J	U *
Hexachlorocyclopentadiene	0	0	10 - 120	NC	50	U *	U *
Hexachloroethane	0	0	10 - 120	NC	50	U *	U *
Ideno(1,2,3-cd)pyrene	56	50	22 - 121	8	50		
Isophorone	0	0	24 - 120	NC	50	U *	U *
1-Methylnaphthalene	48	44	10 - 120	6	50		
2-Methylnaphthalene	60	55	13 - 120	7	50		
Naphthalene	52	43	10 - 120	17	50		
2-Nitroaniline	0	0	31 - 120	NC	50	U *	U *
3-Nitroaniline	0	0	31 - 120	NC	49	U *	U *
4-Nitroaniline	0	0	28 - 120	NC	49	U *	U *
Nitrobenzene	0	0	19 - 120	NC	50	U *	U *
2-Nitrophenol	0	0	23 - 120	NC	50	U *	U *
4-Nitrophenol	0	0	16 - 139	NC	45	U *	U *
N-Nitrosodimethylamine	32	29	10 - 200	12	50	J	J
N-Nitrosodi-n-propylamine	0	0	24 - 120	NC	50	U *	U *
N-Nitrosodiphenylamine	65	59	26 - 150	8	50	J	J
Pentachlorophenol	58	54	19 - 145	7	50	J	J
Phenanthrene	54	66	21 - 122	12	50		

Client: Roux Associates, Inc. Job Number: 490-116559-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-389972

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-116559-1	Analysis Batch:	490-390541	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-389972	Lab File ID:	112916-08.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	30.54 g
Analysis Date:	11/29/2016 1920			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116559-1	Analysis Batch:	490-390541	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-389972	Lab File ID:	112916-09.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	30.29 g
Analysis Date:	11/29/2016 1938			Final Weight/Volume:	1.00 mL
Prep Date:	11/27/2016 1806			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Phenol	0	0	15 - 120	NC	50	U *	U *
Pyrene	50	77	20 - 123	18	50		
Pyridine	0	0	10 - 200	NC	50	U *	U *
1,2,4-Trichlorobenzene	0	0	14 - 120	NC	50	U *	U *
2,4,5-Trichlorophenol	0	0	27 - 120	NC	50	U *	U *
2,4,6-Trichlorophenol	0	0	24 - 122	NC	50	U *	U *

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	53	37	29 - 120
2-Fluorophenol (Surr)	44	31	10 - 120
Nitrobenzene-d5 (Surr)	54	46	27 - 120
Phenol-d5 (Surr)	48	33	10 - 120
Terphenyl-d14 (Surr)	59	43	13 - 120
2,4,6-Tribromophenol (Surr)	58	40	10 - 120

Client: Roux Associates, Inc. Job Number: 490-116559-1

Method Blank - Batch: 490-390721 **Method: 6010C**
Preparation: 3051A

Lab Sample ID:	MB 490-390721/1-A	Analysis Batch:	490-391031	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-390721	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.514 g
Analysis Date:	12/01/2016 0352	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	9.73	U	9.73	19.5
Antimony	0.973	U	0.973	9.73
Arsenic	1.17	U	1.17	1.95
Barium	0.973	U	0.973	1.95
Beryllium	0.195	U	0.195	0.973
Cadmium	0.0973	U	0.0973	0.973
Calcium	97.3	U	97.3	195
Cobalt	0.973	U	0.973	1.95
Copper	1.07	U	1.07	1.95
Iron	19.5	U	19.5	38.9
Lead	0.486	U	0.486	0.973
Magnesium	97.3	U	97.3	195
Nickel	0.584	U	0.584	1.95
Selenium	1.07	U	1.07	1.95
Thallium	0.584	U	0.584	1.95
Vanadium	1.95	U	1.95	9.73
Zinc	4.86	U	4.86	9.73

Method Blank - Batch: 490-390721 **Method: 6010C**
Preparation: 3051A

Lab Sample ID:	MB 490-390721/1-A	Analysis Batch:	490-391445	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-390721	Lab File ID:	TALS_12022016-4A.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.514 g
Analysis Date:	12/02/2016 1345	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chromium	0.875	U	0.875	0.973
Manganese	0.973	U	0.973	2.92
Potassium	97.3	U	97.3	195
Silver	0.389	U	0.389	0.973
Sodium	126	U	126	195

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Control Sample - Batch: 490-390721

Method: 6010C
Preparation: 3051A

Lab Sample ID:	LCS 490-390721/2-A	Analysis Batch:	490-391031	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-390721	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.506 g
Analysis Date:	12/01/2016 0357	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	791	803.8	102	80 - 120	
Antimony	39.5	41.34	105	80 - 120	
Arsenic	19.8	18.08	91	80 - 120	
Barium	791	806.1	102	80 - 120	
Beryllium	19.8	19.78	100	80 - 120	
Cadmium	19.8	19.41	98	80 - 120	
Calcium	1980	1950	99	80 - 120	
Cobalt	198	197.1	100	80 - 120	
Copper	98.8	95.67	97	80 - 120	
Iron	395	379.1	96	80 - 120	
Lead	19.8	19.55	99	80 - 120	
Magnesium	1980	1892	96	80 - 120	
Nickel	198	196.9	100	80 - 120	
Selenium	19.8	18.34	93	80 - 120	
Thallium	119	112.6	95	80 - 120	
Vanadium	198	191.9	97	80 - 120	
Zinc	198	190.0	96	80 - 120	

Lab Control Sample - Batch: 490-390721

Method: 6010C
Preparation: 3051A

Lab Sample ID:	LCS 490-390721/2-A	Analysis Batch:	490-391445	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-390721	Lab File ID:	TALS_12022016-4A.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.506 g
Analysis Date:	12/02/2016 1351	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chromium	79.1	85.14	108	80 - 120	
Manganese	198	199.8	101	80 - 120	
Potassium	1980	1944	98	80 - 120	
Silver	19.8	18.04	91	80 - 120	
Sodium	1980	1948	99	80 - 120	

Client: Roux Associates, Inc. Job Number: 490-116559-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-390721

Method: 6010C
Preparation: 3051A

MS Lab Sample ID:	490-116544-B-17-C MS	Analysis Batch:	490-391031	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-390721	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.514 g
Analysis Date:	12/01/2016 0433			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				
Leach Date:	N/A				

MSD Lab Sample ID:	490-116544-B-17-D MSD	Analysis Batch:	490-391031	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-390721	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.513 g
Analysis Date:	12/01/2016 0438			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aluminum	396	557	75 - 125	19	20	N	N
Antimony	90	88	75 - 125	2	20		
Arsenic	91	93	75 - 125	2	20		
Barium	87	93	75 - 125	5	20		
Beryllium	91	95	75 - 125	5	20		
Cadmium	87	90	75 - 125	3	20		
Calcium	29	292	75 - 125	12	20	4	4
Cobalt	86	89	75 - 125	4	20		
Copper	88	92	75 - 125	4	20		
Iron	288	737	75 - 125	24	20	4	4 N
Lead	88	93	75 - 125	4	20		
Magnesium	98	254	75 - 125	21	20	4	4 N
Nickel	85	89	75 - 125	4	20		
Selenium	88	90	75 - 125	2	20		
Thallium	43	44	75 - 125	2	20	N	N
Vanadium	91	96	75 - 125	6	20		
Zinc	75	80	75 - 125	5	20		

Client: Roux Associates, Inc. Job Number: 490-116559-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-390721

Method: 6010C
Preparation: 3051A

MS Lab Sample ID:	490-116544-B-17-C MS	Analysis Batch:	490-391445	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-390721	Lab File ID:	TALS_12022016-4A.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.514 g
Analysis Date:	12/02/2016 1416			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				
Leach Date:	N/A				

MSD Lab Sample ID:	490-116544-B-17-D MSD	Analysis Batch:	490-391445	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-390721	Lab File ID:	TALS_12022016-4A.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.513 g
Analysis Date:	12/02/2016 1431			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1120				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chromium	97	105	75 - 125	7	20		
Manganese	77	79	75 - 125	1	20		
Potassium	99	113	75 - 125	9	20		
Silver	85	89	75 - 125	5	20		
Sodium	47	80	75 - 125	7	20	4	4

Method Blank - Batch: 490-390844 **Method: 6010C**
Preparation: 3051A

Lab Sample ID:	MB 490-390844/1-A	Analysis Batch:	490-391031	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-390844	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.524 g
Analysis Date:	11/30/2016 2131	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1623				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	9.54	U	9.54	19.1
Antimony	0.954	U	0.954	9.54
Arsenic	1.15	U	1.15	1.91
Barium	0.954	U	0.954	1.91
Beryllium	0.191	U	0.191	0.954
Cadmium	0.0954	U	0.0954	0.954
Calcium	95.4	U	95.4	191
Cobalt	0.954	U	0.954	1.91
Copper	1.05	U	1.05	1.91
Iron	19.1	U	19.1	38.2
Lead	0.477	U	0.477	0.954
Magnesium	95.4	U	95.4	191
Nickel	0.573	U	0.573	1.91
Potassium	95.4	U	95.4	191
Selenium	1.05	U	1.05	1.91
Silver	0.382	U ^	0.382	0.954
Thallium	0.573	U	0.573	1.91
Vanadium	1.91	U	1.91	9.54
Zinc	4.77	U	4.77	9.54

Method Blank - Batch: 490-390844 **Method: 6010C**
Preparation: 3051A

Lab Sample ID:	MB 490-390844/1-A	Analysis Batch:	490-391154	Instrument ID:	ICP6
Client Matrix:	Solid	Prep Batch:	490-390844	Lab File ID:	TALS_120116-6A.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.524 g
Analysis Date:	12/01/2016 1344	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1623				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chromium	0.859	U	0.859	0.954
Manganese	0.954	U	0.954	2.86
Sodium	124	U	124	191

Client: Roux Associates, Inc. Job Number: 490-116559-1

Lab Control Sample - Batch: 490-390844 **Method: 6010C**
Preparation: 3051A

Lab Sample ID:	LCS 490-390844/2-A	Analysis Batch:	490-391031	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-390844	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.524 g
Analysis Date:	11/30/2016 2137	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1623				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	763	751.9	98	80 - 120	
Antimony	38.2	38.95	102	80 - 120	
Arsenic	19.1	17.00	89	80 - 120	
Barium	763	770.0	101	80 - 120	
Beryllium	19.1	18.95	99	80 - 120	
Cadmium	19.1	18.42	97	80 - 120	
Calcium	1910	1874	98	80 - 120	
Cobalt	191	187.4	98	80 - 120	
Copper	95.4	92.27	97	80 - 120	
Iron	382	363.4	95	80 - 120	
Lead	19.1	18.59	97	80 - 120	
Magnesium	1910	1813	95	80 - 120	
Nickel	191	185.8	97	80 - 120	
Potassium	1910	1998	105	80 - 120	
Selenium	19.1	17.54	92	80 - 120	
Silver	19.1	19.01	100	80 - 120	^
Thallium	115	105.5	92	80 - 120	
Vanadium	191	186.7	98	80 - 120	
Zinc	191	180.1	94	80 - 120	

Lab Control Sample - Batch: 490-390844 **Method: 6010C**
Preparation: 3051A

Lab Sample ID:	LCS 490-390844/2-A	Analysis Batch:	490-391154	Instrument ID:	ICP6
Client Matrix:	Solid	Prep Batch:	490-390844	Lab File ID:	TALS_120116-6A.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.524 g
Analysis Date:	12/01/2016 1349	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1623				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chromium	76.3	72.58	95	80 - 120	
Manganese	191	183.0	96	80 - 120	
Sodium	1910	1849	97	80 - 120	

Client: Roux Associates, Inc. Job Number: 490-116559-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-390844

Method: 6010C
Preparation: 3051A

MS Lab Sample ID:	490-116416-G-1-D MS	Analysis Batch:	490-391031	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-390844	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.524 g
Analysis Date:	11/30/2016 2213			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1623				
Leach Date:	N/A				

MSD Lab Sample ID:	490-116416-G-1-E MSD	Analysis Batch:	490-391031	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-390844	Lab File ID:	TALS_113016-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.519 g
Analysis Date:	11/30/2016 2218			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1623				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aluminum	359	358	75 - 125	0	20	4	4
Antimony	77	84	75 - 125	10	20		
Arsenic	70	73	75 - 125	3	20	N	N
Barium	76	76	75 - 125	2	20		
Beryllium	76	77	75 - 125	3	20		
Cadmium	72	73	75 - 125	3	20	N	N
Calcium	145	114	75 - 125	1	20	4	4
Cobalt	71	73	75 - 125	4	20	N	N
Copper	74	77	75 - 125	5	20	N	
Iron	157	184	75 - 125	4	20	4	4
Lead	58	65	75 - 125	9	20	N	N
Magnesium	69	76	75 - 125	4	20	N	
Nickel	70	71	75 - 125	3	20	N	N
Potassium	88	88	75 - 125	0	20		
Selenium	72	74	75 - 125	3	20	N	N
Silver	78	80	75 - 125	3	20	^	^
Thallium	65	66	75 - 125	3	20	N	N
Vanadium	77	77	75 - 125	1	20		
Zinc	70	71	75 - 125	2	20	N	N

Client: Roux Associates, Inc. Job Number: 490-116559-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-390844

Method: 6010C
Preparation: 3051A

MS Lab Sample ID:	490-116416-G-1-D MS	Analysis Batch:	490-391154	Instrument ID:	ICP6
Client Matrix:	Solid	Prep Batch:	490-390844	Lab File ID:	TALS_120116-6A.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.524 g
Analysis Date:	12/01/2016 1409			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1623				
Leach Date:	N/A				

MSD Lab Sample ID:	490-116416-G-1-E MSD	Analysis Batch:	490-391154	Instrument ID:	ICP6
Client Matrix:	Solid	Prep Batch:	490-390844	Lab File ID:	TALS_120116-6A.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.519 g
Analysis Date:	12/01/2016 1414			Final Weight/Volume:	100 mL
Prep Date:	11/30/2016 1623				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chromium	87	78	75 - 125	7	20		
Manganese	74	71	75 - 125	2	20	N	N
Sodium	-34	-35	75 - 125	0	20	N	N

Client: Roux Associates, Inc. Job Number: 490-116559-1

Method Blank - Batch: 490-391209

Method: 7471B
Preparation: 7471B

Lab Sample ID:	MB 490-391209/1-A	Analysis Batch:	490-391382	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-391209	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.625 g
Analysis Date:	12/02/2016 0959	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 0833				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0288	U	0.0288	0.0960

Lab Control Sample - Batch: 490-391209

Method: 7471B
Preparation: 7471B

Lab Sample ID:	LCS 490-391209/2-A	Analysis Batch:	490-391382	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-391209	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.618 g
Analysis Date:	12/02/2016 1002	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 0833				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.162	0.1453	90	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-391209

Method: 7471B
Preparation: 7471B

MS Lab Sample ID:	490-116536-D-1-D MS	Analysis Batch:	490-391382	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-391209	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.615 g
Analysis Date:	12/02/2016 1008			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 0833				
Leach Date:	N/A				

MSD Lab Sample ID:	490-116536-D-1-E MSD	Analysis Batch:	490-391382	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-391209	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.608 g
Analysis Date:	12/02/2016 1010			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 0833				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	101	105	80 - 120	5	20		

Client: Roux Associates, Inc. Job Number: 490-116559-1

Method Blank - Batch: 490-391309

Method: 7471B
Preparation: 7471B

Lab Sample ID:	MB 490-391309/1-A	Analysis Batch:	490-391382	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-391309	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.596 g
Analysis Date:	12/02/2016 1227	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 1026				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0302	U	0.0302	0.101

Lab Control Sample - Batch: 490-391309

Method: 7471B
Preparation: 7471B

Lab Sample ID:	LCS 490-391309/2-A	Analysis Batch:	490-391382	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-391309	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.605 g
Analysis Date:	12/02/2016 1229	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 1026				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.165	0.1611	97	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-391309

Method: 7471B
Preparation: 7471B

MS Lab Sample ID:	490-116560-1	Analysis Batch:	490-391382	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-391309	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.598 g
Analysis Date:	12/02/2016 1235			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 1026				
Leach Date:	N/A				

MSD Lab Sample ID:	490-116560-1	Analysis Batch:	490-391382	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-391309	Lab File ID:	12216-5aLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.599 g
Analysis Date:	12/02/2016 1243			Final Weight/Volume:	100 mL
Prep Date:	12/02/2016 1026				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	111	79	80 - 120	25	20		N

Client: Roux Associates, Inc. Job Number: 490-116559-1

Duplicate - Batch: 490-388813 **Method: Moisture**
Preparation: N/A

Lab Sample ID:	490-116498-A-1 DU	Analysis Batch:	490-388813	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/22/2016 1059	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	86.8	84.2	3	20	

Duplicate - Batch: 490-388813 **Method: Moisture**
Preparation: N/A

Lab Sample ID:	490-116560-11	Analysis Batch:	490-388813	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/22/2016 1059	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	89.3	88.9	0.4	20	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-116559 Chain of Custody

Cooler Received/Opened On 11-~~10~~24-16 @ ~~1242~~ 1530

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 6763 7769 6571 (last 4 digits, FedEx) Courier: _ FedEx ____

IR Gun ID 31470368 pH Strip Lot HC685547 Chlorine Strip Lot 0414165

2. Temperature of rep. sample or temp blank when opened: 4.3 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) EM

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (intial) EM

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) EM

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) EM

I certify that I attached a label with the unique LIMS number to each container (intial) EM

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

End of Form

Revised 12/15/15

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: G. van der Ven & AM	Lab PM: Huckaba, Jennifer	Carrier Tracking No(s):	COC No: 490-59312-19194.3
Client Contact: Matthew Casey	Phone: (315)877-5946	E-Mail: jennifer.huckaba@testamericainc.com		Page: ~~Page 3 of 4~~ 1 of
Company: Roux Associates, Inc.				Job #:

Address: 12 Gill St., Suite 4700	Due Date Requested:
City: Woburn	TAT Requested (days): Standard
State, Zip: MA, 01801	PO #: 0172.0210M009
Phone:	WO #:
Email: mcasey@rouxinc.com	Project #: 49005538
Project Name: Roux - Olean, NY	SSOW#:
Site: 350/351 Franklin St.	

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Standard 8260 List + TICS	8270D - Standard Semivolatile List	6010C - TAL Metals	7470B - Mercury	Moisture	8260C - Standard 8260 List	8270D - Standard Semivolatile List	6010C - TAL Metals	7470A - Mercury			Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X													
END-406	11/14/16	0930	G	S	N	N	✓	✓	✓	✓	✓							5	
TP-300-6-7	11/15/16	0930	G	S	N	N	✓	✓	✓	✓	✓							5	
TP-301-6-7	11/15/16	1030	G	S	N	N	✓	✓	✓	✓	✓							5	
END-408	11/15/16	0905	G	S	N	N	✓	✓	✓	✓	✓							5	
END-409	11/15/16	0930	G	S	N	N	✓	✓	✓	✓	✓							5	
TP-302-6-7	11/15/16	1335	G	S	N	N	✓	✓	✓	✓	✓							5	
TP-303-6-7	11/15/16	1430	G	S	N	N	✓	✓	✓	✓	✓							5	
TP-304-6-7	11/16/16	0900	G	S	N	N	✓	✓	✓	✓	✓							5	
TP-305-6-7	11/16/16	1030	G	S	N	N	✓	✓	✓	✓	✓							5	
TP-306-6-7	11/16/16	1000	G	S	N	N	✓	✓	✓	✓	✓							5	
TP-307-6-7	11/17/16	1030	G	S	N	N	✓	✓	✓	✓	✓							5	

Loc: 490
116559

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Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) CAT A

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Brian Mc2	11/18/16 1430	Roux	FEDEX		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11-21-16 630	Company TAN

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.3

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville, TN

COOLER RECEIPT FORM

490-116559 Chain of Custody

Cooler Received/Opened On 11-~~10~~-16 @ ~~1242~~ 1530

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 6763 7769 6821 (last 4 digits, FedEx) Courier: _FedEx____

IR Gun ID 31470368 pH Strip Lot HC682547 Chlorine Strip Lot 0414461

2. Temperature of rep. sample or temp blank when opened: 4.3 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) EM

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (intial) EM

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) EM

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) EM

I certify that I attached a label with the unique LIMS number to each container (intial) EM

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: G. van der Ven & AM	Lab PM: Huckaba, Jennifer	Carrier Tracking No(s):	COC No: 490-59312-19194.3
Client Contact: Matthew Casey	Phone: (315)877-5946	E-Mail: jennifer.huckaba@testamericainc.com		Page: ~~Page 3 of 4~~ 1 of
Company: Roux Associates, Inc.				Job #:
Address: 12 Gill St., Suite 4700	Due Date Requested:			
City: Woburn	TAT Requested (days): Standard			
State, Zip: MA, 01801				
Phone:	PO #: 0172.0210M009			
Email: mcasey@rouxinc.com	WO #:			
Project Name: Roux - Olean, NY	Project #: 49005538			
Site: 350/351 Franklin St.	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Standard 8260 List + TICS	8270D - Standard Semivolatile List	6010C - TAL Metals	7470B - Mercury	Moisture	8260C - Standard 8260 List	8270D - Standard Semivolatile List	6010C - TAL Metals	7470A - Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:														
END-406	11/14/16	0930	G	S	N	N	✓	✓	✓	✓	✓					5	
TP-300-6-7	11/15/16	0930	G	S	N	N	✓	✓	✓	✓	✓					5	
TP-301-6-7	11/15/16	1030	G	S	N	N	✓	✓	✓	✓	✓					5	
END-408	11/15/16	0905	G	S	N	N	✓	✓	✓	✓	✓					5	
END-409	11/16/16	0930	G	S	N	N	✓	✓	✓	✓	✓					5	
TP-302-6-7	11/15/16	1335	G	S	N	N	✓	✓	✓	✓	✓					5	
TP-303-6-7	11/15/16	1430	G	S	N	N	✓	✓	✓	✓	✓					5	
TP-304-6-7	11/16/16	0900	G	S	N	N	✓	✓	✓	✓	✓					5	
TP-305-6-7	11/16/16	1030	G	S	N	N	✓	✓	✓	✓	✓					5	
TP-306-6-7	11/16/16	1000	G	S	N	N	✓	✓	✓	✓	✓					5	
TP-307-6-7	11/17/16	1030	G	S	N	N	✓	✓	✓	✓	✓					5	

Loc: 490
116559

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Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) CATA

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

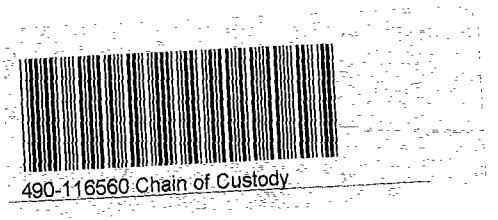
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Dan Nolan	11/18/16 1430	ROUX	FEDEX		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11-21-16 630	Company TAN

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 4.3

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville, TN

COOLER RECEIPT FORM



Cooler Received/Opened On 11-~~18~~ 24 16 @ ~~1242~~ 1530

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 6763 7769 6860 (last 4 digits, FedEx) Courier: _ FedEx ____

IR Gun ID 31470368 pH Strip Lot HC682547 Chlorine Strip Lot 0414168

2. Temperature of rep. sample or temp blank when opened: 4.2 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) EMA

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (intial) EMA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) EMA

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) EMA

I certify that I attached a label with the unique LIMS number to each container (intial) EMA

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: G.vanderVen & AM	Lab PM: Huckaba, Jennifer	Carrier Tracking No(s):	COC No: 490-59312-19194.2
Client Contact: Matthew Casey	Phone: (315) 877-5946	E-Mail: jennifer.huckaba@testamericainc.com		Page: Page 2 of 4
Company: Roux Associates, Inc.				Job #:
Address: 12 Gill St., Suite 4700	Due Date Requested:			
City: Woburn	TAT Requested (days): Standard			
State, Zip: MA, 01801				
Phone: (315) 877-5946	PO #: 0172.0210M009			
Email: mcasey@rouxinc.com	WO #:			
Project Name: Roux - Olean, NY	Project #: 49005538			
Site: 350/351 Franklin St	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Standard 8260 List + TICS	8270D - Standard Semivolatile List	6010C - TAL Metals	7470B - Mercury	Moisture							Total Number of containers	Special Instructions/Note:
			Preservation Code:																
TP-308-6-7	11/17/16	1100	G	S	N	N	✓	✓	✓	✓	✓							4	
END-416	11/15/16	1545	G	S	N	N	✓	✓	✓	✓	✓							5	
END-413	11/15/16	1500	G	S	N	N	✓	✓	✓	✓	✓							5	
END-410	11/15/16	1430	G	S	N	N	✓	✓	✓	✓	✓							5	
END-411	11/15/16	1435	G	S	N	N	✓	✓	✓	✓	✓							5	
END-417	11/15/16	1545	G	S	N	N	✓	✓	✓	✓	✓							5	
END-415	11/15/16	1645	G	S	N	N	✓	✓	✓	✓	✓							5	
END-414	11/15/16	1530	G	S	N	N	✓	✓	✓	✓	✓							5	
END-412	11/15/16	1500	G	S	N	N	✓	✓	✓	✓	✓							5	
END-422	11/17/16	0945	G	S	N	N	✓	✓	✓	✓	✓							4	
END-421	11/17/16	0815	G	S	N	N	✓	✓	✓	✓	✓							4	

Loc: 490
116560

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) CATA

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

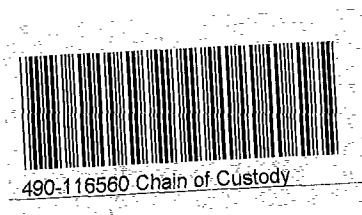
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	11/18/16 1430	ROUX	FEDEX		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			[signature]	12-21-16 830	TAN

Custody Seals Intact: △ Yes △ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		4.2

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville, TN

COOLER RECEIPT FORM



Cooler Received/Opened On 11-~~18~~-16 @ ~~1242~~ 1530 11-21-16 EMA

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 6763 7769 6860 (last 4 digits, FedEx) Courier: _ FedEx ____ _

IR Gun ID 31470368 pH Strip Lot HC682547 Chlorine Strip Lot 041416F

2. Temperature of rep. sample or temp blank when opened: 4.2 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) EMA

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (intial) EMA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) EMA

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) EMA

I certify that I attached a label with the unique LIMS number to each container (intial) EMA

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: G.vanderVen & AM	Lab PM: Huckaba, Jennifer	Carrier Tracking No(s):	COC No: 490-59312-19194.2
Client Contact: Matthew Casey	Phone: (315) 877-5946	E-Mail: jennifer.huckaba@testamericainc.com		Page: Page 2 of 4
Company: Roux Associates, Inc.				Job #:

Address: 12 Gill St., Suite 4700	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Woburn	TAT Requested (days): Standard		A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:
State, Zip: MA, 01801			
Phone: (315) 877-5946	PO #: 0172.0210M009		
Email: mcasey@rouxinc.com	WO #:		
Project Name: Roux - Olean, NY	Project #: 49005538		
Site: 350/351 Franklin St	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Standard 8260 List + TICS	8270D - Standard Semivolatile List	6010C - TAL Metals	74701B - Mercury	Moisture	8260C - Standard 8260 List	8270D - Standard Semivolatile List	6010C - TAL Metals	7470A - Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:														
TP-308-6-7	11/7/16	1100	G	S	N	N	✓	✓	✓	✓	✓					4	
END-416	11/15/16	1545	G	S	N	N	✓	✓	✓	✓	✓					5	
END-413	11/15/16	1500	G	S	N	N	✓	✓	✓	✓	✓					5	
END-410	11/15/16	1430	G	S	N	N	✓	✓	✓	✓	✓					5	
END-411	11/15/16	1435	G	S	N	N	✓	✓	✓	✓	✓					5	
END-417	11/15/16	1545	G	S	N	N	✓	✓	✓	✓	✓					5	
END-415	11/15/16	1545	G	S	N	N	✓	✓	✓	✓	✓					5	
END-414	11/15/16	1530	G	S	N	N	✓	✓	✓	✓	✓					5	
END-412	11/15/16	1500	G	S	N	N	✓	✓	✓	✓	✓					5	
END-422	11/17/16	0945	G	S	N	N	✓	✓	✓	✓	✓					4	
END-421	11/17/16	0815	G	S	N	N	✓	✓	✓	✓	✓					4	

Loc: 490
116560

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) CATA

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	11/18/16 1430	Roux	FEDEX		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12-21-16 830	Company JAN

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 4.2

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 490-116559-1

Login Number: 116559
List Number: 1
Creator: Abernathy, Eric

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 490-116559-1

Login Number: 116560
List Number: 1
Creator: Abernathy, Eric

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

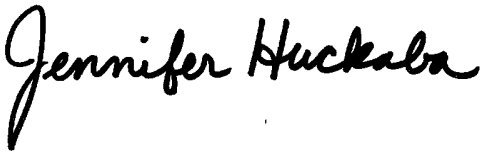
Job Number: 490-116812-1

Job Description: 350/351 Franklin Street Olean, NY

Contract Number: A2288121

For:
Roux Associates, Inc.
12 Gill St., Suite 4700
Woburn, MA 01801

Attention: Matthew Casey



Approved for release.
Jennifer Huckaba
Project Manager II
12/14/2016 11:44 AM

Jennifer Huckaba, Project Manager II
2960 Foster Creighton Drive, Nashville, TN, 37204
(615)301-5042
jennifer.huckaba@testamericainc.com
12/14/2016

The laboratory is only responsible for the certified testing and is not responsible for the sample integrity prior to laboratory receipt.

Table of Contents

Job Narrative
490-116812-1

Comments
No additional comments.

Receipt
The samples were received on 11/28/2016 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.8º C.

GC/MS VOA
Method(s) 8260C: Surrogate recovery for the following samples was outside control limits: END 440 (490-116812-2), END 439 (490-116812-3), END 435 (490-116812-4), TP-312-6-7 (490-116812-5), END-438 (490-116812-6), END-441 (490-116812-10), END-442 (490-116812-12) and END-437 (490-116812-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260C: Internal standard responses were outside of acceptance limits for the following samples: END 440 (490-116812-2), END-438 (490-116812-6), END-441 (490-116812-10) and END-442 (490-116812-12). The samples show evidence of matrix interference.

Method(s) 8260C: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: END 440 (490-116812-2), END-438 (490-116812-6), END-441 (490-116812-10) and END-442 (490-116812-12). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The method blank for analytical batch 490-390647 contained 1,2,3-Trichlorobenzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 490-390647 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8260C: The method blank for analytical batch 490-391219 contained Acetone, 1,2,3-Trichlorobenzene and 1,2,4-Trichlorobenzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260C: The laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for analytical batch 490-391219 recovered outside control limits for the following analytes: Dichlorodifluoromethane and Hexachlorobutadiene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 490-391219 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 490-391351 recovered above the upper control limit for 4-Nitrophenol, Azobenzene, Nitrobenzene, Isophorone, 4-Chloro-2-methylphenol and N-nitrosodi-n-propylamine. The samples associated with this CCV were non-detect for the affected analytes; therefore, the data has been reported.

Method(s) 8270D: The continuing calibration verification (CCV) for analytical batch 490-391351 was outside the method criteria for Benzidine. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable; therefore, the data is reported.

Method(s) 8270D: The laboratory control sample (LCS) for analytical batch 490-391351 recovered outside the lower control limits for 3,3'-Dichlorobenzidine and Benzidine but within marginal exceedance limits. The data has been qualified and reported.

Method(s) 8270D: The matrix spike and/or the matrix spike duplicate (MS/MSD) for analytical batch 490-391351 recovered outside control limits for the following analyte: Benzidine. Benzidine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

Method(s) 8270D: The following samples was diluted due to the nature of the sample matrix: END-437 (490-116812-13), (490-117018-D-2-A), (490-117018-D-2-B MS) and (490-117018-D-2-C MSD). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: (490-117018-D-2-B MS) and (490-117018-D-2-C MSD). As such, MS/MSD spike recoveries for analytical batch 490-391291 were diluted out and are not reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116812-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116812-1	**END 436**					
Acetone		0.0607		0.0438	mg/Kg	8260C
Benzene		0.00180		0.00175	mg/Kg	8260C
2-Butanone (MEK)		0.00576	J	0.0438	mg/Kg	8260C
Naphthalene		0.00186	J	0.00438	mg/Kg	8260C
Aluminum		6000		21.8	mg/Kg	6010C
Arsenic		7.24		2.18	mg/Kg	6010C
Barium		23.4		2.18	mg/Kg	6010C
Beryllium		0.305	J	1.09	mg/Kg	6010C
Cadmium		0.480	J	1.09	mg/Kg	6010C
Calcium		432		218	mg/Kg	6010C
Chromium		6.30		1.09	mg/Kg	6010C
Cobalt		5.43		2.18	mg/Kg	6010C
Copper		7.57		2.18	mg/Kg	6010C
Iron		10800		43.6	mg/Kg	6010C
Lead		9.14		1.09	mg/Kg	6010C
Magnesium		1510		218	mg/Kg	6010C
Manganese		105		3.27	mg/Kg	6010C
Nickel		10.1		2.18	mg/Kg	6010C
Potassium		411		218	mg/Kg	6010C
Thallium		1.40	J	2.18	mg/Kg	6010C
Vanadium		8.24	J	10.9	mg/Kg	6010C
Zinc		31.7		10.9	mg/Kg	6010C
Percent Solids		89.4		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116812-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116812-2	**END 440**					
Carbon disulfide		0.00490		0.00426	mg/Kg	8260C
Isopropylbenzene		0.0504		0.00171	mg/Kg	8260C
Naphthalene		0.449	J	0.567	mg/Kg	8260C
N-Propylbenzene		0.0997	J	0.227	mg/Kg	8260C
Acenaphthene		0.192		0.0764	mg/Kg	8270D
Anthracene		0.165		0.0764	mg/Kg	8270D
Benzo(a)anthracene		0.0543	J	0.0764	mg/Kg	8270D
Benzo(g,h,i)perylene		0.0494	J	0.0764	mg/Kg	8270D
Chrysene		0.169		0.0764	mg/Kg	8270D
Fluoranthene		0.0516	J	0.0764	mg/Kg	8270D
Fluorene		0.290		0.0764	mg/Kg	8270D
1-Methylnaphthalene		1.02		0.0764	mg/Kg	8270D
2-Methylnaphthalene		0.316		0.0764	mg/Kg	8270D
Naphthalene		0.157		0.0764	mg/Kg	8270D
Phenanthrene		0.552		0.0764	mg/Kg	8270D
Aluminum		7240		22.9	mg/Kg	6010C
Arsenic		7.49		2.29	mg/Kg	6010C
Barium		49.7		2.29	mg/Kg	6010C
Beryllium		0.435	J	1.15	mg/Kg	6010C
Cadmium		0.733	J	1.15	mg/Kg	6010C
Calcium		598		229	mg/Kg	6010C
Chromium		7.84		1.15	mg/Kg	6010C
Cobalt		5.32		2.29	mg/Kg	6010C
Copper		20.3		2.29	mg/Kg	6010C
Iron		13600		45.8	mg/Kg	6010C
Lead		16.5		1.15	mg/Kg	6010C
Magnesium		1710		229	mg/Kg	6010C
Manganese		861		3.44	mg/Kg	6010C
Nickel		15.8		2.29	mg/Kg	6010C
Potassium		481		229	mg/Kg	6010C
Thallium		1.08	J	2.29	mg/Kg	6010C
Vanadium		11.6		11.5	mg/Kg	6010C
Zinc		78.3		11.5	mg/Kg	6010C
Percent Solids		86.9		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116812-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116812-3	**END 439**					
Benzene		0.00125	J	0.00175	mg/Kg	8260C
Isopropylbenzene		0.0348		0.00175	mg/Kg	8260C
Naphthalene		0.0325		0.00436	mg/Kg	8260C
n-Butylbenzene		0.0254		0.00175	mg/Kg	8260C
N-Propylbenzene		0.0522		0.00175	mg/Kg	8260C
sec-Butylbenzene		0.0315		0.00175	mg/Kg	8260C
Toluene		0.0104		0.00175	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.00319		0.00175	mg/Kg	8260C
Anthracene		0.0671	J	0.0771	mg/Kg	8270D
Fluorene		0.0773		0.0771	mg/Kg	8270D
1-Methylnaphthalene		0.218		0.0771	mg/Kg	8270D
2-Methylnaphthalene		0.219		0.0771	mg/Kg	8270D
Phenanthrene		0.129		0.0771	mg/Kg	8270D
Aluminum		12000		23.3	mg/Kg	6010C
Arsenic		9.48		2.33	mg/Kg	6010C
Barium		41.6		2.33	mg/Kg	6010C
Beryllium		0.560	J	1.17	mg/Kg	6010C
Cadmium		0.980	J	1.17	mg/Kg	6010C
Calcium		430		233	mg/Kg	6010C
Chromium		13.0		1.17	mg/Kg	6010C
Cobalt		9.22		2.33	mg/Kg	6010C
Copper		13.0		2.33	mg/Kg	6010C
Iron		20600		46.7	mg/Kg	6010C
Lead		14.3		1.17	mg/Kg	6010C
Magnesium		2670		233	mg/Kg	6010C
Manganese		243		3.50	mg/Kg	6010C
Nickel		20.4		2.33	mg/Kg	6010C
Potassium		982		233	mg/Kg	6010C
Thallium		2.10	J	2.33	mg/Kg	6010C
Vanadium		17.9		11.7	mg/Kg	6010C
Zinc		57.6		11.7	mg/Kg	6010C
Percent Solids		85.4		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116812-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116812-4	**END 435**					
Benzene		0.00122	J	0.00161	mg/Kg	8260C
Isopropylbenzene		0.00116	J	0.00161	mg/Kg	8260C
Naphthalene		0.00540		0.00402	mg/Kg	8260C
n-Butylbenzene		0.0134		0.00161	mg/Kg	8260C
N-Propylbenzene		0.00162		0.00161	mg/Kg	8260C
sec-Butylbenzene		0.00797		0.00161	mg/Kg	8260C
tert-Butylbenzene		0.00605		0.00161	mg/Kg	8260C
1,1,2,2-Tetrachloroethane		0.0533		0.00161	mg/Kg	8260C
Toluene		0.00689		0.00161	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.00235		0.00161	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.00299		0.00161	mg/Kg	8260C
1-Methylnaphthalene		0.136		0.0740	mg/Kg	8270D
2-Methylnaphthalene		0.105		0.0740	mg/Kg	8270D
Phenanthrene		0.0448	J	0.0740	mg/Kg	8270D
Aluminum		10000		22.6	mg/Kg	6010C
Arsenic		8.17		2.26	mg/Kg	6010C
Barium		44.2		2.26	mg/Kg	6010C
Beryllium		0.543	J	1.13	mg/Kg	6010C
Cadmium		0.860	J	1.13	mg/Kg	6010C
Calcium		510		226	mg/Kg	6010C
Chromium		11.8		1.13	mg/Kg	6010C
Cobalt		8.67		2.26	mg/Kg	6010C
Copper		10.6		2.26	mg/Kg	6010C
Iron		18800		45.3	mg/Kg	6010C
Lead		12.1		1.13	mg/Kg	6010C
Magnesium		2390		226	mg/Kg	6010C
Manganese		322		3.39	mg/Kg	6010C
Nickel		15.6		2.26	mg/Kg	6010C
Potassium		512		226	mg/Kg	6010C
Thallium		5.20		2.26	mg/Kg	6010C
Vanadium		13.6		11.3	mg/Kg	6010C
Zinc		44.3		11.3	mg/Kg	6010C
Percent Solids		88.6		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116812-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116812-5	**TP-312-6-7**					
Benzene		0.00812		0.00210	mg/Kg	8260C
Carbon disulfide		0.00762		0.00525	mg/Kg	8260C
Isopropylbenzene		0.0228		0.00210	mg/Kg	8260C
m,p-Xylene		0.0516		0.00420	mg/Kg	8260C
n-Butylbenzene		0.0161		0.00210	mg/Kg	8260C
N-Propylbenzene		0.0350		0.00210	mg/Kg	8260C
p-Isopropyltoluene		0.00147	J	0.00210	mg/Kg	8260C
sec-Butylbenzene		0.0103		0.00210	mg/Kg	8260C
tert-Butylbenzene		0.00345		0.00210	mg/Kg	8260C
Toluene		0.0225		0.00210	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.0118		0.00210	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.00823		0.00210	mg/Kg	8260C
Xylenes (total)		0.0516		0.00630	mg/Kg	8260C
Acenaphthene		0.335		0.0822	mg/Kg	8270D
Anthracene		0.0410	J	0.0822	mg/Kg	8270D
Benzo(a)anthracene		0.0418	J	0.0822	mg/Kg	8270D
Benzo(g,h,i)perylene		0.0552	J	0.0822	mg/Kg	8270D
Chrysene		0.0550	J	0.0822	mg/Kg	8270D
Fluoranthene		0.0429	J	0.0822	mg/Kg	8270D
Fluorene		0.259		0.0822	mg/Kg	8270D
Phenanthrene		0.283		0.0822	mg/Kg	8270D
Pyrene		0.149		0.0822	mg/Kg	8270D
Aluminum		13200		23.9	mg/Kg	6010C
Arsenic		8.14		2.39	mg/Kg	6010C
Barium		61.2		2.39	mg/Kg	6010C
Beryllium		0.479	J	1.20	mg/Kg	6010C
Cadmium		0.455	J	1.20	mg/Kg	6010C
Calcium		1170		239	mg/Kg	6010C
Chromium		12.9		1.20	mg/Kg	6010C
Cobalt		7.08		2.39	mg/Kg	6010C
Copper		15.2		2.39	mg/Kg	6010C
Iron		15400		47.9	mg/Kg	6010C
Lead		26.2		1.20	mg/Kg	6010C
Magnesium		2250		239	mg/Kg	6010C
Manganese		163		3.59	mg/Kg	6010C
Nickel		20.5		2.39	mg/Kg	6010C
Potassium		639		239	mg/Kg	6010C
Selenium		1.89	J	2.39	mg/Kg	6010C
Vanadium		17.3		12.0	mg/Kg	6010C
Zinc		123		12.0	mg/Kg	6010C
Mercury		0.0750	J	0.121	mg/Kg	7471B
Percent Solids		81.3		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116812-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116812-6	**END-438**					
Benzene		0.000960	J	0.00167	mg/Kg	8260C
Carbon disulfide		0.00337	J	0.00417	mg/Kg	8260C
Isopropylbenzene		0.196		0.00167	mg/Kg	8260C
Naphthalene		0.553		0.264	mg/Kg	8260C
N-Propylbenzene		1.44		0.105	mg/Kg	8260C
tert-Butylbenzene		0.0914	J	0.105	mg/Kg	8260C
Toluene		0.0120		0.00167	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.120		0.105	mg/Kg	8260C
Benzo(a)anthracene		0.0461	J	0.0744	mg/Kg	8270D
Benzo(a)pyrene		0.0482	J	0.0744	mg/Kg	8270D
Benzo(b)fluoranthene		0.0570	J	0.0744	mg/Kg	8270D
Benzo(g,h,i)perylene		0.0554	J	0.0744	mg/Kg	8270D
Chrysene		0.0451	J	0.0744	mg/Kg	8270D
Fluoranthene		0.107		0.0744	mg/Kg	8270D
Phenanthrene		0.0881		0.0744	mg/Kg	8270D
Pyrene		0.0991		0.0744	mg/Kg	8270D
Aluminum		9260		23.0	mg/Kg	6010C
Arsenic		16.8		2.30	mg/Kg	6010C
Barium		41.5		2.30	mg/Kg	6010C
Beryllium		0.530	J	1.15	mg/Kg	6010C
Cadmium		0.369	J	1.15	mg/Kg	6010C
Calcium		540		230	mg/Kg	6010C
Chromium		10.1		1.15	mg/Kg	6010C
Cobalt		12.3		2.30	mg/Kg	6010C
Copper		13.3		2.30	mg/Kg	6010C
Iron		17700		46.1	mg/Kg	6010C
Lead		13.2		1.15	mg/Kg	6010C
Magnesium		2410		230	mg/Kg	6010C
Manganese		215		3.46	mg/Kg	6010C
Nickel		20.6		2.30	mg/Kg	6010C
Potassium		479		230	mg/Kg	6010C
Selenium		1.57	J	2.30	mg/Kg	6010C
Vanadium		12.9		11.5	mg/Kg	6010C
Zinc		53.3		11.5	mg/Kg	6010C
Percent Solids		87.7		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116812-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116812-7	**TP-311-6-7**					
Acetone		0.0745	J	0.0803	mg/Kg	8260C
Benzene		0.00374		0.00321	mg/Kg	8260C
Isopropylbenzene		0.00104	J	0.00321	mg/Kg	8260C
Naphthalene		0.00311	J	0.00803	mg/Kg	8260C
N-Propylbenzene		0.00173	J	0.00321	mg/Kg	8260C
Acenaphthene		0.0868	J	0.0891	mg/Kg	8270D
Anthracene		0.0700	J	0.0891	mg/Kg	8270D
Benzo(a)anthracene		0.0676	J	0.0891	mg/Kg	8270D
Benzo(a)pyrene		0.104		0.0891	mg/Kg	8270D
Benzo(b)fluoranthene		0.0822	J	0.0891	mg/Kg	8270D
Benzo(g,h,i)perylene		0.196		0.0891	mg/Kg	8270D
Benzoic acid		0.143	J	0.443	mg/Kg	8270D
Chrysene		0.0869	J	0.0891	mg/Kg	8270D
Dibenzo(a,h)anthracene		0.0568	J	0.0891	mg/Kg	8270D
Fluoranthene		0.258		0.0891	mg/Kg	8270D
Fluorene		0.0708	J	0.0891	mg/Kg	8270D
Ideno(1,2,3-cd)pyrene		0.0573	J	0.0891	mg/Kg	8270D
Phenanthrene		0.185		0.0891	mg/Kg	8270D
Pyrene		0.256		0.0891	mg/Kg	8270D
Aluminum		8660		27.4	mg/Kg	6010C
Antimony		2.63	J	13.7	mg/Kg	6010C
Arsenic		17.1		2.74	mg/Kg	6010C
Barium		79.5		2.74	mg/Kg	6010C
Beryllium		0.493	J	1.37	mg/Kg	6010C
Cadmium		0.877	J	1.37	mg/Kg	6010C
Calcium		3930		274	mg/Kg	6010C
Chromium		15.2		1.37	mg/Kg	6010C
Cobalt		5.97		2.74	mg/Kg	6010C
Copper		51.0		2.74	mg/Kg	6010C
Iron		13200		54.8	mg/Kg	6010C
Lead		124		1.37	mg/Kg	6010C
Magnesium		3130		274	mg/Kg	6010C
Manganese		136		4.11	mg/Kg	6010C
Nickel		14.1		2.74	mg/Kg	6010C
Potassium		517		274	mg/Kg	6010C
Vanadium		18.7		13.7	mg/Kg	6010C
Zinc		129		13.7	mg/Kg	6010C
Mercury		0.329		0.132	mg/Kg	7471B
Percent Solids		73.0		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116812-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116812-8	**TP-310-6-7**					
Acetone		0.0684		0.0434	mg/Kg	8260C
Benzene		0.000727	J	0.00174	mg/Kg	8260C
2-Butanone (MEK)		0.00659	J	0.0434	mg/Kg	8260C
Chloromethane		0.000787	J	0.00174	mg/Kg	8260C
Acenaphthene		0.0689	J	0.0765	mg/Kg	8270D
Anthracene		0.0848		0.0765	mg/Kg	8270D
Fluorene		0.132		0.0765	mg/Kg	8270D
1-Methylnaphthalene		0.943		0.0765	mg/Kg	8270D
2-Methylnaphthalene		1.13		0.0765	mg/Kg	8270D
Naphthalene		0.119		0.0765	mg/Kg	8270D
Phenanthrene		0.221		0.0765	mg/Kg	8270D
Aluminum		6570		22.6	mg/Kg	6010C
Arsenic		12.3		2.26	mg/Kg	6010C
Barium		53.5		2.26	mg/Kg	6010C
Beryllium		0.383	J	1.13	mg/Kg	6010C
Cadmium		0.316	J	1.13	mg/Kg	6010C
Calcium		2240		226	mg/Kg	6010C
Chromium		11.5		1.13	mg/Kg	6010C
Cobalt		5.89		2.26	mg/Kg	6010C
Copper		27.2		2.26	mg/Kg	6010C
Iron		17300		45.1	mg/Kg	6010C
Lead		17.8		1.13	mg/Kg	6010C
Magnesium		1840		226	mg/Kg	6010C
Manganese		412		3.38	mg/Kg	6010C
Nickel		17.2		2.26	mg/Kg	6010C
Potassium		420		226	mg/Kg	6010C
Selenium		1.78	J	2.26	mg/Kg	6010C
Vanadium		12.5		11.3	mg/Kg	6010C
Zinc		77.3		11.3	mg/Kg	6010C
Mercury		0.0334	J	0.111	mg/Kg	7471B
Percent Solids		86.4		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116812-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116812-9	**TP-309-6-7**					
Acetone		0.355		0.0545	mg/Kg	8260C
Benzene		0.00343		0.00218	mg/Kg	8260C
2-Butanone (MEK)		0.0447	J	0.0545	mg/Kg	8260C
m,p-Xylene		0.000732	J	0.00436	mg/Kg	8260C
Toluene		0.000992	J	0.00218	mg/Kg	8260C
Benzo(a)pyrene		0.0790		0.0756	mg/Kg	8270D
Benzo(b)fluoranthene		0.0407	J	0.0756	mg/Kg	8270D
Benzo(g,h,i)perylene		0.270		0.0756	mg/Kg	8270D
Benzoic acid		0.125	J	0.376	mg/Kg	8270D
Chrysene		0.0450	J	0.0756	mg/Kg	8270D
Dibenzo(a,h)anthracene		0.0727	J	0.0756	mg/Kg	8270D
Ideno(1,2,3-cd)pyrene		0.0669	J	0.0756	mg/Kg	8270D
Pyrene		0.0456	J	0.0756	mg/Kg	8270D
Aluminum		6070		21.6	mg/Kg	6010C
Arsenic		10.8		2.16	mg/Kg	6010C
Barium		53.0		2.16	mg/Kg	6010C
Beryllium		0.323	J	1.08	mg/Kg	6010C
Cadmium		0.496	J	1.08	mg/Kg	6010C
Calcium		3490		216	mg/Kg	6010C
Chromium		8.92		1.08	mg/Kg	6010C
Cobalt		4.25		2.16	mg/Kg	6010C
Copper		32.1		2.16	mg/Kg	6010C
Iron		12900		43.1	mg/Kg	6010C
Lead		64.4		1.08	mg/Kg	6010C
Magnesium		2140		216	mg/Kg	6010C
Manganese		518		3.23	mg/Kg	6010C
Nickel		13.0		2.16	mg/Kg	6010C
Potassium		329		216	mg/Kg	6010C
Selenium		1.42	J	2.16	mg/Kg	6010C
Vanadium		10.9		10.8	mg/Kg	6010C
Zinc		96.9		10.8	mg/Kg	6010C
Mercury		0.277		0.113	mg/Kg	7471B
Percent Solids		88.4		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116812-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116812-10	**END-441**					
Benzene		0.000607	J	0.00170	mg/Kg	8260C
Carbon disulfide		0.0101		0.00426	mg/Kg	8260C
Isopropylbenzene		0.141		0.00170	mg/Kg	8260C
Naphthalene		0.146	J	0.256	mg/Kg	8260C
n-Butylbenzene		0.211		0.103	mg/Kg	8260C
N-Propylbenzene		0.528		0.103	mg/Kg	8260C
Benzoic acid		0.196	J	0.369	mg/Kg	8270D
Chrysene		0.0475	J	0.0743	mg/Kg	8270D
Fluorene		0.166		0.0743	mg/Kg	8270D
1-Methylnaphthalene		0.380		0.0743	mg/Kg	8270D
2-Methylnaphthalene		0.345		0.0743	mg/Kg	8270D
N-Nitrosodiphenylamine		0.375		0.369	mg/Kg	8270D
Phenanthrene		0.236		0.0743	mg/Kg	8270D
Pyrene		0.0638	J	0.0743	mg/Kg	8270D
Aluminum		5320		21.9	mg/Kg	6010C
Arsenic		5.81		2.19	mg/Kg	6010C
Barium		31.1		2.19	mg/Kg	6010C
Beryllium		0.307	J	1.10	mg/Kg	6010C
Cadmium		0.438	J	1.10	mg/Kg	6010C
Calcium		666		219	mg/Kg	6010C
Chromium		7.14		1.10	mg/Kg	6010C
Cobalt		7.45		2.19	mg/Kg	6010C
Copper		14.6		2.19	mg/Kg	6010C
Iron		7980		43.8	mg/Kg	6010C
Lead		8.77		1.10	mg/Kg	6010C
Magnesium		1720		219	mg/Kg	6010C
Manganese		516		3.29	mg/Kg	6010C
Nickel		12.7		2.19	mg/Kg	6010C
Potassium		266		219	mg/Kg	6010C
Vanadium		6.66	J	11.0	mg/Kg	6010C
Zinc		62.2		11.0	mg/Kg	6010C
Percent Solids		89.5		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116812-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116812-12	**END-442**					
Carbon disulfide		0.00458		0.00423	mg/Kg	8260C
Isopropylbenzene		0.0611		0.00169	mg/Kg	8260C
N-Propylbenzene		0.326		0.106	mg/Kg	8260C
Toluene		0.00549		0.00169	mg/Kg	8260C
Acenaphthene		0.543		0.362	mg/Kg	8270D
Anthracene		0.750		0.362	mg/Kg	8270D
Benzoic acid		0.760	J	1.80	mg/Kg	8270D
Fluorene		1.22		0.362	mg/Kg	8270D
1-Methylnaphthalene		1.71		0.362	mg/Kg	8270D
Phenanthrene		2.25		0.362	mg/Kg	8270D
Aluminum		4520		21.5	mg/Kg	6010C
Arsenic		7.83		2.15	mg/Kg	6010C
Barium		26.1		2.15	mg/Kg	6010C
Beryllium		0.300	J	1.07	mg/Kg	6010C
Cadmium		0.472	J	1.07	mg/Kg	6010C
Calcium		692		215	mg/Kg	6010C
Chromium		6.39		1.07	mg/Kg	6010C
Cobalt		4.87		2.15	mg/Kg	6010C
Copper		25.4		2.15	mg/Kg	6010C
Iron		8810		42.9	mg/Kg	6010C
Lead		10.2		1.07	mg/Kg	6010C
Magnesium		1600		215	mg/Kg	6010C
Manganese		667		3.22	mg/Kg	6010C
Nickel		12.5		2.15	mg/Kg	6010C
Potassium		266		215	mg/Kg	6010C
Vanadium		9.16	J	10.7	mg/Kg	6010C
Zinc		70.4		10.7	mg/Kg	6010C
Percent Solids		90.5		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-116812-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-116812-13	**END-437**					
Benzene		0.00142	J	0.00181	mg/Kg	8260C
Isopropylbenzene		0.0696		0.00181	mg/Kg	8260C
Naphthalene		0.00292	J	0.00453	mg/Kg	8260C
n-Butylbenzene		0.0160		0.00181	mg/Kg	8260C
N-Propylbenzene		0.0918		0.00181	mg/Kg	8260C
sec-Butylbenzene		0.0307		0.00181	mg/Kg	8260C
tert-Butylbenzene		0.00390		0.00181	mg/Kg	8260C
Toluene		0.000838	J	0.00181	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.0220		0.00181	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.0354		0.00181	mg/Kg	8260C
Aluminum		7900		22.9	mg/Kg	6010C
Arsenic		15.4		2.29	mg/Kg	6010C
Barium		39.6		2.29	mg/Kg	6010C
Beryllium		0.459	J	1.15	mg/Kg	6010C
Cadmium		0.344	J	1.15	mg/Kg	6010C
Calcium		299		229	mg/Kg	6010C
Chromium		9.64		1.15	mg/Kg	6010C
Cobalt		8.60		2.29	mg/Kg	6010C
Copper		14.6		2.29	mg/Kg	6010C
Iron		14600		45.9	mg/Kg	6010C
Lead		15.9		1.15	mg/Kg	6010C
Magnesium		1980		229	mg/Kg	6010C
Manganese		226		3.44	mg/Kg	6010C
Nickel		16.8		2.29	mg/Kg	6010C
Potassium		347		229	mg/Kg	6010C
Selenium		1.72	J	2.29	mg/Kg	6010C
Vanadium		11.5		11.5	mg/Kg	6010C
Zinc		50.9		11.5	mg/Kg	6010C
Percent Solids		86.7		0.1	%	Moisture

METHOD SUMMARY

Client: Roux Associates, Inc. Job Number: 490-116812-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS	TAL NSH	SW846 8260C	
Closed System Purge & Trap/Field Methanol	TAL NSH		SW846 5035A
Volatile Organic Compounds by GC/MS	TAL NSH	SW846 8260C	
Closed System Purge and Trap	TAL NSH		SW846 5035A
Semivolatile Organic Compounds (GC/MS)	TAL NSH	SW846 8270D	
Ultrasonic Extraction	TAL NSH		SW846 3550C
Metals (ICP)	TAL NSH	SW846 6010C	
Preparation, Metals, Microwave Assisted	TAL NSH		SW846 3051A
Mercury (CVAA)	TAL NSH	SW846 7471B	
Preparation, Mercury	TAL NSH		SW846 7471B
Percent Moisture	TAL NSH	EPA Moisture	

Lab References:

TAL NSH = TestAmerica Nashville

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Roux Associates, Inc. Job Number: 490-116812-1

Method	Analyst	Analyst ID
SW846 8260C	Cockrill, Tiffany S	TSC
SW846 8270D	Chaiyasit, Thitima 1	T1C
SW846 8270D	Gillins, Lauren E	LEG
SW846 6010C	Fly, Robyn D	RDF
SW846 6010C	Keller, Kris	KKK
SW846 7471B	Smith, Lauren C	LCS
EPA Moisture	Ali, Blnd A	BAA

SAMPLE SUMMARY

Client: Roux Associates, Inc. Job Number: 490-116812-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
490-116812-1	END 436	Solid	11/23/2016 0800	11/28/2016 0830
490-116812-2	END 440	Solid	11/23/2016 0830	11/28/2016 0830
490-116812-3	END 439	Solid	11/23/2016 0830	11/28/2016 0830
490-116812-4	END 435	Solid	11/23/2016 0800	11/28/2016 0830
490-116812-5	TP-312-6-7	Solid	11/23/2016 1015	11/28/2016 0830
490-116812-6	END-438	Solid	11/23/2016 0815	11/28/2016 0830
490-116812-7	TP-311-6-7	Solid	11/23/2016 1000	11/28/2016 0830
490-116812-8	TP-310-6-7	Solid	11/23/2016 0930	11/28/2016 0830
490-116812-9	TP-309-6-7	Solid	11/23/2016 0900	11/28/2016 0830
490-116812-10	END-441	Solid	11/23/2016 0945	11/28/2016 0830
490-116812-11TB	TRIP BLANK	Solid	11/23/2016 0001	11/28/2016 0830
490-116812-12	END-442	Solid	11/23/2016 0945	11/28/2016 0830
490-116812-13	END-437	Solid	11/23/2016 0815	11/28/2016 0830

SAMPLE RESULTS

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END 436

Lab Sample ID: 490-116812-1 Date Sampled: 11/23/2016 0800
Client Matrix: Solid % Moisture: 10.6 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-15.D
Dilution:	1.0			Initial Weight/Volume:	6.382 g
Analysis Date:	11/30/2016 1633			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0607		0.00736	0.0438
Benzene		0.00180		0.000587	0.00175
Bromobenzene		0.000631	U	0.000631	0.00175
Bromochloromethane		0.000482	U	0.000482	0.00175
Bromodichloromethane		0.000482	U	0.000482	0.00175
Bromoform		0.000482	U	0.000482	0.00175
Bromomethane		0.00105	U	0.00105	0.00175
2-Butanone (MEK)		0.00576	J	0.00447	0.0438
Carbon disulfide		0.00316	U	0.00316	0.00438
Carbon tetrachloride		0.000587	U	0.000587	0.00175
Chlorobenzene		0.000587	U	0.000587	0.00175
Chloroethane		0.00167	U	0.00167	0.00438
Chloroform		0.000587	U	0.000587	0.00175
Chloromethane		0.000587	U	0.000587	0.00175
cis-1,2-Dichloroethene		0.000587	U	0.000587	0.00175
cis-1,3-Dichloropropene		0.000587	U	0.000587	0.00175
Dibromochloromethane		0.000298	U	0.000298	0.00175
1,2-Dibromo-3-chloropropane		0.000613	U	0.000613	0.00438
1,2-Dibromoethane		0.000876	U	0.000876	0.00175
1,2-Dichlorobenzene		0.000298	U	0.000298	0.00175
1,3-Dichlorobenzene		0.000587	U	0.000587	0.00175
1,4-Dichlorobenzene		0.000587	U	0.000587	0.00175
Dichlorodifluoromethane		0.000876	U	0.000876	0.00175
1,1-Dichloroethane		0.000587	U	0.000587	0.00175
1,2-Dichloroethane		0.000587	U	0.000587	0.00175
1,1-Dichloroethene		0.000500	U	0.000500	0.00175
1,2-Dichloropropane		0.000824	U	0.000824	0.00175
1,3-Dichloropropane		0.000824	U	0.000824	0.00175
2,2-Dichloropropane		0.000587	U	0.000587	0.00175
1,1-Dichloropropene		0.000447	U	0.000447	0.00175
Ethylbenzene		0.000587	U	0.000587	0.00175
Hexachlorobutadiene		0.000999	U	0.000999	0.00438
2-Hexanone		0.0146	U	0.0146	0.0438
Iodomethane		0.00587	U	0.00587	0.0175
Isopropylbenzene		0.000359	U	0.000359	0.00175
Methylene bromide		0.000491	U	0.000491	0.00175
Methylene Chloride		0.000754	U	0.000754	0.00876
4-Methyl-2-pentanone (MIBK)		0.00167	U	0.00167	0.0438
Methyl tert butyl ether		0.000841	U	0.000841	0.00175
m,p-Xylene		0.000491	U	0.000491	0.00351
Naphthalene		0.00186	J	0.00149	0.00438
n-Butylbenzene		0.000859	U	0.000859	0.00175
N-Propylbenzene		0.000587	U	0.000587	0.00175
o-Chlorotoluene		0.000780	U	0.000780	0.00175
o-Xylene		0.000587	U	0.000587	0.00175
p-Chlorotoluene		0.000736	U	0.000736	0.00175

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END 436

Lab Sample ID: 490-116812-1 Date Sampled: 11/23/2016 0800
Client Matrix: Solid % Moisture: 10.6 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-15.D
Dilution:	1.0			Initial Weight/Volume:	6.382 g
Analysis Date:	11/30/2016 1633			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000587	U	0.000587	0.00175
sec-Butylbenzene		0.000587	U	0.000587	0.00175
Styrene		0.000964	U	0.000964	0.00175
tert-Butylbenzene		0.000789	U	0.000789	0.00175
1,1,1,2-Tetrachloroethane		0.000587	U	0.000587	0.00175
1,1,2,2-Tetrachloroethane		0.000876	U	0.000876	0.00175
Tetrachloroethene		0.000640	U	0.000640	0.00175
Toluene		0.000649	U	0.000649	0.00175
trans-1,2-Dichloroethene		0.000587	U	0.000587	0.00175
trans-1,3-Dichloropropene		0.000587	U	0.000587	0.00175
1,2,3-Trichlorobenzene		0.000333	U	0.000333	0.00175
1,2,4-Trichlorobenzene		0.000587	U	0.000587	0.00175
1,1,1-Trichloroethane		0.000806	U	0.000806	0.00175
1,1,2-Trichloroethane		0.00123	U	0.00123	0.00438
Trichloroethene		0.000841	U	0.000841	0.00175
Trichlorofluoromethane		0.000876	U	0.000876	0.00175
1,2,3-Trichloropropane		0.000482	U	0.000482	0.00175
1,2,4-Trimethylbenzene		0.000876	U	0.000876	0.00175
1,3,5-Trimethylbenzene		0.000657	U	0.000657	0.00175
Vinyl acetate		0.00386	U	0.00386	0.0175
Vinyl chloride		0.000964	U	0.000964	0.00175
Xylenes (total)		0.00108	U	0.00108	0.00526

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END 436

Lab Sample ID: 490-116812-1 Date Sampled: 11/23/2016 0800
Client Matrix: Solid % Moisture: 10.6 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-15.D
Dilution:	1.0			Initial Weight/Volume:	6.382 g
Analysis Date:	11/30/2016 1633			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0700				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
16883-48-0	Cyclopentane, 1,2,4-trimethyl-, (1.alpha.,2.beta.,4.alpha.)-	4.69	0.102	J N
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.54	0.129	J N
2216-30-0	Heptane, 2,5-dimethyl-	5.90	0.0581	J N
583-57-3	Cyclohexane, 1,2-dimethyl-	5.98	0.0581	J N
3073-66-3	Cyclohexane, 1,1,3-trimethyl-	6.07	0.165	J N
2234-75-5	Cyclohexane, 1,2,4-trimethyl-	6.26	0.106	J N
19489-10-2	cis-1-Ethyl-3-methyl-cyclohexane	6.73	0.0757	J N
59643-68-4	3,5-Dimethyl-3-heptene	7.01	0.0943	J N
15869-89-3	Octane, 2,5-dimethyl-	7.06	0.0567	J N
5911-04-6	Nonane, 3-methyl-	7.18	0.0575	J N

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END 440

Lab Sample ID: 490-116812-2 Date Sampled: 11/23/2016 0830
Client Matrix: Solid % Moisture: 13.1 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-16.D
Dilution:	1.0			Initial Weight/Volume:	6.746 g
Analysis Date:	11/30/2016 1702			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0730				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.00716	U	0.00716	0.0426
Benzene		0.000571	U	0.000571	0.00171
Bromochloromethane		0.000469	U	0.000469	0.00171
Bromodichloromethane		0.000469	U	0.000469	0.00171
Bromoform		0.000469	U	0.000469	0.00171
Bromomethane		0.00102	U	0.00102	0.00171
2-Butanone (MEK)		0.00435	U	0.00435	0.0426
Carbon disulfide		0.00490		0.00307	0.00426
Carbon tetrachloride		0.000571	U	0.000571	0.00171
Chlorobenzene		0.000571	U	0.000571	0.00171
Chloroethane		0.00162	U	0.00162	0.00426
Chloroform		0.000571	U	0.000571	0.00171
Chloromethane		0.000571	U	0.000571	0.00171
cis-1,2-Dichloroethene		0.000571	U	0.000571	0.00171
cis-1,3-Dichloropropene		0.000571	U	0.000571	0.00171
Dibromochloromethane		0.000290	U	0.000290	0.00171
1,2-Dibromoethane		0.000853	U	0.000853	0.00171
Dichlorodifluoromethane		0.000853	U	0.000853	0.00171
1,1-Dichloroethane		0.000571	U	0.000571	0.00171
1,2-Dichloroethane		0.000571	U	0.000571	0.00171
1,1-Dichloroethene		0.000486	U	0.000486	0.00171
1,2-Dichloropropane		0.000802	U	0.000802	0.00171
1,3-Dichloropropane		0.000802	U	0.000802	0.00171
2,2-Dichloropropane		0.000571	U	0.000571	0.00171
1,1-Dichloropropene		0.000435	U	0.000435	0.00171
Ethylbenzene		0.000571	U	0.000571	0.00171
2-Hexanone		0.0142	U	0.0142	0.0426
Iodomethane		0.00571	U	0.00571	0.0171
Isopropylbenzene		0.0504		0.000350	0.00171
Methylene bromide		0.000478	U	0.000478	0.00171
Methylene Chloride		0.000733	U	0.000733	0.00853
4-Methyl-2-pentanone (MIBK)		0.00162	U	0.00162	0.0426
Methyl tert butyl ether		0.000819	U	0.000819	0.00171
m,p-Xylene		0.000478	U	0.000478	0.00341
o-Xylene		0.000571	U	0.000571	0.00171
Styrene		0.000938	U	0.000938	0.00171
1,1,1,2-Tetrachloroethane		0.000571	U	0.000571	0.00171
Tetrachloroethene		0.000623	U	0.000623	0.00171
Toluene		0.000631	U	0.000631	0.00171
trans-1,2-Dichloroethene		0.000571	U	0.000571	0.00171
trans-1,3-Dichloropropene		0.000571	U	0.000571	0.00171
1,1,1-Trichloroethane		0.000785	U	0.000785	0.00171
1,1,2-Trichloroethane		0.00119	U	0.00119	0.00426
Trichloroethene		0.000819	U	0.000819	0.00171
Trichlorofluoromethane		0.000853	U	0.000853	0.00171
Vinyl acetate		0.00375	U	0.00375	0.0171

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END 440

Lab Sample ID: 490-116812-2 Date Sampled: 11/23/2016 0830
Client Matrix: Solid % Moisture: 13.1 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-16.D
Dilution:	1.0			Initial Weight/Volume:	6.746 g
Analysis Date:	11/30/2016 1702			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0730				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl chloride		0.000938	U	0.000938	0.00171
Xylenes (total)		0.00105	U	0.00105	0.00512

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	2041	*	70 - 130
Dibromofluoromethane (Surr)	144	*	70 - 130
1,2-Dichloroethane-d4 (Surr)	209	*	70 - 130
Toluene-d8 (Surr)	383	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END 440

Lab Sample ID: 490-116812-2 Date Sampled: 11/23/2016 0830
Client Matrix: Solid % Moisture: 13.1 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-16.D
Dilution:	1.0			Initial Weight/Volume:	6.746 g
Analysis Date:	11/30/2016 1702			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0730				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
16747-25-4	Hexane, 2,2,3-trimethyl-	2.72	0.434	J N
96-37-7	Cyclopentane, methyl-	3.28	0.806	J N
110-82-7	Cyclohexane	3.72	4.02	E
2453-00-1	Cyclopentane, 1,3-dimethyl-	3.99	1.23	J N
19037-72-0	Cyclopentene, 4,4-dimethyl-	4.22	0.324	J N
108-87-2	Methylcyclohexane	4.52	3.95	E
4126-78-7	Cycloheptane, methyl-	5.46	0.423	J N
624-29-3	Cyclohexane, 1,4-dimethyl-, cis-	5.58	0.405	J N
7094-26-0	Cyclohexane, 1,1,2-trimethyl-	6.31	0.445	J N
19489-10-2	cis-1-Ethyl-3-methyl-cyclohexane	6.76	0.975	J N

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END 440

Lab Sample ID: 490-116812-2 Date Sampled: 11/23/2016 0830
Client Matrix: Solid % Moisture: 13.1 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-391219	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390327	Lab File ID:	120216-20.D
Dilution:	1.0			Initial Weight/Volume:	2.718 g
Analysis Date:	12/02/2016 1810			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0730				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0816	U	0.0816	0.227
1,2-Dibromo-3-chloropropane		0.0794	U	0.0794	0.567
1,2-Dichlorobenzene		0.0385	U	0.0385	0.227
1,3-Dichlorobenzene		0.0771	U	0.0771	0.227
1,4-Dichlorobenzene		0.107	U	0.107	0.227
Hexachlorobutadiene		0.125	U *	0.125	0.567
Naphthalene		0.449	J	0.193	0.567
n-Butylbenzene		0.113	U	0.113	0.227
N-Propylbenzene		0.0997	J	0.0771	0.227
o-Chlorotoluene		0.104	U	0.104	0.227
p-Chlorotoluene		0.0952	U	0.0952	0.227
p-Isopropyltoluene		0.0771	U	0.0771	0.227
sec-Butylbenzene		0.0771	U	0.0771	0.227
tert-Butylbenzene		0.113	U	0.113	0.227
1,1,2,2-Tetrachloroethane		0.113	U	0.113	0.227
1,2,3-Trichlorobenzene		0.0431	U	0.0431	0.227
1,2,4-Trichlorobenzene		0.0771	U	0.0771	0.227
1,2,3-Trichloropropane		0.0635	U	0.0635	0.227
1,2,4-Trimethylbenzene		0.113	U	0.113	0.227
1,3,5-Trimethylbenzene		0.0862	U	0.0862	0.227

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	90		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
Toluene-d8 (Surr)	114		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END 439

Lab Sample ID: 490-116812-3 Date Sampled: 11/23/2016 0830
Client Matrix: Solid % Moisture: 14.6 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-17.D
Dilution:	1.0			Initial Weight/Volume:	6.711 g
Analysis Date:	11/30/2016 1732			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0730				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.00733	U	0.00733	0.0436
Benzene		0.00125	J	0.000585	0.00175
Bromobenzene		0.000629	U	0.000629	0.00175
Bromochloromethane		0.000480	U	0.000480	0.00175
Bromodichloromethane		0.000480	U	0.000480	0.00175
Bromoform		0.000480	U	0.000480	0.00175
Bromomethane		0.00105	U	0.00105	0.00175
2-Butanone (MEK)		0.00445	U	0.00445	0.0436
Carbon disulfide		0.00314	U	0.00314	0.00436
Carbon tetrachloride		0.000585	U	0.000585	0.00175
Chlorobenzene		0.000585	U	0.000585	0.00175
Chloroethane		0.00166	U	0.00166	0.00436
Chloroform		0.000585	U	0.000585	0.00175
Chloromethane		0.000585	U	0.000585	0.00175
cis-1,2-Dichloroethene		0.000585	U	0.000585	0.00175
cis-1,3-Dichloropropene		0.000585	U	0.000585	0.00175
Dibromochloromethane		0.000297	U	0.000297	0.00175
1,2-Dibromo-3-chloropropane		0.000611	U	0.000611	0.00436
1,2-Dibromoethane		0.000873	U	0.000873	0.00175
1,2-Dichlorobenzene		0.000297	U	0.000297	0.00175
1,3-Dichlorobenzene		0.000585	U	0.000585	0.00175
1,4-Dichlorobenzene		0.000585	U	0.000585	0.00175
Dichlorodifluoromethane		0.000873	U	0.000873	0.00175
1,1-Dichloroethane		0.000585	U	0.000585	0.00175
1,2-Dichloroethane		0.000585	U	0.000585	0.00175
1,1-Dichloroethene		0.000498	U	0.000498	0.00175
1,2-Dichloropropane		0.000821	U	0.000821	0.00175
1,3-Dichloropropane		0.000821	U	0.000821	0.00175
2,2-Dichloropropane		0.000585	U	0.000585	0.00175
1,1-Dichloropropene		0.000445	U	0.000445	0.00175
Ethylbenzene		0.000585	U	0.000585	0.00175
Hexachlorobutadiene		0.000995	U	0.000995	0.00436
2-Hexanone		0.0146	U	0.0146	0.0436
Iodomethane		0.00585	U	0.00585	0.0175
Isopropylbenzene		0.0348		0.000358	0.00175
Methylene bromide		0.000489	U	0.000489	0.00175
Methylene Chloride		0.000751	U	0.000751	0.00873
4-Methyl-2-pentanone (MIBK)		0.00166	U	0.00166	0.0436
Methyl tert butyl ether		0.000838	U	0.000838	0.00175
m,p-Xylene		0.000489	U	0.000489	0.00349
Naphthalene		0.0325		0.00148	0.00436
n-Butylbenzene		0.0254		0.000855	0.00175
N-Propylbenzene		0.0522		0.000585	0.00175
o-Chlorotoluene		0.000777	U	0.000777	0.00175
o-Xylene		0.000585	U	0.000585	0.00175
p-Chlorotoluene		0.000733	U	0.000733	0.00175

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END 439

Lab Sample ID: 490-116812-3 Date Sampled: 11/23/2016 0830
Client Matrix: Solid % Moisture: 14.6 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-17.D
Dilution:	1.0			Initial Weight/Volume:	6.711 g
Analysis Date:	11/30/2016 1732			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0730				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000585	U	0.000585	0.00175
sec-Butylbenzene		0.0315		0.000585	0.00175
Styrene		0.000960	U	0.000960	0.00175
tert-Butylbenzene		0.000786	U	0.000786	0.00175
1,1,1,2-Tetrachloroethane		0.000585	U	0.000585	0.00175
1,1,2,2-Tetrachloroethane		0.000873	U	0.000873	0.00175
Tetrachloroethene		0.000637	U	0.000637	0.00175
Toluene		0.0104		0.000646	0.00175
trans-1,2-Dichloroethene		0.000585	U	0.000585	0.00175
trans-1,3-Dichloropropene		0.000585	U	0.000585	0.00175
1,2,3-Trichlorobenzene		0.000332	U	0.000332	0.00175
1,2,4-Trichlorobenzene		0.000585	U	0.000585	0.00175
1,1,1-Trichloroethane		0.000803	U	0.000803	0.00175
1,1,2-Trichloroethane		0.00122	U	0.00122	0.00436
Trichloroethene		0.000838	U	0.000838	0.00175
Trichlorofluoromethane		0.000873	U	0.000873	0.00175
1,2,3-Trichloropropane		0.000480	U	0.000480	0.00175
1,2,4-Trimethylbenzene		0.000873	U	0.000873	0.00175
1,3,5-Trimethylbenzene		0.00319		0.000655	0.00175
Vinyl acetate		0.00384	U	0.00384	0.0175
Vinyl chloride		0.000960	U	0.000960	0.00175
Xylenes (total)		0.00107	U	0.00107	0.00524

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	175	*	70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
1,2-Dichloroethane-d4 (Surr)	111		70 - 130
Toluene-d8 (Surr)	279	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END 439

Lab Sample ID: 490-116812-3 Date Sampled: 11/23/2016 0830
Client Matrix: Solid % Moisture: 14.6 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-17.D
Dilution:	1.0			Initial Weight/Volume:	6.711 g
Analysis Date:	11/30/2016 1732			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0730				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
110-82-7	Cyclohexane	3.72	0.906	E
108-87-2	Methylcyclohexane	4.53	1.56	E
590-66-9	Cyclohexane, 1,1-dimethyl-	5.40	0.779	J N
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.55	0.848	J N
2207-03-6	Cyclohexane, 1,3-dimethyl-, trans-	5.64	0.811	J N
2216-30-0	Heptane, 2,5-dimethyl-	5.92	0.474	J N
2234-75-5	Cyclohexane, 1,2,4-trimethyl-	6.28	0.773	J N
2051-30-1	Octane, 2,6-dimethyl-	7.20	0.480	J N
696-29-7	Cyclohexane, (1-methylethyl)-	7.31	0.887	J N
14676-29-0	Heptane, 3-ethyl-2-methyl-	7.47	0.505	J N

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END 435

Lab Sample ID: 490-116812-4 Date Sampled: 11/23/2016 0800
Client Matrix: Solid % Moisture: 11.4 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-18.D
Dilution:	1.0			Initial Weight/Volume:	7.024 g
Analysis Date:	11/30/2016 1801			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.00675	U	0.00675	0.0402
Benzene		0.00122	J	0.000539	0.00161
Bromobenzene		0.000579	U	0.000579	0.00161
Bromochloromethane		0.000442	U	0.000442	0.00161
Bromodichloromethane		0.000442	U	0.000442	0.00161
Bromoform		0.000442	U	0.000442	0.00161
Bromomethane		0.000965	U	0.000965	0.00161
2-Butanone (MEK)		0.00410	U	0.00410	0.0402
Carbon disulfide		0.00289	U	0.00289	0.00402
Carbon tetrachloride		0.000539	U	0.000539	0.00161
Chlorobenzene		0.000539	U	0.000539	0.00161
Chloroethane		0.00153	U	0.00153	0.00402
Chloroform		0.000539	U	0.000539	0.00161
Chloromethane		0.000539	U	0.000539	0.00161
cis-1,2-Dichloroethene		0.000539	U	0.000539	0.00161
cis-1,3-Dichloropropene		0.000539	U	0.000539	0.00161
Dibromochloromethane		0.000273	U	0.000273	0.00161
1,2-Dibromo-3-chloropropane		0.000563	U	0.000563	0.00402
1,2-Dibromoethane		0.000804	U	0.000804	0.00161
1,2-Dichlorobenzene		0.000273	U	0.000273	0.00161
1,3-Dichlorobenzene		0.000539	U	0.000539	0.00161
1,4-Dichlorobenzene		0.000539	U	0.000539	0.00161
Dichlorodifluoromethane		0.000804	U	0.000804	0.00161
1,1-Dichloroethane		0.000539	U	0.000539	0.00161
1,2-Dichloroethane		0.000539	U	0.000539	0.00161
1,1-Dichloroethene		0.000458	U	0.000458	0.00161
1,2-Dichloropropane		0.000756	U	0.000756	0.00161
1,3-Dichloropropane		0.000756	U	0.000756	0.00161
2,2-Dichloropropane		0.000539	U	0.000539	0.00161
1,1-Dichloropropene		0.000410	U	0.000410	0.00161
Ethylbenzene		0.000539	U	0.000539	0.00161
Hexachlorobutadiene		0.000916	U	0.000916	0.00402
2-Hexanone		0.0134	U	0.0134	0.0402
Iodomethane		0.00539	U	0.00539	0.0161
Isopropylbenzene		0.00116	J	0.000330	0.00161
Methylene bromide		0.000450	U	0.000450	0.00161
Methylene Chloride		0.000691	U	0.000691	0.00804
4-Methyl-2-pentanone (MIBK)		0.00153	U	0.00153	0.0402
Methyl tert butyl ether		0.000772	U	0.000772	0.00161
m,p-Xylene		0.000450	U	0.000450	0.00322
Naphthalene		0.00540		0.00137	0.00402
n-Butylbenzene		0.0134		0.000788	0.00161
N-Propylbenzene		0.00162		0.000539	0.00161
o-Chlorotoluene		0.000715	U	0.000715	0.00161
o-Xylene		0.000539	U	0.000539	0.00161
p-Chlorotoluene		0.000675	U	0.000675	0.00161

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END 435

Lab Sample ID: 490-116812-4 Date Sampled: 11/23/2016 0800
Client Matrix: Solid % Moisture: 11.4 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-18.D
Dilution:	1.0			Initial Weight/Volume:	7.024 g
Analysis Date:	11/30/2016 1801			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000539	U	0.000539	0.00161
sec-Butylbenzene		0.00797		0.000539	0.00161
Styrene		0.000884	U	0.000884	0.00161
tert-Butylbenzene		0.00605		0.000723	0.00161
1,1,1,2-Tetrachloroethane		0.000539	U	0.000539	0.00161
1,1,2,2-Tetrachloroethane		0.0533		0.000804	0.00161
Tetrachloroethene		0.000587	U	0.000587	0.00161
Toluene		0.00689		0.000595	0.00161
trans-1,2-Dichloroethene		0.000539	U	0.000539	0.00161
trans-1,3-Dichloropropene		0.000539	U	0.000539	0.00161
1,2,3-Trichlorobenzene		0.000305	U	0.000305	0.00161
1,2,4-Trichlorobenzene		0.000539	U	0.000539	0.00161
1,1,1-Trichloroethane		0.000740	U	0.000740	0.00161
1,1,2-Trichloroethane		0.00113	U	0.00113	0.00402
Trichloroethene		0.000772	U	0.000772	0.00161
Trichlorofluoromethane		0.000804	U	0.000804	0.00161
1,2,3-Trichloropropane		0.000442	U	0.000442	0.00161
1,2,4-Trimethylbenzene		0.00235		0.000804	0.00161
1,3,5-Trimethylbenzene		0.00299		0.000603	0.00161
Vinyl acetate		0.00354	U	0.00354	0.0161
Vinyl chloride		0.000884	U	0.000884	0.00161
Xylenes (total)		0.000989	U	0.000989	0.00482

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	205	*	70 - 130
Dibromofluoromethane (Surr)	92		70 - 130
1,2-Dichloroethane-d4 (Surr)	111		70 - 130
Toluene-d8 (Surr)	253	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END 435

Lab Sample ID: 490-116812-4 Date Sampled: 11/23/2016 0800
Client Matrix: Solid % Moisture: 11.4 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-18.D
Dilution:	1.0			Initial Weight/Volume:	7.024 g
Analysis Date:	11/30/2016 1801			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0700				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
110-82-7	Cyclohexane	3.72	0.768	E
4516-69-2	Cyclopentane, 1,1,3-trimethyl-	4.49	1.52	J N
1000144-17-3	6-Methyl-cyclohex-2-en-1-ol	4.70	0.668	J N
4126-78-7	Cycloheptane, methyl-	5.40	0.995	J N
2207-01-4	Cyclohexane, 1,2-dimethyl-, cis-	5.56	1.18	J N
589-90-2	Cyclohexane, 1,4-dimethyl-	5.64	0.771	J N
3073-66-3	Cyclohexane, 1,1,3-trimethyl-	6.09	1.07	J N
2234-75-5	Cyclohexane, 1,2,4-trimethyl-	6.28	0.817	J N
3728-56-1	1-Ethyl-4-methylcyclohexane	7.02	0.667	J N
13395-76-1	Cyclohexanone, 2,3-dimethyl-	7.31	0.809	J N

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: TP-312-6-7

Lab Sample ID: 490-116812-5 Date Sampled: 11/23/2016 1015
Client Matrix: Solid % Moisture: 18.7 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C Analysis Batch: 490-390647 Instrument ID: HP69
Prep Method: 5035A Prep Batch: 490-390330 Lab File ID: 113016-19.D
Dilution: 1.0 Initial Weight/Volume: 5.86 g
Analysis Date: 11/30/2016 1831 Final Weight/Volume: 5.0 mL
Prep Date: 11/23/2016 0915

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.00882	U	0.00882	0.0525
Benzene		0.00812		0.000703	0.00210
Bromobenzene		0.000756	U	0.000756	0.00210
Bromochloromethane		0.000577	U	0.000577	0.00210
Bromodichloromethane		0.000577	U	0.000577	0.00210
Bromoform		0.000577	U	0.000577	0.00210
Bromomethane		0.00126	U	0.00126	0.00210
2-Butanone (MEK)		0.00535	U	0.00535	0.0525
Carbon disulfide		0.00762		0.00378	0.00525
Carbon tetrachloride		0.000703	U	0.000703	0.00210
Chlorobenzene		0.000703	U	0.000703	0.00210
Chloroethane		0.00199	U	0.00199	0.00525
Chloroform		0.000703	U	0.000703	0.00210
Chloromethane		0.000703	U	0.000703	0.00210
cis-1,2-Dichloroethene		0.000703	U	0.000703	0.00210
cis-1,3-Dichloropropene		0.000703	U	0.000703	0.00210
Dibromochloromethane		0.000357	U	0.000357	0.00210
1,2-Dibromo-3-chloropropane		0.000735	U	0.000735	0.00525
1,2-Dibromoethane		0.00105	U	0.00105	0.00210
1,2-Dichlorobenzene		0.000357	U	0.000357	0.00210
1,3-Dichlorobenzene		0.000703	U	0.000703	0.00210
1,4-Dichlorobenzene		0.000703	U	0.000703	0.00210
Dichlorodifluoromethane		0.00105	U	0.00105	0.00210
1,1-Dichloroethane		0.000703	U	0.000703	0.00210
1,2-Dichloroethane		0.000703	U	0.000703	0.00210
1,1-Dichloroethene		0.000598	U	0.000598	0.00210
1,2-Dichloropropane		0.000987	U	0.000987	0.00210
1,3-Dichloropropane		0.000987	U	0.000987	0.00210
2,2-Dichloropropane		0.000703	U	0.000703	0.00210
1,1-Dichloropropene		0.000535	U	0.000535	0.00210
Ethylbenzene		0.000703	U	0.000703	0.00210
Hexachlorobutadiene		0.00120	U	0.00120	0.00525
2-Hexanone		0.0175	U	0.0175	0.0525
Iodomethane		0.00703	U	0.00703	0.0210
Isopropylbenzene		0.0228		0.000430	0.00210
Methylene bromide		0.000588	U	0.000588	0.00210
Methylene Chloride		0.000903	U	0.000903	0.0105
4-Methyl-2-pentanone (MIBK)		0.00199	U	0.00199	0.0525
Methyl tert butyl ether		0.00101	U	0.00101	0.00210
m,p-Xylene		0.0516		0.000588	0.00420
Naphthalene		0.00178	U	0.00178	0.00525
n-Butylbenzene		0.0161		0.00103	0.00210
N-Propylbenzene		0.0350		0.000703	0.00210
o-Chlorotoluene		0.000934	U	0.000934	0.00210
o-Xylene		0.000703	U	0.000703	0.00210
p-Chlorotoluene		0.000882	U	0.000882	0.00210

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: TP-312-6-7

Lab Sample ID: 490-116812-5 Date Sampled: 11/23/2016 1015
Client Matrix: Solid % Moisture: 18.7 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C Analysis Batch: 490-390647 Instrument ID: HP69
Prep Method: 5035A Prep Batch: 490-390330 Lab File ID: 113016-19.D
Dilution: 1.0 Initial Weight/Volume: 5.86 g
Analysis Date: 11/30/2016 1831 Final Weight/Volume: 5.0 mL
Prep Date: 11/23/2016 0915

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.00147	J	0.000703	0.00210
sec-Butylbenzene		0.0103		0.000703	0.00210
Styrene		0.00115	U	0.00115	0.00210
tert-Butylbenzene		0.00345		0.000945	0.00210
1,1,1,2-Tetrachloroethane		0.000703	U	0.000703	0.00210
1,1,2,2-Tetrachloroethane		0.00105	U	0.00105	0.00210
Tetrachloroethene		0.000766	U	0.000766	0.00210
Toluene		0.0225		0.000777	0.00210
trans-1,2-Dichloroethene		0.000703	U	0.000703	0.00210
trans-1,3-Dichloropropene		0.000703	U	0.000703	0.00210
1,2,3-Trichlorobenzene		0.000399	U	0.000399	0.00210
1,2,4-Trichlorobenzene		0.000703	U	0.000703	0.00210
1,1,1-Trichloroethane		0.000966	U	0.000966	0.00210
1,1,2-Trichloroethane		0.00147	U	0.00147	0.00525
Trichloroethene		0.00101	U	0.00101	0.00210
Trichlorofluoromethane		0.00105	U	0.00105	0.00210
1,2,3-Trichloropropane		0.000577	U	0.000577	0.00210
1,2,4-Trimethylbenzene		0.0118		0.00105	0.00210
1,3,5-Trimethylbenzene		0.00823		0.000787	0.00210
Vinyl acetate		0.00462	U	0.00462	0.0210
Vinyl chloride		0.00115	U	0.00115	0.00210
Xylenes (total)		0.0516		0.00129	0.00630

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	151	*	70 - 130
Dibromofluoromethane (Surr)	94		70 - 130
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
Toluene-d8 (Surr)	214	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: TP-312-6-7

Lab Sample ID: 490-116812-5 Date Sampled: 11/23/2016 1015
Client Matrix: Solid % Moisture: 18.7 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-19.D
Dilution:	1.0			Initial Weight/Volume:	5.86 g
Analysis Date:	11/30/2016 1831			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0915				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
110-54-3	Hexane	2.88	0.714	E
110-82-7	Cyclohexane	3.72	0.745	E
589-34-4	Hexane, 3-methyl-	3.79	0.210	J N
1113-56-0	1,3-Pentadiene, 2,3-dimethyl-	4.19	0.283	J N
108-87-2	Methylcyclohexane	4.52	1.42	E
591-47-9	Cyclohexene, 4-methyl-	4.79	0.287	J N
592-27-8	Heptane, 2-methyl-	4.95	0.242	J N
763-88-2	1,4-Hexadiene, 5-methyl-	5.18	0.241	J N
219726-60-0	1-Ethyl-2-(4-methylpentyl)cyclopentane	5.42	0.304	J N
1000150-99-3	Cyclopentane, 1,2-dimethyl-3-methylene-, trans-	5.64	0.304	J N

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END-438

Lab Sample ID: 490-116812-6 Date Sampled: 11/23/2016 0815
Client Matrix: Solid % Moisture: 12.3 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-20.D
Dilution:	1.0			Initial Weight/Volume:	6.84 g
Analysis Date:	11/30/2016 1901			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0715				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.00700	U	0.00700	0.0417
Benzene		0.000960	J	0.000559	0.00167
Bromochloromethane		0.000459	U	0.000459	0.00167
Bromodichloromethane		0.000459	U	0.000459	0.00167
Bromoform		0.000459	U	0.000459	0.00167
Bromomethane		0.00100	U	0.00100	0.00167
2-Butanone (MEK)		0.00425	U	0.00425	0.0417
Carbon disulfide		0.00337	J	0.00300	0.00417
Carbon tetrachloride		0.000559	U	0.000559	0.00167
Chlorobenzene		0.000559	U	0.000559	0.00167
Chloroethane		0.00158	U	0.00158	0.00417
Chloroform		0.000559	U	0.000559	0.00167
Chloromethane		0.000559	U	0.000559	0.00167
cis-1,2-Dichloroethene		0.000559	U	0.000559	0.00167
cis-1,3-Dichloropropene		0.000559	U	0.000559	0.00167
Dibromochloromethane		0.000283	U	0.000283	0.00167
1,2-Dibromoethane		0.000834	U	0.000834	0.00167
Dichlorodifluoromethane		0.000834	U	0.000834	0.00167
1,1-Dichloroethane		0.000559	U	0.000559	0.00167
1,2-Dichloroethane		0.000559	U	0.000559	0.00167
1,1-Dichloroethene		0.000475	U	0.000475	0.00167
1,2-Dichloropropane		0.000784	U	0.000784	0.00167
1,3-Dichloropropane		0.000784	U	0.000784	0.00167
2,2-Dichloropropane		0.000559	U	0.000559	0.00167
1,1-Dichloropropene		0.000425	U	0.000425	0.00167
Ethylbenzene		0.000559	U	0.000559	0.00167
2-Hexanone		0.0139	U	0.0139	0.0417
Iodomethane		0.00559	U	0.00559	0.0167
Isopropylbenzene		0.196		0.000342	0.00167
Methylene bromide		0.000467	U	0.000467	0.00167
Methylene Chloride		0.000717	U	0.000717	0.00834
4-Methyl-2-pentanone (MIBK)		0.00158	U	0.00158	0.0417
Methyl tert butyl ether		0.000800	U	0.000800	0.00167
m,p-Xylene		0.000467	U	0.000467	0.00333
o-Xylene		0.000559	U	0.000559	0.00167
Styrene		0.000917	U	0.000917	0.00167
1,1,1,2-Tetrachloroethane		0.000559	U	0.000559	0.00167
Tetrachloroethene		0.000609	U	0.000609	0.00167
Toluene		0.0120		0.000617	0.00167
trans-1,2-Dichloroethene		0.000559	U	0.000559	0.00167
trans-1,3-Dichloropropene		0.000559	U	0.000559	0.00167
1,1,1-Trichloroethane		0.000767	U	0.000767	0.00167
1,1,2-Trichloroethane		0.00117	U	0.00117	0.00417
Trichloroethene		0.000800	U	0.000800	0.00167
Trichlorofluoromethane		0.000834	U	0.000834	0.00167
Vinyl acetate		0.00367	U	0.00367	0.0167

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END-438

Lab Sample ID: 490-116812-6 Date Sampled: 11/23/2016 0815
Client Matrix: Solid % Moisture: 12.3 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-20.D
Dilution:	1.0			Initial Weight/Volume:	6.84 g
Analysis Date:	11/30/2016 1901			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0715				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl chloride		0.000917	U	0.000917	0.00167
Xylenes (total)		0.00103	U	0.00103	0.00500

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	439	*	70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	126		70 - 130
Toluene-d8 (Surr)	323	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END-438

Lab Sample ID: 490-116812-6 Date Sampled: 11/23/2016 0815
Client Matrix: Solid % Moisture: 12.3 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-20.D
Dilution:	1.0			Initial Weight/Volume:	6.84 g
Analysis Date:	11/30/2016 1901			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0715				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
110-82-7	Cyclohexane	3.72	1.42	E
108-87-2	Methylcyclohexane	4.51	1.80	E
589-81-1	Heptane, 3-methyl-	5.07	1.10	J N
53783-91-8	3-Cyclohexen-1-ol, 3-methyl-	5.42	1.41	J N
14044-41-8	2-Pyrazoline, 1,3,4-trimethyl-	5.57	1.45	J N
90485-44-2	1-Butene-3-one, dimethylhydrazone	5.66	1.21	J N
3073-66-3	Cyclohexane, 1,1,3-trimethyl-	6.11	1.30	J N
2234-75-5	Cyclohexane, 1,2,4-trimethyl-	6.29	1.26	J N
19489-10-2	cis-1-Ethyl-3-methyl-cyclohexane	7.03	1.27	J N
13395-76-1	Cyclohexanone, 2,3-dimethyl-	7.33	1.60	J N

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END-438

Lab Sample ID: 490-116812-6 Date Sampled: 11/23/2016 0815
Client Matrix: Solid % Moisture: 12.3 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-391219	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390327	Lab File ID:	120216-21.D
Dilution:	1.0			Initial Weight/Volume:	6.242 g
Analysis Date:	12/02/2016 1839			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0715				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0379	U	0.0379	0.105
1,2-Dibromo-3-chloropropane		0.0369	U	0.0369	0.264
1,2-Dichlorobenzene		0.0179	U	0.0179	0.105
1,3-Dichlorobenzene		0.0358	U	0.0358	0.105
1,4-Dichlorobenzene		0.0495	U	0.0495	0.105
Hexachlorobutadiene		0.0580	U *	0.0580	0.264
Naphthalene		0.553		0.0896	0.264
n-Butylbenzene		0.0527	U	0.0527	0.105
N-Propylbenzene		1.44		0.0358	0.105
o-Chlorotoluene		0.0485	U	0.0485	0.105
p-Chlorotoluene		0.0443	U	0.0443	0.105
p-Isopropyltoluene		0.0358	U	0.0358	0.105
sec-Butylbenzene		0.0358	U	0.0358	0.105
tert-Butylbenzene		0.0914	J	0.0527	0.105
1,1,2,2-Tetrachloroethane		0.0527	U	0.0527	0.105
1,2,3-Trichlorobenzene		0.0200	U	0.0200	0.105
1,2,4-Trichlorobenzene		0.0358	U	0.0358	0.105
1,2,3-Trichloropropane		0.0295	U	0.0295	0.105
1,2,4-Trimethylbenzene		0.120		0.0527	0.105
1,3,5-Trimethylbenzene		0.0401	U	0.0401	0.105

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	91		70 - 130
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
Toluene-d8 (Surr)	121		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: TP-311-6-7

Lab Sample ID: 490-116812-7 Date Sampled: 11/23/2016 1000
Client Matrix: Solid % Moisture: 27.0 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C Analysis Batch: 490-390647 Instrument ID: HP69
Prep Method: 5035A Prep Batch: 490-390330 Lab File ID: 113016-21.D
Dilution: 1.0 Initial Weight/Volume: 4.268 g
Analysis Date: 11/30/2016 1930 Final Weight/Volume: 5.0 mL
Prep Date: 11/23/2016 0900

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0745	J	0.0135	0.0803
Benzene		0.00374		0.00108	0.00321
Bromobenzene		0.00116	U	0.00116	0.00321
Bromochloromethane		0.000883	U	0.000883	0.00321
Bromodichloromethane		0.000883	U	0.000883	0.00321
Bromoform		0.000883	U	0.000883	0.00321
Bromomethane		0.00193	U	0.00193	0.00321
2-Butanone (MEK)		0.00819	U	0.00819	0.0803
Carbon disulfide		0.00578	U	0.00578	0.00803
Carbon tetrachloride		0.00108	U	0.00108	0.00321
Chlorobenzene		0.00108	U	0.00108	0.00321
Chloroethane		0.00305	U	0.00305	0.00803
Chloroform		0.00108	U	0.00108	0.00321
Chloromethane		0.00108	U	0.00108	0.00321
cis-1,2-Dichloroethene		0.00108	U	0.00108	0.00321
cis-1,3-Dichloropropene		0.00108	U	0.00108	0.00321
Dibromochloromethane		0.000546	U	0.000546	0.00321
1,2-Dibromo-3-chloropropane		0.00112	U	0.00112	0.00803
1,2-Dibromoethane		0.00161	U	0.00161	0.00321
1,2-Dichlorobenzene		0.000546	U	0.000546	0.00321
1,3-Dichlorobenzene		0.00108	U	0.00108	0.00321
1,4-Dichlorobenzene		0.00108	U	0.00108	0.00321
Dichlorodifluoromethane		0.00161	U	0.00161	0.00321
1,1-Dichloroethane		0.00108	U	0.00108	0.00321
1,2-Dichloroethane		0.00108	U	0.00108	0.00321
1,1-Dichloroethene		0.000915	U	0.000915	0.00321
1,2-Dichloropropane		0.00151	U	0.00151	0.00321
1,3-Dichloropropane		0.00151	U	0.00151	0.00321
2,2-Dichloropropane		0.00108	U	0.00108	0.00321
1,1-Dichloropropene		0.000819	U	0.000819	0.00321
Ethylbenzene		0.00108	U	0.00108	0.00321
Hexachlorobutadiene		0.00183	U	0.00183	0.00803
2-Hexanone		0.0268	U	0.0268	0.0803
Iodomethane		0.0108	U	0.0108	0.0321
Isopropylbenzene		0.00104	J	0.000658	0.00321
Methylene bromide		0.000899	U	0.000899	0.00321
Methylene Chloride		0.00138	U	0.00138	0.0161
4-Methyl-2-pentanone (MIBK)		0.00305	U	0.00305	0.0803
Methyl tert butyl ether		0.00154	U	0.00154	0.00321
m,p-Xylene		0.000899	U	0.000899	0.00642
Naphthalene		0.00311	J	0.00273	0.00803
n-Butylbenzene		0.00157	U	0.00157	0.00321
N-Propylbenzene		0.00173	J	0.00108	0.00321
o-Chlorotoluene		0.00143	U	0.00143	0.00321
o-Xylene		0.00108	U	0.00108	0.00321
p-Chlorotoluene		0.00135	U	0.00135	0.00321

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: TP-311-6-7

Lab Sample ID: 490-116812-7 Date Sampled: 11/23/2016 1000
Client Matrix: Solid % Moisture: 27.0 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-21.D
Dilution:	1.0			Initial Weight/Volume:	4.268 g
Analysis Date:	11/30/2016 1930			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.00108	U	0.00108	0.00321
sec-Butylbenzene		0.00108	U	0.00108	0.00321
Styrene		0.00177	U	0.00177	0.00321
tert-Butylbenzene		0.00144	U	0.00144	0.00321
1,1,1,2-Tetrachloroethane		0.00108	U	0.00108	0.00321
1,1,2,2-Tetrachloroethane		0.00161	U	0.00161	0.00321
Tetrachloroethene		0.00117	U	0.00117	0.00321
Toluene		0.00119	U	0.00119	0.00321
trans-1,2-Dichloroethene		0.00108	U	0.00108	0.00321
trans-1,3-Dichloropropene		0.00108	U	0.00108	0.00321
1,2,3-Trichlorobenzene		0.000610	U	0.000610	0.00321
1,2,4-Trichlorobenzene		0.00108	U	0.00108	0.00321
1,1,1-Trichloroethane		0.00148	U	0.00148	0.00321
1,1,2-Trichloroethane		0.00225	U	0.00225	0.00803
Trichloroethene		0.00154	U	0.00154	0.00321
Trichlorofluoromethane		0.00161	U	0.00161	0.00321
1,2,3-Trichloropropane		0.000883	U	0.000883	0.00321
1,2,4-Trimethylbenzene		0.00161	U	0.00161	0.00321
1,3,5-Trimethylbenzene		0.00120	U	0.00120	0.00321
Vinyl acetate		0.00706	U	0.00706	0.0321
Vinyl chloride		0.00177	U	0.00177	0.00321
Xylenes (total)		0.00197	U	0.00197	0.00963

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: TP-311-6-7

Lab Sample ID: 490-116812-7 Date Sampled: 11/23/2016 1000
Client Matrix: Solid % Moisture: 27.0 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-21.D
Dilution:	1.0			Initial Weight/Volume:	4.268 g
Analysis Date:	11/30/2016 1930			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0900				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
108-87-2	Methylcyclohexane	4.50	0.0939	
1120-21-4	Undecane	9.14	0.0858	J N
17302-36-2	5-Ethyldecane	9.78	0.0395	J N
112-40-3	Dodecane	10.35	0.158	J N
17301-23-4	Undecane, 2,6-dimethyl-	10.54	0.0392	J N
17312-80-0	Undecane, 2,4-dimethyl-	11.02	0.0429	J N
6975-98-0	Decane, 2-methyl-	11.23	0.0741	J N
629-50-5	Tridecane	11.51	0.135	J N
91-57-6	2-Methylnaphthalene	12.23	0.0398	B
629-62-9	Pentadecane	12.97	0.0373	J N

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: TP-310-6-7

Lab Sample ID: 490-116812-8 Date Sampled: 11/23/2016 0930
Client Matrix: Solid % Moisture: 13.6 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C Analysis Batch: 490-390647 Instrument ID: HP69
Prep Method: 5035A Prep Batch: 490-390330 Lab File ID: 113016-22.D
Dilution: 1.0 Initial Weight/Volume: 6.66 g
Analysis Date: 11/30/2016 2000 Final Weight/Volume: 5.0 mL
Prep Date: 11/23/2016 0830

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0684		0.00730	0.0434
Benzene		0.000727	J	0.000582	0.00174
Bromobenzene		0.000625	U	0.000625	0.00174
Bromochloromethane		0.000478	U	0.000478	0.00174
Bromodichloromethane		0.000478	U	0.000478	0.00174
Bromoform		0.000478	U	0.000478	0.00174
Bromomethane		0.00104	U	0.00104	0.00174
2-Butanone (MEK)		0.00659	J	0.00443	0.0434
Carbon disulfide		0.00313	U	0.00313	0.00434
Carbon tetrachloride		0.000582	U	0.000582	0.00174
Chlorobenzene		0.000582	U	0.000582	0.00174
Chloroethane		0.00165	U	0.00165	0.00434
Chloroform		0.000582	U	0.000582	0.00174
Chloromethane		0.000787	J	0.000582	0.00174
cis-1,2-Dichloroethene		0.000582	U	0.000582	0.00174
cis-1,3-Dichloropropene		0.000582	U	0.000582	0.00174
Dibromochloromethane		0.000295	U	0.000295	0.00174
1,2-Dibromo-3-chloropropane		0.000608	U	0.000608	0.00434
1,2-Dibromoethane		0.000868	U	0.000868	0.00174
1,2-Dichlorobenzene		0.000295	U	0.000295	0.00174
1,3-Dichlorobenzene		0.000582	U	0.000582	0.00174
1,4-Dichlorobenzene		0.000582	U	0.000582	0.00174
Dichlorodifluoromethane		0.000868	U	0.000868	0.00174
1,1-Dichloroethane		0.000582	U	0.000582	0.00174
1,2-Dichloroethane		0.000582	U	0.000582	0.00174
1,1-Dichloroethene		0.000495	U	0.000495	0.00174
1,2-Dichloropropane		0.000816	U	0.000816	0.00174
1,3-Dichloropropane		0.000816	U	0.000816	0.00174
2,2-Dichloropropane		0.000582	U	0.000582	0.00174
1,1-Dichloropropene		0.000443	U	0.000443	0.00174
Ethylbenzene		0.000582	U	0.000582	0.00174
Hexachlorobutadiene		0.000990	U	0.000990	0.00434
2-Hexanone		0.0145	U	0.0145	0.0434
Iodomethane		0.00582	U	0.00582	0.0174
Isopropylbenzene		0.000356	U	0.000356	0.00174
Methylene bromide		0.000486	U	0.000486	0.00174
Methylene Chloride		0.000747	U	0.000747	0.00868
4-Methyl-2-pentanone (MIBK)		0.00165	U	0.00165	0.0434
Methyl tert butyl ether		0.000834	U	0.000834	0.00174
m,p-Xylene		0.000486	U	0.000486	0.00347
Naphthalene		0.00148	U	0.00148	0.00434
n-Butylbenzene		0.000851	U	0.000851	0.00174
N-Propylbenzene		0.000582	U	0.000582	0.00174
o-Chlorotoluene		0.000773	U	0.000773	0.00174
o-Xylene		0.000582	U	0.000582	0.00174
p-Chlorotoluene		0.000730	U	0.000730	0.00174

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: TP-310-6-7

Lab Sample ID: 490-116812-8 Date Sampled: 11/23/2016 0930
Client Matrix: Solid % Moisture: 13.6 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C Analysis Batch: 490-390647 Instrument ID: HP69
Prep Method: 5035A Prep Batch: 490-390330 Lab File ID: 113016-22.D
Dilution: 1.0 Initial Weight/Volume: 6.66 g
Analysis Date: 11/30/2016 2000 Final Weight/Volume: 5.0 mL
Prep Date: 11/23/2016 0830

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000582	U	0.000582	0.00174
sec-Butylbenzene		0.000582	U	0.000582	0.00174
Styrene		0.000955	U	0.000955	0.00174
tert-Butylbenzene		0.000782	U	0.000782	0.00174
1,1,1,2-Tetrachloroethane		0.000582	U	0.000582	0.00174
1,1,2,2-Tetrachloroethane		0.000868	U	0.000868	0.00174
Tetrachloroethene		0.000634	U	0.000634	0.00174
Toluene		0.000643	U	0.000643	0.00174
trans-1,2-Dichloroethene		0.000582	U	0.000582	0.00174
trans-1,3-Dichloropropene		0.000582	U	0.000582	0.00174
1,2,3-Trichlorobenzene		0.000330	U	0.000330	0.00174
1,2,4-Trichlorobenzene		0.000582	U	0.000582	0.00174
1,1,1-Trichloroethane		0.000799	U	0.000799	0.00174
1,1,2-Trichloroethane		0.00122	U	0.00122	0.00434
Trichloroethene		0.000834	U	0.000834	0.00174
Trichlorofluoromethane		0.000868	U	0.000868	0.00174
1,2,3-Trichloropropane		0.000478	U	0.000478	0.00174
1,2,4-Trimethylbenzene		0.000868	U	0.000868	0.00174
1,3,5-Trimethylbenzene		0.000651	U	0.000651	0.00174
Vinyl acetate		0.00382	U	0.00382	0.0174
Vinyl chloride		0.000955	U	0.000955	0.00174
Xylenes (total)		0.00107	U	0.00107	0.00521

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	109		70 - 130
1,2-Dichloroethane-d4 (Surr)	107		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: TP-310-6-7

Lab Sample ID: 490-116812-8 Date Sampled: 11/23/2016 0930
Client Matrix: Solid % Moisture: 13.6 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-22.D
Dilution:	1.0			Initial Weight/Volume:	6.66 g
Analysis Date:	11/30/2016 2000			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0830				

Tentatively Identified Compounds **Number TIC's Found: 7**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
79-20-9	Methyl acetate	2.47	0.123	
110-54-3	Hexane	2.86	0.000720	J
110-82-7	Cyclohexane	3.70	0.00407	J
108-87-2	Methylcyclohexane	4.49	0.0152	
91-57-6	2-Methylnaphthalene	12.23	0.00705	J B
90-12-0	1-Methylnaphthalene	12.40	0.00573	J B
544-76-3	Hexadecane	12.97	0.00571	J N

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: TP-309-6-7

Lab Sample ID: 490-116812-9 Date Sampled: 11/23/2016 0900
Client Matrix: Solid % Moisture: 11.6 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-23.D
Dilution:	1.0			Initial Weight/Volume:	5.191 g
Analysis Date:	11/30/2016 2029			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.355		0.00916	0.0545
Benzene		0.00343		0.000730	0.00218
Bromobenzene		0.000785	U	0.000785	0.00218
Bromochloromethane		0.000600	U	0.000600	0.00218
Bromodichloromethane		0.000600	U	0.000600	0.00218
Bromoform		0.000600	U	0.000600	0.00218
Bromomethane		0.00131	U	0.00131	0.00218
2-Butanone (MEK)		0.0447	J	0.00556	0.0545
Carbon disulfide		0.00392	U	0.00392	0.00545
Carbon tetrachloride		0.000730	U	0.000730	0.00218
Chlorobenzene		0.000730	U	0.000730	0.00218
Chloroethane		0.00207	U	0.00207	0.00545
Chloroform		0.000730	U	0.000730	0.00218
Chloromethane		0.000730	U	0.000730	0.00218
cis-1,2-Dichloroethene		0.000730	U	0.000730	0.00218
cis-1,3-Dichloropropene		0.000730	U	0.000730	0.00218
Dibromochloromethane		0.000371	U	0.000371	0.00218
1,2-Dibromo-3-chloropropane		0.000763	U	0.000763	0.00545
1,2-Dibromoethane		0.00109	U	0.00109	0.00218
1,2-Dichlorobenzene		0.000371	U	0.000371	0.00218
1,3-Dichlorobenzene		0.000730	U	0.000730	0.00218
1,4-Dichlorobenzene		0.000730	U	0.000730	0.00218
Dichlorodifluoromethane		0.00109	U	0.00109	0.00218
1,1-Dichloroethane		0.000730	U	0.000730	0.00218
1,2-Dichloroethane		0.000730	U	0.000730	0.00218
1,1-Dichloroethene		0.000621	U	0.000621	0.00218
1,2-Dichloropropane		0.00102	U	0.00102	0.00218
1,3-Dichloropropane		0.00102	U	0.00102	0.00218
2,2-Dichloropropane		0.000730	U	0.000730	0.00218
1,1-Dichloropropene		0.000556	U	0.000556	0.00218
Ethylbenzene		0.000730	U	0.000730	0.00218
Hexachlorobutadiene		0.00124	U	0.00124	0.00545
2-Hexanone		0.0182	U	0.0182	0.0545
Iodomethane		0.00730	U	0.00730	0.0218
Isopropylbenzene		0.000447	U	0.000447	0.00218
Methylene bromide		0.000610	U	0.000610	0.00218
Methylene Chloride		0.000937	U	0.000937	0.0109
4-Methyl-2-pentanone (MIBK)		0.00207	U	0.00207	0.0545
Methyl tert butyl ether		0.00105	U	0.00105	0.00218
m,p-Xylene		0.000732	J	0.000610	0.00436
Naphthalene		0.00185	U	0.00185	0.00545
n-Butylbenzene		0.00107	U	0.00107	0.00218
N-Propylbenzene		0.000730	U	0.000730	0.00218
o-Chlorotoluene		0.000970	U	0.000970	0.00218
o-Xylene		0.000730	U	0.000730	0.00218
p-Chlorotoluene		0.000916	U	0.000916	0.00218

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: TP-309-6-7

Lab Sample ID: 490-116812-9 Date Sampled: 11/23/2016 0900
Client Matrix: Solid % Moisture: 11.6 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-23.D
Dilution:	1.0			Initial Weight/Volume:	5.191 g
Analysis Date:	11/30/2016 2029			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000730	U	0.000730	0.00218
sec-Butylbenzene		0.000730	U	0.000730	0.00218
Styrene		0.00120	U	0.00120	0.00218
tert-Butylbenzene		0.000981	U	0.000981	0.00218
1,1,1,2-Tetrachloroethane		0.000730	U	0.000730	0.00218
1,1,2,2-Tetrachloroethane		0.00109	U	0.00109	0.00218
Tetrachloroethene		0.000796	U	0.000796	0.00218
Toluene		0.000992	J	0.000807	0.00218
trans-1,2-Dichloroethene		0.000730	U	0.000730	0.00218
trans-1,3-Dichloropropene		0.000730	U	0.000730	0.00218
1,2,3-Trichlorobenzene		0.000414	U	0.000414	0.00218
1,2,4-Trichlorobenzene		0.000730	U	0.000730	0.00218
1,1,1-Trichloroethane		0.00100	U	0.00100	0.00218
1,1,2-Trichloroethane		0.00153	U	0.00153	0.00545
Trichloroethene		0.00105	U	0.00105	0.00218
Trichlorofluoromethane		0.00109	U	0.00109	0.00218
1,2,3-Trichloropropane		0.000600	U	0.000600	0.00218
1,2,4-Trimethylbenzene		0.00109	U	0.00109	0.00218
1,3,5-Trimethylbenzene		0.000818	U	0.000818	0.00218
Vinyl acetate		0.00480	U	0.00480	0.0218
Vinyl chloride		0.00120	U	0.00120	0.00218
Xylenes (total)		0.00134	U	0.00134	0.00654

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	110		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: TP-309-6-7

Lab Sample ID: 490-116812-9 Date Sampled: 11/23/2016 0900
Client Matrix: Solid % Moisture: 11.6 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-23.D
Dilution:	1.0			Initial Weight/Volume:	5.191 g
Analysis Date:	11/30/2016 2029			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0800				

Tentatively Identified Compounds **Number TIC's Found: 9**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
67-63-0	Isopropyl alcohol	2.35	0.0320	J
79-20-9	Methyl acetate	2.48	0.00986	J
110-54-3	Hexane	2.87	0.00280	J
110-82-7	Cyclohexane	3.71	0.00265	J
108-87-2	Methylcyclohexane	4.50	0.00900	J
112-40-3	Dodecane	10.35	0.0120	J N
629-50-5	Tridecane	11.50	0.00798	J N
91-57-6	2-Methylnaphthalene	12.23	0.00595	J B
90-12-0	1-Methylnaphthalene	12.40	0.00476	J B

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END-441

Lab Sample ID: 490-116812-10 Date Sampled: 11/23/2016 0945
Client Matrix: Solid % Moisture: 10.5 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-24.D
Dilution:	1.0			Initial Weight/Volume:	6.566 g
Analysis Date:	11/30/2016 2059			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0845				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.00715	U	0.00715	0.0426
Benzene		0.000607	J	0.000570	0.00170
Bromochloromethane		0.000468	U	0.000468	0.00170
Bromodichloromethane		0.000468	U	0.000468	0.00170
Bromoform		0.000468	U	0.000468	0.00170
Bromomethane		0.00102	U	0.00102	0.00170
2-Butanone (MEK)		0.00434	U	0.00434	0.0426
Carbon disulfide		0.0101		0.00306	0.00426
Carbon tetrachloride		0.000570	U	0.000570	0.00170
Chlorobenzene		0.000570	U	0.000570	0.00170
Chloroethane		0.00162	U	0.00162	0.00426
Chloroform		0.000570	U	0.000570	0.00170
Chloromethane		0.000570	U	0.000570	0.00170
cis-1,2-Dichloroethene		0.000570	U	0.000570	0.00170
cis-1,3-Dichloropropene		0.000570	U	0.000570	0.00170
Dibromochloromethane		0.000289	U	0.000289	0.00170
1,2-Dibromoethane		0.000851	U	0.000851	0.00170
Dichlorodifluoromethane		0.000851	U	0.000851	0.00170
1,1-Dichloroethane		0.000570	U	0.000570	0.00170
1,2-Dichloroethane		0.000570	U	0.000570	0.00170
1,1-Dichloroethene		0.000485	U	0.000485	0.00170
1,2-Dichloropropane		0.000800	U	0.000800	0.00170
1,3-Dichloropropane		0.000800	U	0.000800	0.00170
2,2-Dichloropropane		0.000570	U	0.000570	0.00170
1,1-Dichloropropene		0.000434	U	0.000434	0.00170
Ethylbenzene		0.000570	U	0.000570	0.00170
2-Hexanone		0.0142	U	0.0142	0.0426
Iodomethane		0.00570	U	0.00570	0.0170
Isopropylbenzene		0.141		0.000349	0.00170
Methylene bromide		0.000477	U	0.000477	0.00170
Methylene Chloride		0.000732	U	0.000732	0.00851
4-Methyl-2-pentanone (MIBK)		0.00162	U	0.00162	0.0426
Methyl tert butyl ether		0.000817	U	0.000817	0.00170
m,p-Xylene		0.000477	U	0.000477	0.00340
o-Xylene		0.000570	U	0.000570	0.00170
Styrene		0.000936	U	0.000936	0.00170
1,1,1,2-Tetrachloroethane		0.000570	U	0.000570	0.00170
Tetrachloroethene		0.000621	U	0.000621	0.00170
Toluene		0.000630	U	0.000630	0.00170
trans-1,2-Dichloroethene		0.000570	U	0.000570	0.00170
trans-1,3-Dichloropropene		0.000570	U	0.000570	0.00170
1,1,1-Trichloroethane		0.000783	U	0.000783	0.00170
1,1,2-Trichloroethane		0.00119	U	0.00119	0.00426
Trichloroethene		0.000817	U	0.000817	0.00170
Trichlorofluoromethane		0.000851	U	0.000851	0.00170
Vinyl acetate		0.00374	U	0.00374	0.0170

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END-441

Lab Sample ID: 490-116812-10 Date Sampled: 11/23/2016 0945
Client Matrix: Solid % Moisture: 10.5 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-24.D
Dilution:	1.0			Initial Weight/Volume:	6.566 g
Analysis Date:	11/30/2016 2059			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0845				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl chloride		0.000936	U	0.000936	0.00170
Xylenes (total)		0.00105	U	0.00105	0.00511

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	1033	*	70 - 130
Dibromofluoromethane (Surr)	141	*	70 - 130
1,2-Dichloroethane-d4 (Surr)	200	*	70 - 130
Toluene-d8 (Surr)	468	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END-441

Lab Sample ID: 490-116812-10 Date Sampled: 11/23/2016 0945
Client Matrix: Solid % Moisture: 10.5 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-24.D
Dilution:	1.0			Initial Weight/Volume:	6.566 g
Analysis Date:	11/30/2016 2059			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0845				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
592-41-6	1-Hexene	2.72	5.88	J N
763-29-1	1-Pentene, 2-methyl-	3.27	7.90	J N
110-82-7	Cyclohexane	3.71	3.83	E
2453-00-1	Cyclopentane, 1,3-dimethyl-	3.97	4.72	J N
108-87-2	Methylcyclohexane	4.52	5.01	E
53778-43-1	Cyclopropane, 1-ethyl-1-methyl-	5.43	4.23	J N
2207-01-4	Cyclohexane, 1,2-dimethyl-, cis-	5.57	4.01	J N
2234-75-5	Cyclohexane, 1,2,4-trimethyl-	6.30	4.98	J N
19489-10-2	cis-1-Ethyl-3-methyl-cyclohexane	6.76	8.33	J N
1678-92-8	Cyclohexane, propyl-	7.34	4.52	J N

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END-441

Lab Sample ID: 490-116812-10 Date Sampled: 11/23/2016 0945
Client Matrix: Solid % Moisture: 10.5 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-391219	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390327	Lab File ID:	120216-22.D
Dilution:	1.0			Initial Weight/Volume:	6.155 g
Analysis Date:	12/02/2016 1909			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0845				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0369	U	0.0369	0.103
1,2-Dibromo-3-chloropropane		0.0359	U	0.0359	0.256
1,2-Dichlorobenzene		0.0174	U	0.0174	0.103
1,3-Dichlorobenzene		0.0349	U	0.0349	0.103
1,4-Dichlorobenzene		0.0482	U	0.0482	0.103
Hexachlorobutadiene		0.0564	U *	0.0564	0.256
Naphthalene		0.146	J	0.0872	0.256
n-Butylbenzene		0.211		0.0513	0.103
N-Propylbenzene		0.528		0.0349	0.103
o-Chlorotoluene		0.0472	U	0.0472	0.103
p-Chlorotoluene		0.0431	U	0.0431	0.103
p-Isopropyltoluene		0.0349	U	0.0349	0.103
sec-Butylbenzene		0.0349	U	0.0349	0.103
tert-Butylbenzene		0.0513	U	0.0513	0.103
1,1,2,2-Tetrachloroethane		0.0513	U	0.0513	0.103
1,2,3-Trichlorobenzene		0.0195	U	0.0195	0.103
1,2,4-Trichlorobenzene		0.0349	U	0.0349	0.103
1,2,3-Trichloropropane		0.0287	U	0.0287	0.103
1,2,4-Trimethylbenzene		0.0513	U	0.0513	0.103
1,3,5-Trimethylbenzene		0.0390	U	0.0390	0.103

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	89		70 - 130
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
Toluene-d8 (Surr)	129		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 490-116812-11TB Date Sampled: 11/23/2016 0001
Client Matrix: Solid Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-14.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Analysis Date:	11/30/2016 1603			Final Weight/Volume:	5.0 mL
Prep Date:	11/22/2016 2301				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.00840	U	0.00840	0.0500
Benzene		0.000670	U	0.000670	0.00200
Bromobenzene		0.000720	U	0.000720	0.00200
Bromochloromethane		0.000550	U	0.000550	0.00200
Bromodichloromethane		0.000550	U	0.000550	0.00200
Bromoform		0.000550	U	0.000550	0.00200
Bromomethane		0.00120	U	0.00120	0.00200
2-Butanone (MEK)		0.00510	U	0.00510	0.0500
Carbon disulfide		0.00360	U	0.00360	0.00500
Carbon tetrachloride		0.000670	U	0.000670	0.00200
Chlorobenzene		0.000670	U	0.000670	0.00200
Chloroethane		0.00190	U	0.00190	0.00500
Chloroform		0.000670	U	0.000670	0.00200
Chloromethane		0.000670	U	0.000670	0.00200
cis-1,2-Dichloroethene		0.000670	U	0.000670	0.00200
cis-1,3-Dichloropropene		0.000670	U	0.000670	0.00200
Dibromochloromethane		0.000340	U	0.000340	0.00200
1,2-Dibromo-3-chloropropane		0.000700	U	0.000700	0.00500
1,2-Dibromoethane		0.00100	U	0.00100	0.00200
1,2-Dichlorobenzene		0.000340	U	0.000340	0.00200
1,3-Dichlorobenzene		0.000670	U	0.000670	0.00200
1,4-Dichlorobenzene		0.000670	U	0.000670	0.00200
Dichlorodifluoromethane		0.00100	U	0.00100	0.00200
1,1-Dichloroethane		0.000670	U	0.000670	0.00200
1,2-Dichloroethane		0.000670	U	0.000670	0.00200
1,1-Dichloroethene		0.000570	U	0.000570	0.00200
1,2-Dichloropropane		0.000940	U	0.000940	0.00200
1,3-Dichloropropane		0.000940	U	0.000940	0.00200
2,2-Dichloropropane		0.000670	U	0.000670	0.00200
1,1-Dichloropropene		0.000510	U	0.000510	0.00200
Ethylbenzene		0.000670	U	0.000670	0.00200
Hexachlorobutadiene		0.00114	U	0.00114	0.00500
2-Hexanone		0.0167	U	0.0167	0.0500
Iodomethane		0.00670	U	0.00670	0.0200
Isopropylbenzene		0.000410	U	0.000410	0.00200
Methylene bromide		0.000560	U	0.000560	0.00200
Methylene Chloride		0.000860	U	0.000860	0.0100
4-Methyl-2-pentanone (MIBK)		0.00190	U	0.00190	0.0500
Methyl tert butyl ether		0.000960	U	0.000960	0.00200
m,p-Xylene		0.000560	U	0.000560	0.00400
Naphthalene		0.00170	U	0.00170	0.00500
n-Butylbenzene		0.000980	U	0.000980	0.00200
N-Propylbenzene		0.000670	U	0.000670	0.00200
o-Chlorotoluene		0.000890	U	0.000890	0.00200
o-Xylene		0.000670	U	0.000670	0.00200
p-Chlorotoluene		0.000840	U	0.000840	0.00200

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 490-116812-11TB Date Sampled: 11/23/2016 0001
Client Matrix: Solid Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-14.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Analysis Date:	11/30/2016 1603			Final Weight/Volume:	5.0 mL
Prep Date:	11/22/2016 2301				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000670	U	0.000670	0.00200
sec-Butylbenzene		0.000670	U	0.000670	0.00200
Styrene		0.00110	U	0.00110	0.00200
tert-Butylbenzene		0.000900	U	0.000900	0.00200
1,1,1,2-Tetrachloroethane		0.000670	U	0.000670	0.00200
1,1,2,2-Tetrachloroethane		0.00100	U	0.00100	0.00200
Tetrachloroethene		0.000730	U	0.000730	0.00200
Toluene		0.000740	U	0.000740	0.00200
trans-1,2-Dichloroethene		0.000670	U	0.000670	0.00200
trans-1,3-Dichloropropene		0.000670	U	0.000670	0.00200
1,2,3-Trichlorobenzene		0.000380	U	0.000380	0.00200
1,2,4-Trichlorobenzene		0.000670	U	0.000670	0.00200
1,1,1-Trichloroethane		0.000920	U	0.000920	0.00200
1,1,2-Trichloroethane		0.00140	U	0.00140	0.00500
Trichloroethene		0.000960	U	0.000960	0.00200
Trichlorofluoromethane		0.00100	U	0.00100	0.00200
1,2,3-Trichloropropane		0.000550	U	0.000550	0.00200
1,2,4-Trimethylbenzene		0.00100	U	0.00100	0.00200
1,3,5-Trimethylbenzene		0.000750	U	0.000750	0.00200
Vinyl acetate		0.00440	U	0.00440	0.0200
Vinyl chloride		0.00110	U	0.00110	0.00200
Xylenes (total)		0.00123	U	0.00123	0.00600

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	119		70 - 130
1,2-Dichloroethane-d4 (Surr)	113		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 490-116812-11TB Date Sampled: 11/23/2016 0001
Client Matrix: Solid Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-14.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Analysis Date:	11/30/2016 1603			Final Weight/Volume:	5.0 mL
Prep Date:	11/22/2016 2301				

Tentatively Identified Compounds **Number TIC's Found: 1**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
91-57-6	2-Methylnaphthalene	12.24	0.00265	J B

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END-442

Lab Sample ID: 490-116812-12 Date Sampled: 11/23/2016 0945
Client Matrix: Solid % Moisture: 9.5 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-25.D
Dilution:	1.0			Initial Weight/Volume:	6.526 g
Analysis Date:	11/30/2016 2128			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0845				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.00711	U	0.00711	0.0423
Benzene		0.000567	U	0.000567	0.00169
Bromochloromethane		0.000466	U	0.000466	0.00169
Bromodichloromethane		0.000466	U	0.000466	0.00169
Bromoform		0.000466	U	0.000466	0.00169
Bromomethane		0.00102	U	0.00102	0.00169
2-Butanone (MEK)		0.00432	U	0.00432	0.0423
Carbon disulfide		0.00458		0.00305	0.00423
Carbon tetrachloride		0.000567	U	0.000567	0.00169
Chlorobenzene		0.000567	U	0.000567	0.00169
Chloroethane		0.00161	U	0.00161	0.00423
Chloroform		0.000567	U	0.000567	0.00169
Chloromethane		0.000567	U	0.000567	0.00169
cis-1,2-Dichloroethene		0.000567	U	0.000567	0.00169
cis-1,3-Dichloropropene		0.000567	U	0.000567	0.00169
Dibromochloromethane		0.000288	U	0.000288	0.00169
1,2-Dibromoethane		0.000847	U	0.000847	0.00169
Dichlorodifluoromethane		0.000847	U	0.000847	0.00169
1,1-Dichloroethane		0.000567	U	0.000567	0.00169
1,2-Dichloroethane		0.000567	U	0.000567	0.00169
1,1-Dichloroethene		0.000483	U	0.000483	0.00169
1,2-Dichloropropane		0.000796	U	0.000796	0.00169
1,3-Dichloropropane		0.000796	U	0.000796	0.00169
2,2-Dichloropropane		0.000567	U	0.000567	0.00169
1,1-Dichloropropene		0.000432	U	0.000432	0.00169
Ethylbenzene		0.000567	U	0.000567	0.00169
2-Hexanone		0.0141	U	0.0141	0.0423
Iodomethane		0.00567	U	0.00567	0.0169
Isopropylbenzene		0.0611		0.000347	0.00169
Methylene bromide		0.000474	U	0.000474	0.00169
Methylene Chloride		0.000728	U	0.000728	0.00847
4-Methyl-2-pentanone (MIBK)		0.00161	U	0.00161	0.0423
Methyl tert butyl ether		0.000813	U	0.000813	0.00169
m,p-Xylene		0.000474	U	0.000474	0.00339
o-Xylene		0.000567	U	0.000567	0.00169
Styrene		0.000931	U	0.000931	0.00169
1,1,1,2-Tetrachloroethane		0.000567	U	0.000567	0.00169
Tetrachloroethene		0.000618	U	0.000618	0.00169
Toluene		0.00549		0.000627	0.00169
trans-1,2-Dichloroethene		0.000567	U	0.000567	0.00169
trans-1,3-Dichloropropene		0.000567	U	0.000567	0.00169
1,1,1-Trichloroethane		0.000779	U	0.000779	0.00169
1,1,2-Trichloroethane		0.00119	U	0.00119	0.00423
Trichloroethene		0.000813	U	0.000813	0.00169
Trichlorofluoromethane		0.000847	U	0.000847	0.00169
Vinyl acetate		0.00373	U	0.00373	0.0169

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END-442

Lab Sample ID: 490-116812-12 Date Sampled: 11/23/2016 0945
Client Matrix: Solid % Moisture: 9.5 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-25.D
Dilution:	1.0			Initial Weight/Volume:	6.526 g
Analysis Date:	11/30/2016 2128			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0845				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl chloride		0.000931	U	0.000931	0.00169
Xylenes (total)		0.00104	U	0.00104	0.00508

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	400	*	70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	147	*	70 - 130
Toluene-d8 (Surr)	354	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END-442

Lab Sample ID: 490-116812-12 Date Sampled: 11/23/2016 0945
Client Matrix: Solid % Moisture: 9.5 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-25.D
Dilution:	1.0			Initial Weight/Volume:	6.526 g
Analysis Date:	11/30/2016 2128			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0845				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
110-82-7	Cyclohexane	3.72	1.73	E
25368-52-9	Propenal dimethylhydrazone	4.53	2.98	J N
15890-40-1	Cyclopentane, 1,2,3-trimethyl-, (1.alpha.,2.alpha.,3.beta.)-	4.81	0.782	J N
590-66-9	Cyclohexane, 1,1-dimethyl-	5.41	1.13	J N
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.57	1.18	J N
2207-03-6	Cyclohexane, 1,3-dimethyl-, trans-	5.65	1.15	J N
3073-66-3	Cyclohexane, 1,1,3-trimethyl-	6.09	1.09	J N
7667-60-9	Cyclohexane, 1,2,4-trimethyl-, (1.alpha.,2.beta.,4.beta.)-	6.28	1.08	J N
696-29-7	Cyclohexane, (1-methylethyl)-	7.32	1.29	J N
111-84-2	Nonane	7.48	0.853	J N

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END-442

Lab Sample ID: 490-116812-12 Date Sampled: 11/23/2016 0945
Client Matrix: Solid % Moisture: 9.5 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-391219	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390327	Lab File ID:	120216-23.D
Dilution:	1.0			Initial Weight/Volume:	5.793 g
Analysis Date:	12/02/2016 1938			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0845				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0381	U	0.0381	0.106
1,2-Dibromo-3-chloropropane		0.0371	U	0.0371	0.265
1,2-Dichlorobenzene		0.0180	U	0.0180	0.106
1,3-Dichlorobenzene		0.0360	U	0.0360	0.106
1,4-Dichlorobenzene		0.0498	U	0.0498	0.106
Hexachlorobutadiene		0.0582	U *	0.0582	0.265
Naphthalene		0.0900	U	0.0900	0.265
n-Butylbenzene		0.0529	U	0.0529	0.106
N-Propylbenzene		0.326		0.0360	0.106
o-Chlorotoluene		0.0487	U	0.0487	0.106
p-Chlorotoluene		0.0445	U	0.0445	0.106
p-Isopropyltoluene		0.0360	U	0.0360	0.106
sec-Butylbenzene		0.0360	U	0.0360	0.106
tert-Butylbenzene		0.0529	U	0.0529	0.106
1,1,2,2-Tetrachloroethane		0.0529	U	0.0529	0.106
1,2,3-Trichlorobenzene		0.0201	U	0.0201	0.106
1,2,4-Trichlorobenzene		0.0360	U	0.0360	0.106
1,2,3-Trichloropropane		0.0296	U	0.0296	0.106
1,2,4-Trimethylbenzene		0.0529	U	0.0529	0.106
1,3,5-Trimethylbenzene		0.0402	U	0.0402	0.106

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	90		70 - 130
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
Toluene-d8 (Surr)	121		70 - 130

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END-437

Lab Sample ID: 490-116812-13 Date Sampled: 11/23/2016 0815
Client Matrix: Solid % Moisture: 13.3 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-26.D
Dilution:	1.0			Initial Weight/Volume:	6.374 g
Analysis Date:	11/30/2016 2158			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0715				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.00760	U	0.00760	0.0453
Benzene		0.00142	J	0.000607	0.00181
Bromobenzene		0.000652	U	0.000652	0.00181
Bromochloromethane		0.000498	U	0.000498	0.00181
Bromodichloromethane		0.000498	U	0.000498	0.00181
Bromoform		0.000498	U	0.000498	0.00181
Bromomethane		0.00109	U	0.00109	0.00181
2-Butanone (MEK)		0.00462	U	0.00462	0.0453
Carbon disulfide		0.00326	U	0.00326	0.00453
Carbon tetrachloride		0.000607	U	0.000607	0.00181
Chlorobenzene		0.000607	U	0.000607	0.00181
Chloroethane		0.00172	U	0.00172	0.00453
Chloroform		0.000607	U	0.000607	0.00181
Chloromethane		0.000607	U	0.000607	0.00181
cis-1,2-Dichloroethene		0.000607	U	0.000607	0.00181
cis-1,3-Dichloropropene		0.000607	U	0.000607	0.00181
Dibromochloromethane		0.000308	U	0.000308	0.00181
1,2-Dibromo-3-chloropropane		0.000634	U	0.000634	0.00453
1,2-Dibromoethane		0.000905	U	0.000905	0.00181
1,2-Dichlorobenzene		0.000308	U	0.000308	0.00181
1,3-Dichlorobenzene		0.000607	U	0.000607	0.00181
1,4-Dichlorobenzene		0.000607	U	0.000607	0.00181
Dichlorodifluoromethane		0.000905	U	0.000905	0.00181
1,1-Dichloroethane		0.000607	U	0.000607	0.00181
1,2-Dichloroethane		0.000607	U	0.000607	0.00181
1,1-Dichloroethene		0.000516	U	0.000516	0.00181
1,2-Dichloropropane		0.000851	U	0.000851	0.00181
1,3-Dichloropropane		0.000851	U	0.000851	0.00181
2,2-Dichloropropane		0.000607	U	0.000607	0.00181
1,1-Dichloropropene		0.000462	U	0.000462	0.00181
Ethylbenzene		0.000607	U	0.000607	0.00181
Hexachlorobutadiene		0.00103	U	0.00103	0.00453
2-Hexanone		0.0151	U	0.0151	0.0453
Iodomethane		0.00607	U	0.00607	0.0181
Isopropylbenzene		0.0696		0.000371	0.00181
Methylene bromide		0.000507	U	0.000507	0.00181
Methylene Chloride		0.000779	U	0.000779	0.00905
4-Methyl-2-pentanone (MIBK)		0.00172	U	0.00172	0.0453
Methyl tert butyl ether		0.000869	U	0.000869	0.00181
m,p-Xylene		0.000507	U	0.000507	0.00362
Naphthalene		0.00292	J	0.00154	0.00453
n-Butylbenzene		0.0160		0.000887	0.00181
N-Propylbenzene		0.0918		0.000607	0.00181
o-Chlorotoluene		0.000806	U	0.000806	0.00181
o-Xylene		0.000607	U	0.000607	0.00181
p-Chlorotoluene		0.000760	U	0.000760	0.00181

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END-437

Lab Sample ID: 490-116812-13 Date Sampled: 11/23/2016 0815
Client Matrix: Solid % Moisture: 13.3 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-26.D
Dilution:	1.0			Initial Weight/Volume:	6.374 g
Analysis Date:	11/30/2016 2158			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0715				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000607	U	0.000607	0.00181
sec-Butylbenzene		0.0307		0.000607	0.00181
Styrene		0.000996	U	0.000996	0.00181
tert-Butylbenzene		0.00390		0.000815	0.00181
1,1,1,2-Tetrachloroethane		0.000607	U	0.000607	0.00181
1,1,2,2-Tetrachloroethane		0.000905	U	0.000905	0.00181
Tetrachloroethene		0.000661	U	0.000661	0.00181
Toluene		0.000838	J	0.000670	0.00181
trans-1,2-Dichloroethene		0.000607	U	0.000607	0.00181
trans-1,3-Dichloropropene		0.000607	U	0.000607	0.00181
1,2,3-Trichlorobenzene		0.000344	U	0.000344	0.00181
1,2,4-Trichlorobenzene		0.000607	U	0.000607	0.00181
1,1,1-Trichloroethane		0.000833	U	0.000833	0.00181
1,1,2-Trichloroethane		0.00127	U	0.00127	0.00453
Trichloroethene		0.000869	U	0.000869	0.00181
Trichlorofluoromethane		0.000905	U	0.000905	0.00181
1,2,3-Trichloropropane		0.000498	U	0.000498	0.00181
1,2,4-Trimethylbenzene		0.0220		0.000905	0.00181
1,3,5-Trimethylbenzene		0.0354		0.000679	0.00181
Vinyl acetate		0.00398	U	0.00398	0.0181
Vinyl chloride		0.000996	U	0.000996	0.00181
Xylenes (total)		0.00111	U	0.00111	0.00543

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	151	*	70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	117		70 - 130
Toluene-d8 (Surr)	260	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END-437

Lab Sample ID: 490-116812-13 Date Sampled: 11/23/2016 0815
Client Matrix: Solid % Moisture: 13.3 Date Received: 11/28/2016 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-390647	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-390330	Lab File ID:	113016-26.D
Dilution:	1.0			Initial Weight/Volume:	6.374 g
Analysis Date:	11/30/2016 2158			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0715				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
110-82-7	Cyclohexane	3.71	1.01	E
1759-58-6	Cyclopentane, 1,3-dimethyl-, trans-	3.99	0.500	J N
108-87-2	Methylcyclohexane	4.53	1.51	E
4126-78-7	Cycloheptane, methyl-	5.40	0.671	J N
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.55	0.739	J N
2207-03-6	Cyclohexane, 1,3-dimethyl-, trans-	5.64	0.547	J N
1678-91-7	Cyclohexane, ethyl-	6.04	0.675	J N
3073-66-3	Cyclohexane, 1,1,3-trimethyl-	6.09	0.643	J N
2234-75-5	Cyclohexane, 1,2,4-trimethyl-	6.27	0.496	J N
13395-76-1	Cyclohexanone, 2,3-dimethyl-	7.31	0.552	J N

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END 436

Lab Sample ID: 490-116812-1 Date Sampled: 11/23/2016 0800
Client Matrix: Solid % Moisture: 10.6 Date Received: 11/28/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-391351	Instrument ID:	HP83
Prep Method:	3550C	Prep Batch:	490-390996	Lab File ID:	120216-010.D
Dilution:	1.0			Initial Weight/Volume:	30.08 g
Analysis Date:	12/02/2016 1525			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0357	U	0.0357	0.0747
Acenaphthylene		0.0324	U	0.0324	0.0747
Aniline		0.282	U	0.282	0.747
Anthracene		0.0324	U	0.0324	0.0747
Benzidine		0.228	U *	0.228	0.372
Benzo(a)anthracene		0.0335	U	0.0335	0.0747
Benzo(a)pyrene		0.0301	U	0.0301	0.0747
Benzo(b)fluoranthene		0.0312	U	0.0312	0.0747
Benzo(g,h,i)perylene		0.0368	U	0.0368	0.0747
Benzoic acid		0.0669	U	0.0669	0.372
Benzo(k)fluoranthene		0.0301	U	0.0301	0.0747
Benzyl alcohol		0.216	U	0.216	0.372
Bis(2-chloroethoxy)methane		0.223	U	0.223	0.372
Bis(2-chloroethyl)ether		0.238	U	0.238	0.372
bis (2-chloroisopropyl) ether		0.221	U	0.221	0.372
Bis(2-ethylhexyl)phthalate		0.231	U	0.231	0.372
4-Bromophenyl phenyl ether		0.229	U	0.229	0.372
Butyl benzyl phthalate		0.240	U	0.240	0.372
Carbazole		0.231	U	0.231	0.372
4-Chloroaniline		0.253	U	0.253	0.372
4-Chloro-3-methylphenol		0.187	U	0.187	0.372
2-Chloronaphthalene		0.233	U	0.233	0.372
2-Chlorophenol		0.213	U	0.213	0.372
4-Chlorophenyl phenyl ether		0.224	U	0.224	0.372
Chrysene		0.0413	U	0.0413	0.0747
Dibenzo(a,h)anthracene		0.0357	U	0.0357	0.0747
Dibenzofuran		0.234	U	0.234	0.372
1,2-Dichlorobenzene		0.212	U	0.212	0.372
1,3-Dichlorobenzene		0.212	U	0.212	0.372
1,4-Dichlorobenzene		0.219	U	0.219	0.372
3,3'-Dichlorobenzidine		0.228	U *	0.228	0.747
2,4-Dichlorophenol		0.195	U	0.195	0.372
Diethyl phthalate		0.237	U	0.237	0.372
2,4-Dimethylphenol		0.374	U	0.374	0.747
Dimethyl phthalate		0.231	U	0.231	0.372
Di-n-butyl phthalate		0.235	U	0.235	0.372
4,6-Dinitro-o-cresol		0.255	U	0.255	0.372
2,4-Dinitrophenol		0.280	U	0.280	0.372
2,4-Dinitrotoluene		0.232	U	0.232	0.372
2,6-Dinitrotoluene		0.249	U	0.249	0.372
Di-n-octyl phthalate		0.199	U	0.199	0.372
1,2-Diphenylhydrazine (as Azobenzene)		0.261	U	0.261	0.372
Fluoranthene		0.0379	U	0.0379	0.0747
Fluorene		0.0324	U	0.0324	0.0747
Hexachlorobenzene		0.279	U	0.279	0.372
Hexachlorobutadiene		0.186	U	0.186	0.372

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END 436

Lab Sample ID: 490-116812-1 Date Sampled: 11/23/2016 0800
Client Matrix: Solid % Moisture: 10.6 Date Received: 11/28/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-391351	Instrument ID:	HP83
Prep Method:	3550C	Prep Batch:	490-390996	Lab File ID:	120216-010.D
Dilution:	1.0			Initial Weight/Volume:	30.08 g
Analysis Date:	12/02/2016 1525			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.167	U	0.167	0.372
Hexachloroethane		0.202	U	0.202	0.372
Ideno(1,2,3-cd)pyrene		0.0324	U	0.0324	0.0747
Isophorone		0.210	U	0.210	0.372
1-Methylnaphthalene		0.0312	U	0.0312	0.0747
2-Methylnaphthalene		0.0290	U	0.0290	0.0747
Naphthalene		0.0324	U	0.0324	0.0747
2-Nitroaniline		0.231	U	0.231	0.372
3-Nitroaniline		0.257	U	0.257	0.747
4-Nitroaniline		0.266	U	0.266	0.747
Nitrobenzene		0.224	U	0.224	0.372
2-Nitrophenol		0.271	U	0.271	0.372
4-Nitrophenol		0.426	U	0.426	0.747
N-Nitrosodimethylamine		0.0223	U	0.0223	0.372
N-Nitrosodi-n-propylamine		0.216	U	0.216	0.372
N-Nitrosodiphenylamine		0.0591	U	0.0591	0.372
Pentachlorophenol		0.297	U	0.297	0.747
Phenanthrene		0.0379	U	0.0379	0.0747
Phenol		0.226	U	0.226	0.372
Pyrene		0.0379	U	0.0379	0.0747
Pyridine		0.222	U	0.222	0.747
1,2,4-Trichlorobenzene		0.202	U	0.202	0.372
2,4,5-Trichlorophenol		0.243	U	0.243	0.372
2,4,6-Trichlorophenol		0.214	U	0.214	0.372

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	66		29 - 120
2-Fluorophenol (Surr)	59		10 - 120
Nitrobenzene-d5 (Surr)	84		27 - 120
Phenol-d5 (Surr)	69		10 - 120
Terphenyl-d14 (Surr)	77		13 - 120
2,4,6-Tribromophenol (Surr)	47		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END 440

Lab Sample ID: 490-116812-2 Date Sampled: 11/23/2016 0830
Client Matrix: Solid % Moisture: 13.1 Date Received: 11/28/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-391351	Instrument ID:	HP83
Prep Method:	3550C	Prep Batch:	490-390996	Lab File ID:	120216-013.D
Dilution:	1.0			Initial Weight/Volume:	30.27 g
Analysis Date:	12/02/2016 1623			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.192		0.0365	0.0764
Acenaphthylene		0.0331	U	0.0331	0.0764
Aniline		0.289	U	0.289	0.764
Anthracene		0.165		0.0331	0.0764
Benzidine		0.233	U *	0.233	0.380
Benzo(a)anthracene		0.0543	J	0.0342	0.0764
Benzo(a)pyrene		0.0308	U	0.0308	0.0764
Benzo(b)fluoranthene		0.0319	U	0.0319	0.0764
Benzo(g,h,i)perylene		0.0494	J	0.0376	0.0764
Benzoic acid		0.0684	U	0.0684	0.380
Benzo(k)fluoranthene		0.0308	U	0.0308	0.0764
Benzyl alcohol		0.221	U	0.221	0.380
Bis(2-chloroethoxy)methane		0.228	U	0.228	0.380
Bis(2-chloroethyl)ether		0.243	U	0.243	0.380
bis (2-chloroisopropyl) ether		0.226	U	0.226	0.380
Bis(2-ethylhexyl)phthalate		0.236	U	0.236	0.380
4-Bromophenyl phenyl ether		0.234	U	0.234	0.380
Butyl benzyl phthalate		0.245	U	0.245	0.380
Carbazole		0.236	U	0.236	0.380
4-Chloroaniline		0.259	U	0.259	0.380
4-Chloro-3-methylphenol		0.192	U	0.192	0.380
2-Chloronaphthalene		0.238	U	0.238	0.380
2-Chlorophenol		0.218	U	0.218	0.380
4-Chlorophenyl phenyl ether		0.229	U	0.229	0.380
Chrysene		0.169		0.0422	0.0764
Dibenzo(a,h)anthracene		0.0365	U	0.0365	0.0764
Dibenzofuran		0.239	U	0.239	0.380
1,2-Dichlorobenzene		0.217	U	0.217	0.380
1,3-Dichlorobenzene		0.217	U	0.217	0.380
1,4-Dichlorobenzene		0.224	U	0.224	0.380
3,3'-Dichlorobenzidine		0.233	U *	0.233	0.764
2,4-Dichlorophenol		0.200	U	0.200	0.380
Diethyl phthalate		0.242	U	0.242	0.380
2,4-Dimethylphenol		0.382	U	0.382	0.764
Dimethyl phthalate		0.236	U	0.236	0.380
Di-n-butyl phthalate		0.241	U	0.241	0.380
4,6-Dinitro-o-cresol		0.261	U	0.261	0.380
2,4-Dinitrophenol		0.286	U	0.286	0.380
2,4-Dinitrotoluene		0.237	U	0.237	0.380
2,6-Dinitrotoluene		0.254	U	0.254	0.380
Di-n-octyl phthalate		0.203	U	0.203	0.380
1,2-Diphenylhydrazine (as Azobenzene)		0.267	U	0.267	0.380
Fluoranthene		0.0516	J	0.0388	0.0764
Fluorene		0.290		0.0331	0.0764
Hexachlorobenzene		0.285	U	0.285	0.380
Hexachlorobutadiene		0.190	U	0.190	0.380

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END 440

Lab Sample ID: 490-116812-2 Date Sampled: 11/23/2016 0830
Client Matrix: Solid % Moisture: 13.1 Date Received: 11/28/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-391351	Instrument ID:	HP83
Prep Method:	3550C	Prep Batch:	490-390996	Lab File ID:	120216-013.D
Dilution:	1.0			Initial Weight/Volume:	30.27 g
Analysis Date:	12/02/2016 1623			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.171	U	0.171	0.380
Hexachloroethane		0.206	U	0.206	0.380
Ideno(1,2,3-cd)pyrene		0.0331	U	0.0331	0.0764
Isophorone		0.214	U	0.214	0.380
1-Methylnaphthalene		1.02		0.0319	0.0764
2-Methylnaphthalene		0.316		0.0296	0.0764
Naphthalene		0.157		0.0331	0.0764
2-Nitroaniline		0.236	U	0.236	0.380
3-Nitroaniline		0.262	U	0.262	0.764
4-Nitroaniline		0.271	U	0.271	0.764
Nitrobenzene		0.229	U	0.229	0.380
2-Nitrophenol		0.277	U	0.277	0.380
4-Nitrophenol		0.436	U	0.436	0.764
N-Nitrosodimethylamine		0.0228	U	0.0228	0.380
N-Nitrosodi-n-propylamine		0.221	U	0.221	0.380
N-Nitrosodiphenylamine		0.0604	U	0.0604	0.380
Pentachlorophenol		0.303	U	0.303	0.764
Phenanthrene		0.552		0.0388	0.0764
Phenol		0.231	U	0.231	0.380
Pyrene		0.0388	U	0.0388	0.0764
Pyridine		0.227	U	0.227	0.764
1,2,4-Trichlorobenzene		0.206	U	0.206	0.380
2,4,5-Trichlorophenol		0.249	U	0.249	0.380
2,4,6-Trichlorophenol		0.219	U	0.219	0.380

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	76		29 - 120
2-Fluorophenol (Surr)	60		10 - 120
Nitrobenzene-d5 (Surr)	89		27 - 120
Phenol-d5 (Surr)	69		10 - 120
Terphenyl-d14 (Surr)	85		13 - 120
2,4,6-Tribromophenol (Surr)	72		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END 439

Lab Sample ID: 490-116812-3 Date Sampled: 11/23/2016 0830
Client Matrix: Solid % Moisture: 14.6 Date Received: 11/28/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-391351	Instrument ID:	HP83
Prep Method:	3550C	Prep Batch:	490-390996	Lab File ID:	120216-014.D
Dilution:	1.0			Initial Weight/Volume:	30.56 g
Analysis Date:	12/02/2016 1643			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0368	U	0.0368	0.0771
Acenaphthylene		0.0334	U	0.0334	0.0771
Aniline		0.291	U	0.291	0.771
Anthracene		0.0671	J	0.0334	0.0771
Benzidine		0.235	U *	0.235	0.383
Benzo(a)anthracene		0.0345	U	0.0345	0.0771
Benzo(a)pyrene		0.0311	U	0.0311	0.0771
Benzo(b)fluoranthene		0.0322	U	0.0322	0.0771
Benzo(g,h,i)perylene		0.0380	U	0.0380	0.0771
Benzoic acid		0.0690	U	0.0690	0.383
Benzo(k)fluoranthene		0.0311	U	0.0311	0.0771
Benzyl alcohol		0.223	U	0.223	0.383
Bis(2-chloroethoxy)methane		0.230	U	0.230	0.383
Bis(2-chloroethyl)ether		0.245	U	0.245	0.383
bis (2-chloroisopropyl) ether		0.228	U	0.228	0.383
Bis(2-ethylhexyl)phthalate		0.238	U	0.238	0.383
4-Bromophenyl phenyl ether		0.236	U	0.236	0.383
Butyl benzyl phthalate		0.247	U	0.247	0.383
Carbazole		0.238	U	0.238	0.383
4-Chloroaniline		0.261	U	0.261	0.383
4-Chloro-3-methylphenol		0.193	U	0.193	0.383
2-Chloronaphthalene		0.240	U	0.240	0.383
2-Chlorophenol		0.220	U	0.220	0.383
4-Chlorophenyl phenyl ether		0.231	U	0.231	0.383
Chrysene		0.0426	U	0.0426	0.0771
Dibenzo(a,h)anthracene		0.0368	U	0.0368	0.0771
Dibenzofuran		0.242	U	0.242	0.383
1,2-Dichlorobenzene		0.219	U	0.219	0.383
1,3-Dichlorobenzene		0.219	U	0.219	0.383
1,4-Dichlorobenzene		0.225	U	0.225	0.383
3,3'-Dichlorobenzidine		0.235	U *	0.235	0.771
2,4-Dichlorophenol		0.201	U	0.201	0.383
Diethyl phthalate		0.244	U	0.244	0.383
2,4-Dimethylphenol		0.385	U	0.385	0.771
Dimethyl phthalate		0.238	U	0.238	0.383
Di-n-butyl phthalate		0.243	U	0.243	0.383
4,6-Dinitro-o-cresol		0.263	U	0.263	0.383
2,4-Dinitrophenol		0.289	U	0.289	0.383
2,4-Dinitrotoluene		0.239	U	0.239	0.383
2,6-Dinitrotoluene		0.256	U	0.256	0.383
Di-n-octyl phthalate		0.205	U	0.205	0.383
1,2-Diphenylhydrazine (as Azobenzene)		0.269	U	0.269	0.383
Fluoranthene		0.0391	U	0.0391	0.0771
Fluorene		0.0773		0.0334	0.0771
Hexachlorobenzene		0.288	U	0.288	0.383
Hexachlorobutadiene		0.192	U	0.192	0.383

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END 439

Lab Sample ID: 490-116812-3 Date Sampled: 11/23/2016 0830
Client Matrix: Solid % Moisture: 14.6 Date Received: 11/28/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-391351	Instrument ID:	HP83
Prep Method:	3550C	Prep Batch:	490-390996	Lab File ID:	120216-014.D
Dilution:	1.0			Initial Weight/Volume:	30.56 g
Analysis Date:	12/02/2016 1643			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.173	U	0.173	0.383
Hexachloroethane		0.208	U	0.208	0.383
Ideno(1,2,3-cd)pyrene		0.0334	U	0.0334	0.0771
Isophorone		0.216	U	0.216	0.383
1-Methylnaphthalene		0.218		0.0322	0.0771
2-Methylnaphthalene		0.219		0.0299	0.0771
Naphthalene		0.0334	U	0.0334	0.0771
2-Nitroaniline		0.238	U	0.238	0.383
3-Nitroaniline		0.265	U	0.265	0.771
4-Nitroaniline		0.274	U	0.274	0.771
Nitrobenzene		0.231	U	0.231	0.383
2-Nitrophenol		0.279	U	0.279	0.383
4-Nitrophenol		0.439	U	0.439	0.771
N-Nitrosodimethylamine		0.0230	U	0.0230	0.383
N-Nitrosodi-n-propylamine		0.223	U	0.223	0.383
N-Nitrosodiphenylamine		0.0610	U	0.0610	0.383
Pentachlorophenol		0.306	U	0.306	0.771
Phenanthrene		0.129		0.0391	0.0771
Phenol		0.233	U	0.233	0.383
Pyrene		0.0391	U	0.0391	0.0771
Pyridine		0.229	U	0.229	0.771
1,2,4-Trichlorobenzene		0.208	U	0.208	0.383
2,4,5-Trichlorophenol		0.251	U	0.251	0.383
2,4,6-Trichlorophenol		0.221	U	0.221	0.383

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	72		29 - 120
2-Fluorophenol (Surr)	62		10 - 120
Nitrobenzene-d5 (Surr)	89		27 - 120
Phenol-d5 (Surr)	72		10 - 120
Terphenyl-d14 (Surr)	77		13 - 120
2,4,6-Tribromophenol (Surr)	60		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END 435

Lab Sample ID: 490-116812-4 Date Sampled: 11/23/2016 0800
Client Matrix: Solid % Moisture: 11.4 Date Received: 11/28/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-391351	Instrument ID:	HP83
Prep Method:	3550C	Prep Batch:	490-390996	Lab File ID:	120216-015.D
Dilution:	1.0			Initial Weight/Volume:	30.69 g
Analysis Date:	12/02/2016 1702			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0353	U	0.0353	0.0740
Acenaphthylene		0.0320	U	0.0320	0.0740
Aniline		0.279	U	0.279	0.740
Anthracene		0.0320	U	0.0320	0.0740
Benzidine		0.225	U *	0.225	0.368
Benzo(a)anthracene		0.0331	U	0.0331	0.0740
Benzo(a)pyrene		0.0298	U	0.0298	0.0740
Benzo(b)fluoranthene		0.0309	U	0.0309	0.0740
Benzo(g,h,i)perylene		0.0364	U	0.0364	0.0740
Benzoic acid		0.0662	U	0.0662	0.368
Benzo(k)fluoranthene		0.0298	U	0.0298	0.0740
Benzyl alcohol		0.214	U	0.214	0.368
Bis(2-chloroethoxy)methane		0.221	U	0.221	0.368
Bis(2-chloroethyl)ether		0.235	U	0.235	0.368
bis (2-chloroisopropyl) ether		0.219	U	0.219	0.368
Bis(2-ethylhexyl)phthalate		0.229	U	0.229	0.368
4-Bromophenyl phenyl ether		0.226	U	0.226	0.368
Butyl benzyl phthalate		0.237	U	0.237	0.368
Carbazole		0.229	U	0.229	0.368
4-Chloroaniline		0.251	U	0.251	0.368
4-Chloro-3-methylphenol		0.185	U	0.185	0.368
2-Chloronaphthalene		0.231	U	0.231	0.368
2-Chlorophenol		0.211	U	0.211	0.368
4-Chlorophenyl phenyl ether		0.222	U	0.222	0.368
Chrysene		0.0408	U	0.0408	0.0740
Dibenzo(a,h)anthracene		0.0353	U	0.0353	0.0740
Dibenzofuran		0.232	U	0.232	0.368
1,2-Dichlorobenzene		0.210	U	0.210	0.368
1,3-Dichlorobenzene		0.210	U	0.210	0.368
1,4-Dichlorobenzene		0.216	U	0.216	0.368
3,3'-Dichlorobenzidine		0.225	U *	0.225	0.740
2,4-Dichlorophenol		0.193	U	0.193	0.368
Diethyl phthalate		0.234	U	0.234	0.368
2,4-Dimethylphenol		0.370	U	0.370	0.740
Dimethyl phthalate		0.229	U	0.229	0.368
Di-n-butyl phthalate		0.233	U	0.233	0.368
4,6-Dinitro-o-cresol		0.253	U	0.253	0.368
2,4-Dinitrophenol		0.277	U	0.277	0.368
2,4-Dinitrotoluene		0.230	U	0.230	0.368
2,6-Dinitrotoluene		0.246	U	0.246	0.368
Di-n-octyl phthalate		0.196	U	0.196	0.368
1,2-Diphenylhydrazine (as Azobenzene)		0.258	U	0.258	0.368
Fluoranthene		0.0375	U	0.0375	0.0740
Fluorene		0.0320	U	0.0320	0.0740
Hexachlorobenzene		0.276	U	0.276	0.368
Hexachlorobutadiene		0.184	U	0.184	0.368

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END 435

Lab Sample ID: 490-116812-4 Date Sampled: 11/23/2016 0800
Client Matrix: Solid % Moisture: 11.4 Date Received: 11/28/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-391351	Instrument ID:	HP83
Prep Method:	3550C	Prep Batch:	490-390996	Lab File ID:	120216-015.D
Dilution:	1.0			Initial Weight/Volume:	30.69 g
Analysis Date:	12/02/2016 1702			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.166	U	0.166	0.368
Hexachloroethane		0.200	U	0.200	0.368
Ideno(1,2,3-cd)pyrene		0.0320	U	0.0320	0.0740
Isophorone		0.208	U	0.208	0.368
1-Methylnaphthalene		0.136		0.0309	0.0740
2-Methylnaphthalene		0.105		0.0287	0.0740
Naphthalene		0.0320	U	0.0320	0.0740
2-Nitroaniline		0.229	U	0.229	0.368
3-Nitroaniline		0.254	U	0.254	0.740
4-Nitroaniline		0.263	U	0.263	0.740
Nitrobenzene		0.222	U	0.222	0.368
2-Nitrophenol		0.268	U	0.268	0.368
4-Nitrophenol		0.422	U	0.422	0.740
N-Nitrosodimethylamine		0.0221	U	0.0221	0.368
N-Nitrosodi-n-propylamine		0.214	U	0.214	0.368
N-Nitrosodiphenylamine		0.0585	U	0.0585	0.368
Pentachlorophenol		0.294	U	0.294	0.740
Phenanthrene		0.0448	J	0.0375	0.0740
Phenol		0.224	U	0.224	0.368
Pyrene		0.0375	U	0.0375	0.0740
Pyridine		0.220	U	0.220	0.740
1,2,4-Trichlorobenzene		0.200	U	0.200	0.368
2,4,5-Trichlorophenol		0.241	U	0.241	0.368
2,4,6-Trichlorophenol		0.212	U	0.212	0.368

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	77		29 - 120
2-Fluorophenol (Surr)	67		10 - 120
Nitrobenzene-d5 (Surr)	94		27 - 120
Phenol-d5 (Surr)	79		10 - 120
Terphenyl-d14 (Surr)	86		13 - 120
2,4,6-Tribromophenol (Surr)	66		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: TP-312-6-7

Lab Sample ID: 490-116812-5 Date Sampled: 11/23/2016 1015
Client Matrix: Solid % Moisture: 18.7 Date Received: 11/28/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-391351	Instrument ID:	HP83
Prep Method:	3550C	Prep Batch:	490-390996	Lab File ID:	120216-016.D
Dilution:	1.0			Initial Weight/Volume:	30.07 g
Analysis Date:	12/02/2016 1722			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.335		0.0393	0.0822
Acenaphthylene		0.0356	U	0.0356	0.0822
Aniline		0.311	U	0.311	0.822
Anthracene		0.0410	J	0.0356	0.0822
Benzidine		0.250	U *	0.250	0.409
Benzo(a)anthracene		0.0418	J	0.0368	0.0822
Benzo(a)pyrene		0.0331	U	0.0331	0.0822
Benzo(b)fluoranthene		0.0344	U	0.0344	0.0822
Benzo(g,h,i)perylene		0.0552	J	0.0405	0.0822
Benzoic acid		0.0736	U	0.0736	0.409
Benzo(k)fluoranthene		0.0331	U	0.0331	0.0822
Benzyl alcohol		0.238	U	0.238	0.409
Bis(2-chloroethoxy)methane		0.245	U	0.245	0.409
Bis(2-chloroethyl)ether		0.261	U	0.261	0.409
bis (2-chloroisopropyl) ether		0.243	U	0.243	0.409
Bis(2-ethylhexyl)phthalate		0.254	U	0.254	0.409
4-Bromophenyl phenyl ether		0.252	U	0.252	0.409
Butyl benzyl phthalate		0.264	U	0.264	0.409
Carbazole		0.254	U	0.254	0.409
4-Chloroaniline		0.279	U	0.279	0.409
4-Chloro-3-methylphenol		0.206	U	0.206	0.409
2-Chloronaphthalene		0.257	U	0.257	0.409
2-Chlorophenol		0.234	U	0.234	0.409
4-Chlorophenyl phenyl ether		0.247	U	0.247	0.409
Chrysene		0.0550	J	0.0454	0.0822
Dibenzo(a,h)anthracene		0.0393	U	0.0393	0.0822
Dibenzofuran		0.258	U	0.258	0.409
1,2-Dichlorobenzene		0.233	U	0.233	0.409
1,3-Dichlorobenzene		0.233	U	0.233	0.409
1,4-Dichlorobenzene		0.241	U	0.241	0.409
3,3'-Dichlorobenzidine		0.250	U *	0.250	0.822
2,4-Dichlorophenol		0.215	U	0.215	0.409
Diethyl phthalate		0.260	U	0.260	0.409
2,4-Dimethylphenol		0.411	U	0.411	0.822
Dimethyl phthalate		0.254	U	0.254	0.409
Di-n-butyl phthalate		0.259	U	0.259	0.409
4,6-Dinitro-o-cresol		0.281	U	0.281	0.409
2,4-Dinitrophenol		0.308	U	0.308	0.409
2,4-Dinitrotoluene		0.255	U	0.255	0.409
2,6-Dinitrotoluene		0.274	U	0.274	0.409
Di-n-octyl phthalate		0.218	U	0.218	0.409
1,2-Diphenylhydrazine (as Azobenzene)		0.287	U	0.287	0.409
Fluoranthene		0.0429	J	0.0417	0.0822
Fluorene		0.259		0.0356	0.0822
Hexachlorobenzene		0.307	U	0.307	0.409
Hexachlorobutadiene		0.205	U	0.205	0.409

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: TP-312-6-7

Lab Sample ID: 490-116812-5 Date Sampled: 11/23/2016 1015
Client Matrix: Solid % Moisture: 18.7 Date Received: 11/28/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-391351	Instrument ID:	HP83
Prep Method:	3550C	Prep Batch:	490-390996	Lab File ID:	120216-016.D
Dilution:	1.0			Initial Weight/Volume:	30.07 g
Analysis Date:	12/02/2016 1722			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.184	U	0.184	0.409
Hexachloroethane		0.222	U	0.222	0.409
Ideno(1,2,3-cd)pyrene		0.0356	U	0.0356	0.0822
Isophorone		0.231	U	0.231	0.409
1-Methylnaphthalene		0.0344	U	0.0344	0.0822
2-Methylnaphthalene		0.0319	U	0.0319	0.0822
Naphthalene		0.0356	U	0.0356	0.0822
2-Nitroaniline		0.254	U	0.254	0.409
3-Nitroaniline		0.282	U	0.282	0.822
4-Nitroaniline		0.292	U	0.292	0.822
Nitrobenzene		0.247	U	0.247	0.409
2-Nitrophenol		0.298	U	0.298	0.409
4-Nitrophenol		0.469	U	0.469	0.822
N-Nitrosodimethylamine		0.0245	U	0.0245	0.409
N-Nitrosodi-n-propylamine		0.238	U	0.238	0.409
N-Nitrosodiphenylamine		0.0650	U	0.0650	0.409
Pentachlorophenol		0.326	U	0.326	0.822
Phenanthrene		0.283		0.0417	0.0822
Phenol		0.249	U	0.249	0.409
Pyrene		0.149		0.0417	0.0822
Pyridine		0.244	U	0.244	0.822
1,2,4-Trichlorobenzene		0.222	U	0.222	0.409
2,4,5-Trichlorophenol		0.268	U	0.268	0.409
2,4,6-Trichlorophenol		0.236	U	0.236	0.409

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	72		29 - 120
2-Fluorophenol (Surr)	59		10 - 120
Nitrobenzene-d5 (Surr)	85		27 - 120
Phenol-d5 (Surr)	73		10 - 120
Terphenyl-d14 (Surr)	79		13 - 120
2,4,6-Tribromophenol (Surr)	60		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END-438

Lab Sample ID: 490-116812-6 Date Sampled: 11/23/2016 0815
Client Matrix: Solid % Moisture: 12.3 Date Received: 11/28/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-391351	Instrument ID:	HP83
Prep Method:	3550C	Prep Batch:	490-390996	Lab File ID:	120216-017.D
Dilution:	1.0			Initial Weight/Volume:	30.83 g
Analysis Date:	12/02/2016 1741			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0355	U	0.0355	0.0744
Acenaphthylene		0.0322	U	0.0322	0.0744
Aniline		0.281	U	0.281	0.744
Anthracene		0.0322	U	0.0322	0.0744
Benzidine		0.226	U *	0.226	0.370
Benzo(a)anthracene		0.0461	J	0.0333	0.0744
Benzo(a)pyrene		0.0482	J	0.0300	0.0744
Benzo(b)fluoranthene		0.0570	J	0.0311	0.0744
Benzo(g,h,i)perylene		0.0554	J	0.0366	0.0744
Benzoic acid		0.0666	U	0.0666	0.370
Benzo(k)fluoranthene		0.0300	U	0.0300	0.0744
Benzyl alcohol		0.215	U	0.215	0.370
Bis(2-chloroethoxy)methane		0.222	U	0.222	0.370
Bis(2-chloroethyl)ether		0.236	U	0.236	0.370
bis (2-chloroisopropyl) ether		0.220	U	0.220	0.370
Bis(2-ethylhexyl)phthalate		0.230	U	0.230	0.370
4-Bromophenyl phenyl ether		0.228	U	0.228	0.370
Butyl benzyl phthalate		0.239	U	0.239	0.370
Carbazole		0.230	U	0.230	0.370
4-Chloroaniline		0.252	U	0.252	0.370
4-Chloro-3-methylphenol		0.186	U	0.186	0.370
2-Chloronaphthalene		0.232	U	0.232	0.370
2-Chlorophenol		0.212	U	0.212	0.370
4-Chlorophenyl phenyl ether		0.223	U	0.223	0.370
Chrysene		0.0451	J	0.0411	0.0744
Dibenzo(a,h)anthracene		0.0355	U	0.0355	0.0744
Dibenzofuran		0.233	U	0.233	0.370
1,2-Dichlorobenzene		0.211	U	0.211	0.370
1,3-Dichlorobenzene		0.211	U	0.211	0.370
1,4-Dichlorobenzene		0.218	U	0.218	0.370
3,3'-Dichlorobenzidine		0.226	U *	0.226	0.744
2,4-Dichlorophenol		0.194	U	0.194	0.370
Diethyl phthalate		0.235	U	0.235	0.370
2,4-Dimethylphenol		0.372	U	0.372	0.744
Dimethyl phthalate		0.230	U	0.230	0.370
Di-n-butyl phthalate		0.234	U	0.234	0.370
4,6-Dinitro-o-cresol		0.254	U	0.254	0.370
2,4-Dinitrophenol		0.279	U	0.279	0.370
2,4-Dinitrotoluene		0.231	U	0.231	0.370
2,6-Dinitrotoluene		0.247	U	0.247	0.370
Di-n-octyl phthalate		0.198	U	0.198	0.370
1,2-Diphenylhydrazine (as Azobenzene)		0.260	U	0.260	0.370
Fluoranthene		0.107		0.0377	0.0744
Fluorene		0.0322	U	0.0322	0.0744
Hexachlorobenzene		0.277	U	0.277	0.370
Hexachlorobutadiene		0.185	U	0.185	0.370

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END-438

Lab Sample ID: 490-116812-6 Date Sampled: 11/23/2016 0815
Client Matrix: Solid % Moisture: 12.3 Date Received: 11/28/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-391351	Instrument ID:	HP83
Prep Method:	3550C	Prep Batch:	490-390996	Lab File ID:	120216-017.D
Dilution:	1.0			Initial Weight/Volume:	30.83 g
Analysis Date:	12/02/2016 1741			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.166	U	0.166	0.370
Hexachloroethane		0.201	U	0.201	0.370
Ideno(1,2,3-cd)pyrene		0.0322	U	0.0322	0.0744
Isophorone		0.209	U	0.209	0.370
1-Methylnaphthalene		0.0311	U	0.0311	0.0744
2-Methylnaphthalene		0.0289	U	0.0289	0.0744
Naphthalene		0.0322	U	0.0322	0.0744
2-Nitroaniline		0.230	U	0.230	0.370
3-Nitroaniline		0.255	U	0.255	0.744
4-Nitroaniline		0.264	U	0.264	0.744
Nitrobenzene		0.223	U	0.223	0.370
2-Nitrophenol		0.270	U	0.270	0.370
4-Nitrophenol		0.424	U	0.424	0.744
N-Nitrosodimethylamine		0.0222	U	0.0222	0.370
N-Nitrosodi-n-propylamine		0.215	U	0.215	0.370
N-Nitrosodiphenylamine		0.0588	U	0.0588	0.370
Pentachlorophenol		0.295	U	0.295	0.744
Phenanthrene		0.0881		0.0377	0.0744
Phenol		0.225	U	0.225	0.370
Pyrene		0.0991		0.0377	0.0744
Pyridine		0.221	U	0.221	0.744
1,2,4-Trichlorobenzene		0.201	U	0.201	0.370
2,4,5-Trichlorophenol		0.242	U	0.242	0.370
2,4,6-Trichlorophenol		0.213	U	0.213	0.370

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	62		29 - 120
2-Fluorophenol (Surr)	53		10 - 120
Nitrobenzene-d5 (Surr)	73		27 - 120
Phenol-d5 (Surr)	66		10 - 120
Terphenyl-d14 (Surr)	81		13 - 120
2,4,6-Tribromophenol (Surr)	57		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: TP-311-6-7

Lab Sample ID: 490-116812-7 Date Sampled: 11/23/2016 1000
Client Matrix: Solid % Moisture: 27.0 Date Received: 11/28/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-391351	Instrument ID:	HP83
Prep Method:	3550C	Prep Batch:	490-390996	Lab File ID:	120216-018.D
Dilution:	1.0			Initial Weight/Volume:	30.92 g
Analysis Date:	12/02/2016 1800			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0868	J	0.0425	0.0891
Acenaphthylene		0.0386	U	0.0386	0.0891
Aniline		0.336	U	0.336	0.891
Anthracene		0.0700	J	0.0386	0.0891
Benzidine		0.271	U *	0.271	0.443
Benzo(a)anthracene		0.0676	J	0.0399	0.0891
Benzo(a)pyrene		0.104		0.0359	0.0891
Benzo(b)fluoranthene		0.0822	J	0.0372	0.0891
Benzo(g,h,i)perylene		0.196		0.0439	0.0891
Benzoic acid		0.143	J	0.0798	0.443
Benzo(k)fluoranthene		0.0359	U	0.0359	0.0891
Benzyl alcohol		0.258	U	0.258	0.443
Bis(2-chloroethoxy)methane		0.266	U	0.266	0.443
Bis(2-chloroethyl)ether		0.283	U	0.283	0.443
bis (2-chloroisopropyl) ether		0.263	U	0.263	0.443
Bis(2-ethylhexyl)phthalate		0.275	U	0.275	0.443
4-Bromophenyl phenyl ether		0.273	U	0.273	0.443
Butyl benzyl phthalate		0.286	U	0.286	0.443
Carbazole		0.275	U	0.275	0.443
4-Chloroaniline		0.302	U	0.302	0.443
4-Chloro-3-methylphenol		0.223	U	0.223	0.443
2-Chloronaphthalene		0.278	U	0.278	0.443
2-Chlorophenol		0.254	U	0.254	0.443
4-Chlorophenyl phenyl ether		0.267	U	0.267	0.443
Chrysene		0.0869	J	0.0492	0.0891
Dibenzo(a,h)anthracene		0.0568	J	0.0425	0.0891
Dibenzofuran		0.279	U	0.279	0.443
1,2-Dichlorobenzene		0.253	U	0.253	0.443
1,3-Dichlorobenzene		0.253	U	0.253	0.443
1,4-Dichlorobenzene		0.261	U	0.261	0.443
3,3'-Dichlorobenzidine		0.271	U *	0.271	0.891
2,4-Dichlorophenol		0.233	U	0.233	0.443
Diethyl phthalate		0.282	U	0.282	0.443
2,4-Dimethylphenol		0.445	U	0.445	0.891
Dimethyl phthalate		0.275	U	0.275	0.443
Di-n-butyl phthalate		0.280	U	0.280	0.443
4,6-Dinitro-o-cresol		0.304	U	0.304	0.443
2,4-Dinitrophenol		0.334	U	0.334	0.443
2,4-Dinitrotoluene		0.277	U	0.277	0.443
2,6-Dinitrotoluene		0.296	U	0.296	0.443
Di-n-octyl phthalate		0.237	U	0.237	0.443
1,2-Diphenylhydrazine (as Azobenzene)		0.311	U	0.311	0.443
Fluoranthene		0.258		0.0452	0.0891
Fluorene		0.0708	J	0.0386	0.0891
Hexachlorobenzene		0.332	U	0.332	0.443
Hexachlorobutadiene		0.222	U	0.222	0.443

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: TP-311-6-7

Lab Sample ID: 490-116812-7 Date Sampled: 11/23/2016 1000
Client Matrix: Solid % Moisture: 27.0 Date Received: 11/28/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-391351	Instrument ID:	HP83
Prep Method:	3550C	Prep Batch:	490-390996	Lab File ID:	120216-018.D
Dilution:	1.0			Initial Weight/Volume:	30.92 g
Analysis Date:	12/02/2016 1800			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.199	U	0.199	0.443
Hexachloroethane		0.241	U	0.241	0.443
Ideno(1,2,3-cd)pyrene		0.0573	J	0.0386	0.0891
Isophorone		0.250	U	0.250	0.443
1-Methylnaphthalene		0.0372	U	0.0372	0.0891
2-Methylnaphthalene		0.0346	U	0.0346	0.0891
Naphthalene		0.0386	U	0.0386	0.0891
2-Nitroaniline		0.275	U	0.275	0.443
3-Nitroaniline		0.306	U	0.306	0.891
4-Nitroaniline		0.316	U	0.316	0.891
Nitrobenzene		0.267	U	0.267	0.443
2-Nitrophenol		0.323	U	0.323	0.443
4-Nitrophenol		0.508	U	0.508	0.891
N-Nitrosodimethylamine		0.0266	U	0.0266	0.443
N-Nitrosodi-n-propylamine		0.258	U	0.258	0.443
N-Nitrosodiphenylamine		0.0705	U	0.0705	0.443
Pentachlorophenol		0.354	U	0.354	0.891
Phenanthrene		0.185		0.0452	0.0891
Phenol		0.270	U	0.270	0.443
Pyrene		0.256		0.0452	0.0891
Pyridine		0.265	U	0.265	0.891
1,2,4-Trichlorobenzene		0.241	U	0.241	0.443
2,4,5-Trichlorophenol		0.290	U	0.290	0.443
2,4,6-Trichlorophenol		0.255	U	0.255	0.443

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	70		29 - 120
2-Fluorophenol (Surr)	57		10 - 120
Nitrobenzene-d5 (Surr)	83		27 - 120
Phenol-d5 (Surr)	71		10 - 120
Terphenyl-d14 (Surr)	77		13 - 120
2,4,6-Tribromophenol (Surr)	59		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: TP-310-6-7

Lab Sample ID: 490-116812-8 Date Sampled: 11/23/2016 0930
Client Matrix: Solid % Moisture: 13.6 Date Received: 11/28/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-391351	Instrument ID:	HP83
Prep Method:	3550C	Prep Batch:	490-390996	Lab File ID:	120216-019.D
Dilution:	1.0			Initial Weight/Volume:	30.41 g
Analysis Date:	12/02/2016 1819			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0689	J	0.0365	0.0765
Acenaphthylene		0.0331	U	0.0331	0.0765
Aniline		0.289	U	0.289	0.765
Anthracene		0.0848		0.0331	0.0765
Benzidine		0.233	U *	0.233	0.380
Benzo(a)anthracene		0.0342	U	0.0342	0.0765
Benzo(a)pyrene		0.0308	U	0.0308	0.0765
Benzo(b)fluoranthene		0.0320	U	0.0320	0.0765
Benzo(g,h,i)perylene		0.0377	U	0.0377	0.0765
Benzoic acid		0.0685	U	0.0685	0.380
Benzo(k)fluoranthene		0.0308	U	0.0308	0.0765
Benzyl alcohol		0.221	U	0.221	0.380
Bis(2-chloroethoxy)methane		0.228	U	0.228	0.380
Bis(2-chloroethyl)ether		0.243	U	0.243	0.380
bis (2-chloroisopropyl) ether		0.226	U	0.226	0.380
Bis(2-ethylhexyl)phthalate		0.236	U	0.236	0.380
4-Bromophenyl phenyl ether		0.234	U	0.234	0.380
Butyl benzyl phthalate		0.245	U	0.245	0.380
Carbazole		0.236	U	0.236	0.380
4-Chloroaniline		0.259	U	0.259	0.380
4-Chloro-3-methylphenol		0.192	U	0.192	0.380
2-Chloronaphthalene		0.239	U	0.239	0.380
2-Chlorophenol		0.218	U	0.218	0.380
4-Chlorophenyl phenyl ether		0.229	U	0.229	0.380
Chrysene		0.0422	U	0.0422	0.0765
Dibenzo(a,h)anthracene		0.0365	U	0.0365	0.0765
Dibenzofuran		0.240	U	0.240	0.380
1,2-Dichlorobenzene		0.217	U	0.217	0.380
1,3-Dichlorobenzene		0.217	U	0.217	0.380
1,4-Dichlorobenzene		0.224	U	0.224	0.380
3,3'-Dichlorobenzidine		0.233	U *	0.233	0.765
2,4-Dichlorophenol		0.200	U	0.200	0.380
Diethyl phthalate		0.242	U	0.242	0.380
2,4-Dimethylphenol		0.382	U	0.382	0.765
Dimethyl phthalate		0.236	U	0.236	0.380
Di-n-butyl phthalate		0.241	U	0.241	0.380
4,6-Dinitro-o-cresol		0.261	U	0.261	0.380
2,4-Dinitrophenol		0.286	U	0.286	0.380
2,4-Dinitrotoluene		0.237	U	0.237	0.380
2,6-Dinitrotoluene		0.254	U	0.254	0.380
Di-n-octyl phthalate		0.203	U	0.203	0.380
1,2-Diphenylhydrazine (as Azobenzene)		0.267	U	0.267	0.380
Fluoranthene		0.0388	U	0.0388	0.0765
Fluorene		0.132		0.0331	0.0765
Hexachlorobenzene		0.285	U	0.285	0.380
Hexachlorobutadiene		0.191	U	0.191	0.380

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: TP-310-6-7

Lab Sample ID: 490-116812-8 Date Sampled: 11/23/2016 0930
Client Matrix: Solid % Moisture: 13.6 Date Received: 11/28/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-391351	Instrument ID:	HP83
Prep Method:	3550C	Prep Batch:	490-390996	Lab File ID:	120216-019.D
Dilution:	1.0			Initial Weight/Volume:	30.41 g
Analysis Date:	12/02/2016 1819			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.171	U	0.171	0.380
Hexachloroethane		0.207	U	0.207	0.380
Ideno(1,2,3-cd)pyrene		0.0331	U	0.0331	0.0765
1-Methylnaphthalene		0.943		0.0320	0.0765
2-Methylnaphthalene		1.13		0.0297	0.0765
Naphthalene		0.119		0.0331	0.0765
2-Nitroaniline		0.236	U	0.236	0.380
3-Nitroaniline		0.262	U	0.262	0.765
4-Nitroaniline		0.272	U	0.272	0.765
Nitrobenzene		0.229	U	0.229	0.380
2-Nitrophenol		0.277	U	0.277	0.380
4-Nitrophenol		0.436	U	0.436	0.765
N-Nitrosodimethylamine		0.0228	U	0.0228	0.380
N-Nitrosodi-n-propylamine		0.221	U	0.221	0.380
N-Nitrosodiphenylamine		0.0605	U	0.0605	0.380
Pentachlorophenol		0.304	U	0.304	0.765
Phenanthrene		0.221		0.0388	0.0765
Phenol		0.232	U	0.232	0.380
Pyrene		0.0388	U	0.0388	0.0765
Pyridine		0.227	U	0.227	0.765
1,2,4-Trichlorobenzene		0.207	U	0.207	0.380
2,4,5-Trichlorophenol		0.249	U	0.249	0.380
2,4,6-Trichlorophenol		0.219	U	0.219	0.380

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	82		29 - 120
2-Fluorophenol (Surr)	68		10 - 120
Nitrobenzene-d5 (Surr)	92		27 - 120
Phenol-d5 (Surr)	80		10 - 120
Terphenyl-d14 (Surr)	89		13 - 120
2,4,6-Tribromophenol (Surr)	74		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: TP-310-6-7

Lab Sample ID: 490-116812-8 Date Sampled: 11/23/2016 0930
Client Matrix: Solid % Moisture: 13.6 Date Received: 11/28/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-391814	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-390996	Lab File ID:	120516-14.D
Dilution:	1.0			Initial Weight/Volume:	30.41 g
Analysis Date:	12/05/2016 1839			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Isophorone		0.215	U	0.215	0.380

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: TP-309-6-7

Lab Sample ID: 490-116812-9 Date Sampled: 11/23/2016 0900
Client Matrix: Solid % Moisture: 11.6 Date Received: 11/28/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-391351	Instrument ID:	HP83
Prep Method:	3550C	Prep Batch:	490-390996	Lab File ID:	120216-020.D
Dilution:	1.0			Initial Weight/Volume:	30.09 g
Analysis Date:	12/02/2016 1839			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0361	U	0.0361	0.0756
Acenaphthylene		0.0327	U	0.0327	0.0756
Aniline		0.285	U	0.285	0.756
Anthracene		0.0327	U	0.0327	0.0756
Benzidine		0.230	U *	0.230	0.376
Benzo(a)anthracene		0.0338	U	0.0338	0.0756
Benzo(a)pyrene		0.0790		0.0305	0.0756
Benzo(b)fluoranthene		0.0407	J	0.0316	0.0756
Benzo(g,h,i)perylene		0.270		0.0372	0.0756
Benzoic acid		0.125	J	0.0677	0.376
Benzo(k)fluoranthene		0.0305	U	0.0305	0.0756
Benzyl alcohol		0.219	U	0.219	0.376
Bis(2-chloroethoxy)methane		0.226	U	0.226	0.376
Bis(2-chloroethyl)ether		0.240	U	0.240	0.376
bis (2-chloroisopropyl) ether		0.223	U	0.223	0.376
Bis(2-ethylhexyl)phthalate		0.234	U	0.234	0.376
4-Bromophenyl phenyl ether		0.231	U	0.231	0.376
Butyl benzyl phthalate		0.243	U	0.243	0.376
Carbazole		0.234	U	0.234	0.376
4-Chloroaniline		0.256	U	0.256	0.376
4-Chloro-3-methylphenol		0.190	U	0.190	0.376
2-Chloronaphthalene		0.236	U	0.236	0.376
2-Chlorophenol		0.216	U	0.216	0.376
4-Chlorophenyl phenyl ether		0.227	U	0.227	0.376
Chrysene		0.0450	J	0.0417	0.0756
Dibenzo(a,h)anthracene		0.0727	J	0.0361	0.0756
Dibenzofuran		0.237	U	0.237	0.376
1,2-Dichlorobenzene		0.214	U	0.214	0.376
1,3-Dichlorobenzene		0.214	U	0.214	0.376
1,4-Dichlorobenzene		0.221	U	0.221	0.376
3,3'-Dichlorobenzidine		0.230	U *	0.230	0.756
2,4-Dichlorophenol		0.197	U	0.197	0.376
Diethyl phthalate		0.239	U	0.239	0.376
2,4-Dimethylphenol		0.378	U	0.378	0.756
Dimethyl phthalate		0.234	U	0.234	0.376
Di-n-butyl phthalate		0.238	U	0.238	0.376
4,6-Dinitro-o-cresol		0.258	U	0.258	0.376
2,4-Dinitrophenol		0.283	U	0.283	0.376
2,4-Dinitrotoluene		0.235	U	0.235	0.376
2,6-Dinitrotoluene		0.252	U	0.252	0.376
Di-n-octyl phthalate		0.201	U	0.201	0.376
1,2-Diphenylhydrazine (as Azobenzene)		0.264	U	0.264	0.376
Fluoranthene		0.0384	U	0.0384	0.0756
Fluorene		0.0327	U	0.0327	0.0756
Hexachlorobenzene		0.282	U	0.282	0.376
Hexachlorobutadiene		0.188	U	0.188	0.376

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: TP-309-6-7

Lab Sample ID: 490-116812-9 Date Sampled: 11/23/2016 0900
Client Matrix: Solid % Moisture: 11.6 Date Received: 11/28/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-391351	Instrument ID:	HP83
Prep Method:	3550C	Prep Batch:	490-390996	Lab File ID:	120216-020.D
Dilution:	1.0			Initial Weight/Volume:	30.09 g
Analysis Date:	12/02/2016 1839			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.169	U	0.169	0.376
Hexachloroethane		0.204	U	0.204	0.376
Ideno(1,2,3-cd)pyrene		0.0669	J	0.0327	0.0756
Isophorone		0.212	U	0.212	0.376
1-Methylnaphthalene		0.0316	U	0.0316	0.0756
2-Methylnaphthalene		0.0293	U	0.0293	0.0756
Naphthalene		0.0327	U	0.0327	0.0756
2-Nitroaniline		0.234	U	0.234	0.376
3-Nitroaniline		0.260	U	0.260	0.756
4-Nitroaniline		0.269	U	0.269	0.756
Nitrobenzene		0.227	U	0.227	0.376
2-Nitrophenol		0.274	U	0.274	0.376
4-Nitrophenol		0.431	U	0.431	0.756
N-Nitrosodimethylamine		0.0226	U	0.0226	0.376
N-Nitrosodi-n-propylamine		0.219	U	0.219	0.376
N-Nitrosodiphenylamine		0.0598	U	0.0598	0.376
Pentachlorophenol		0.300	U	0.300	0.756
Phenanthrene		0.0384	U	0.0384	0.0756
Phenol		0.229	U	0.229	0.376
Pyrene		0.0456	J	0.0384	0.0756
Pyridine		0.225	U	0.225	0.756
1,2,4-Trichlorobenzene		0.204	U	0.204	0.376
2,4,5-Trichlorophenol		0.246	U	0.246	0.376
2,4,6-Trichlorophenol		0.217	U	0.217	0.376

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	58		29 - 120
2-Fluorophenol (Surr)	40		10 - 120
Nitrobenzene-d5 (Surr)	66		27 - 120
Phenol-d5 (Surr)	53		10 - 120
Terphenyl-d14 (Surr)	59		13 - 120
2,4,6-Tribromophenol (Surr)	45		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END-441

Lab Sample ID: 490-116812-10 Date Sampled: 11/23/2016 0945
Client Matrix: Solid % Moisture: 10.5 Date Received: 11/28/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-391351	Instrument ID:	HP83
Prep Method:	3550C	Prep Batch:	490-390996	Lab File ID:	120216-021.D
Dilution:	1.0			Initial Weight/Volume:	30.25 g
Analysis Date:	12/02/2016 1858			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0355	U	0.0355	0.0743
Acenaphthylene		0.0321	U	0.0321	0.0743
Aniline		0.280	U	0.280	0.743
Anthracene		0.0321	U	0.0321	0.0743
Benzidine		0.226	U *	0.226	0.369
Benzo(a)anthracene		0.0333	U	0.0333	0.0743
Benzo(a)pyrene		0.0299	U	0.0299	0.0743
Benzo(b)fluoranthene		0.0310	U	0.0310	0.0743
Benzo(g,h,i)perylene		0.0366	U	0.0366	0.0743
Benzoic acid		0.196	J	0.0665	0.369
Benzo(k)fluoranthene		0.0299	U	0.0299	0.0743
Benzyl alcohol		0.215	U	0.215	0.369
Bis(2-chloroethoxy)methane		0.222	U	0.222	0.369
Bis(2-chloroethyl)ether		0.236	U	0.236	0.369
bis (2-chloroisopropyl) ether		0.219	U	0.219	0.369
Bis(2-ethylhexyl)phthalate		0.229	U	0.229	0.369
4-Bromophenyl phenyl ether		0.227	U	0.227	0.369
Butyl benzyl phthalate		0.238	U	0.238	0.369
Carbazole		0.229	U	0.229	0.369
4-Chloroaniline		0.252	U	0.252	0.369
4-Chloro-3-methylphenol		0.186	U	0.186	0.369
2-Chloronaphthalene		0.232	U	0.232	0.369
2-Chlorophenol		0.212	U	0.212	0.369
4-Chlorophenyl phenyl ether		0.223	U	0.223	0.369
Chrysene		0.0475	J	0.0410	0.0743
Dibenzo(a,h)anthracene		0.0355	U	0.0355	0.0743
Dibenzofuran		0.233	U	0.233	0.369
1,2-Dichlorobenzene		0.211	U	0.211	0.369
1,3-Dichlorobenzene		0.211	U	0.211	0.369
1,4-Dichlorobenzene		0.217	U	0.217	0.369
3,3'-Dichlorobenzidine		0.226	U *	0.226	0.743
2,4-Dichlorophenol		0.194	U	0.194	0.369
Diethyl phthalate		0.235	U	0.235	0.369
2,4-Dimethylphenol		0.371	U	0.371	0.743
Dimethyl phthalate		0.229	U	0.229	0.369
Di-n-butyl phthalate		0.234	U	0.234	0.369
4,6-Dinitro-o-cresol		0.254	U	0.254	0.369
2,4-Dinitrophenol		0.278	U	0.278	0.369
2,4-Dinitrotoluene		0.231	U	0.231	0.369
2,6-Dinitrotoluene		0.247	U	0.247	0.369
Di-n-octyl phthalate		0.197	U	0.197	0.369
1,2-Diphenylhydrazine (as Azobenzene)		0.259	U	0.259	0.369
Fluoranthene		0.0377	U	0.0377	0.0743
Fluorene		0.166		0.0321	0.0743
Hexachlorobenzene		0.277	U	0.277	0.369
Hexachlorobutadiene		0.185	U	0.185	0.369

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END-441

Lab Sample ID: 490-116812-10 Date Sampled: 11/23/2016 0945
Client Matrix: Solid % Moisture: 10.5 Date Received: 11/28/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-391351	Instrument ID:	HP83
Prep Method:	3550C	Prep Batch:	490-390996	Lab File ID:	120216-021.D
Dilution:	1.0			Initial Weight/Volume:	30.25 g
Analysis Date:	12/02/2016 1858			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.166	U	0.166	0.369
Hexachloroethane		0.201	U	0.201	0.369
Ideno(1,2,3-cd)pyrene		0.0321	U	0.0321	0.0743
1-Methylnaphthalene		0.380		0.0310	0.0743
2-Methylnaphthalene		0.345		0.0288	0.0743
Naphthalene		0.0321	U	0.0321	0.0743
2-Nitroaniline		0.229	U	0.229	0.369
3-Nitroaniline		0.255	U	0.255	0.743
4-Nitroaniline		0.264	U	0.264	0.743
Nitrobenzene		0.223	U	0.223	0.369
2-Nitrophenol		0.269	U	0.269	0.369
4-Nitrophenol		0.423	U	0.423	0.743
N-Nitrosodimethylamine		0.0222	U	0.0222	0.369
N-Nitrosodi-n-propylamine		0.215	U	0.215	0.369
N-Nitrosodiphenylamine		0.375		0.0587	0.369
Pentachlorophenol		0.295	U	0.295	0.743
Phenanthrene		0.236		0.0377	0.0743
Phenol		0.225	U	0.225	0.369
Pyrene		0.0638	J	0.0377	0.0743
Pyridine		0.221	U	0.221	0.743
1,2,4-Trichlorobenzene		0.201	U	0.201	0.369
2,4,5-Trichlorophenol		0.242	U	0.242	0.369
2,4,6-Trichlorophenol		0.213	U	0.213	0.369

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	75		29 - 120
2-Fluorophenol (Surr)	60		10 - 120
Nitrobenzene-d5 (Surr)	90		27 - 120
Phenol-d5 (Surr)	74		10 - 120
Terphenyl-d14 (Surr)	89		13 - 120
2,4,6-Tribromophenol (Surr)	81		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END-441

Lab Sample ID: 490-116812-10 Date Sampled: 11/23/2016 0945
Client Matrix: Solid % Moisture: 10.5 Date Received: 11/28/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-391814	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-390996	Lab File ID:	120516-15.D
Dilution:	1.0			Initial Weight/Volume:	30.25 g
Analysis Date:	12/05/2016 1857			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Isophorone		0.208	U	0.208	0.369

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END-442

Lab Sample ID: 490-116812-12 Date Sampled: 11/23/2016 0945
Client Matrix: Solid % Moisture: 9.5 Date Received: 11/28/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-391351	Instrument ID:	HP83
Prep Method:	3550C	Prep Batch:	490-390996	Lab File ID:	120216-022.D
Dilution:	5.0			Initial Weight/Volume:	30.72 g
Analysis Date:	12/02/2016 1917			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.543		0.173	0.362
Acenaphthylene		0.156	U	0.156	0.362
Aniline		1.37	U	1.37	3.62
Anthracene		0.750		0.156	0.362
Benzidine		1.10	U *	1.10	1.80
Benzo(a)anthracene		0.162	U	0.162	0.362
Benzo(a)pyrene		0.146	U	0.146	0.362
Benzo(b)fluoranthene		0.151	U	0.151	0.362
Benzo(g,h,i)perylene		0.178	U	0.178	0.362
Benzoic acid		0.760	J	0.324	1.80
Benzo(k)fluoranthene		0.146	U	0.146	0.362
Benzyl alcohol		1.05	U	1.05	1.80
Bis(2-chloroethoxy)methane		1.08	U	1.08	1.80
Bis(2-chloroethyl)ether		1.15	U	1.15	1.80
bis (2-chloroisopropyl) ether		1.07	U	1.07	1.80
Bis(2-ethylhexyl)phthalate		1.12	U	1.12	1.80
4-Bromophenyl phenyl ether		1.11	U	1.11	1.80
Butyl benzyl phthalate		1.16	U	1.16	1.80
Carbazole		1.12	U	1.12	1.80
4-Chloroaniline		1.22	U	1.22	1.80
4-Chloro-3-methylphenol		0.907	U	0.907	1.80
2-Chloronaphthalene		1.13	U	1.13	1.80
2-Chlorophenol		1.03	U	1.03	1.80
4-Chlorophenyl phenyl ether		1.08	U	1.08	1.80
Chrysene		0.200	U	0.200	0.362
Dibenzo(a,h)anthracene		0.173	U	0.173	0.362
Dibenzofuran		1.13	U	1.13	1.80
1,2-Dichlorobenzene		1.03	U	1.03	1.80
1,3-Dichlorobenzene		1.03	U	1.03	1.80
1,4-Dichlorobenzene		1.06	U	1.06	1.80
3,3'-Dichlorobenzidine		1.10	U *	1.10	3.62
2,4-Dichlorophenol		0.944	U	0.944	1.80
Diethyl phthalate		1.14	U	1.14	1.80
2,4-Dimethylphenol		1.81	U	1.81	3.62
Dimethyl phthalate		1.12	U	1.12	1.80
Di-n-butyl phthalate		1.14	U	1.14	1.80
4,6-Dinitro-o-cresol		1.24	U	1.24	1.80
2,4-Dinitrophenol		1.35	U	1.35	1.80
2,4-Dinitrotoluene		1.12	U	1.12	1.80
2,6-Dinitrotoluene		1.20	U	1.20	1.80
Di-n-octyl phthalate		0.960	U	0.960	1.80
1,2-Diphenylhydrazine (as Azobenzene)		1.26	U	1.26	1.80
Fluoranthene		0.183	U	0.183	0.362
Fluorene		1.22		0.156	0.362
Hexachlorobenzene		1.35	U	1.35	1.80
Hexachlorobutadiene		0.901	U	0.901	1.80

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END-442

Lab Sample ID: 490-116812-12 Date Sampled: 11/23/2016 0945
Client Matrix: Solid % Moisture: 9.5 Date Received: 11/28/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-391351	Instrument ID:	HP83
Prep Method:	3550C	Prep Batch:	490-390996	Lab File ID:	120216-022.D
Dilution:	5.0			Initial Weight/Volume:	30.72 g
Analysis Date:	12/02/2016 1917			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.809	U	0.809	1.80
Hexachloroethane		0.977	U	0.977	1.80
Ideno(1,2,3-cd)pyrene		0.156	U	0.156	0.362
Isophorone		1.01	U	1.01	1.80
1-Methylnaphthalene		1.71		0.151	0.362
2-Methylnaphthalene		0.140	U	0.140	0.362
Naphthalene		0.156	U	0.156	0.362
2-Nitroaniline		1.12	U	1.12	1.80
3-Nitroaniline		1.24	U	1.24	3.62
4-Nitroaniline		1.28	U	1.28	3.62
Nitrobenzene		1.08	U	1.08	1.80
2-Nitrophenol		1.31	U	1.31	1.80
4-Nitrophenol		2.06	U	2.06	3.62
N-Nitrosodimethylamine		0.108	U	0.108	1.80
N-Nitrosodi-n-propylamine		1.05	U	1.05	1.80
N-Nitrosodiphenylamine		0.286	U	0.286	1.80
Pentachlorophenol		1.44	U	1.44	3.62
Phenanthrene		2.25		0.183	0.362
Phenol		1.10	U	1.10	1.80
Pyrene		0.183	U	0.183	0.362
Pyridine		1.07	U	1.07	3.62
1,2,4-Trichlorobenzene		0.977	U	0.977	1.80
2,4,5-Trichlorophenol		1.18	U	1.18	1.80
2,4,6-Trichlorophenol		1.04	U	1.04	1.80

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	88		29 - 120
2-Fluorophenol (Surr)	72		10 - 120
Nitrobenzene-d5 (Surr)	98		27 - 120
Phenol-d5 (Surr)	91		10 - 120
Terphenyl-d14 (Surr)	99		13 - 120
2,4,6-Tribromophenol (Surr)	76		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END-437

Lab Sample ID: 490-116812-13 Date Sampled: 11/23/2016 0815
Client Matrix: Solid % Moisture: 13.3 Date Received: 11/28/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-391291	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-391021	Lab File ID:	120216-31.D
Dilution:	5.0			Initial Weight/Volume:	30.56 g
Analysis Date:	12/02/2016 1954			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1044			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.181	U	0.181	0.380
Acenaphthylene		0.164	U	0.164	0.380
Aniline		1.43	U	1.43	3.80
Anthracene		0.164	U	0.164	0.380
Benzidine		1.16	U	1.16	1.89
Benzo(a)anthracene		0.170	U	0.170	0.380
Benzo(a)pyrene		0.153	U	0.153	0.380
Benzo(b)fluoranthene		0.159	U	0.159	0.380
Benzo(g,h,i)perylene		0.187	U	0.187	0.380
Benzoic acid		0.340	U	0.340	1.89
Benzo(k)fluoranthene		0.153	U	0.153	0.380
Benzyl alcohol		1.10	U	1.10	1.89
Bis(2-chloroethoxy)methane		1.13	U	1.13	1.89
Bis(2-chloroethyl)ether		1.21	U	1.21	1.89
bis (2-chloroisopropyl) ether		1.12	U	1.12	1.89
Bis(2-ethylhexyl)phthalate		1.17	U	1.17	1.89
4-Bromophenyl phenyl ether		1.16	U	1.16	1.89
Butyl benzyl phthalate		1.22	U	1.22	1.89
Carbazole		1.17	U	1.17	1.89
4-Chloroaniline		1.29	U	1.29	1.89
4-Chloro-3-methylphenol		0.952	U	0.952	1.89
2-Chloronaphthalene		1.18	U	1.18	1.89
2-Chlorophenol		1.08	U	1.08	1.89
4-Chlorophenyl phenyl ether		1.14	U	1.14	1.89
Chrysene		0.210	U	0.210	0.380
Dibenzo(a,h)anthracene		0.181	U	0.181	0.380
Dibenzofuran		1.19	U	1.19	1.89
1,2-Dichlorobenzene		1.08	U	1.08	1.89
1,3-Dichlorobenzene		1.08	U	1.08	1.89
1,4-Dichlorobenzene		1.11	U	1.11	1.89
3,3'-Dichlorobenzidine		1.16	U	1.16	3.80
2,4-Dichlorophenol		0.991	U	0.991	1.89
Diethyl phthalate		1.20	U	1.20	1.89
2,4-Dimethylphenol		1.90	U	1.90	3.80
Dimethyl phthalate		1.17	U	1.17	1.89
Di-n-butyl phthalate		1.20	U	1.20	1.89
4,6-Dinitro-o-cresol		1.30	U	1.30	1.89
2,4-Dinitrophenol		1.42	U	1.42	1.89
2,4-Dinitrotoluene		1.18	U	1.18	1.89
2,6-Dinitrotoluene		1.26	U	1.26	1.89
Di-n-octyl phthalate		1.01	U	1.01	1.89
1,2-Diphenylhydrazine (as Azobenzene)		1.33	U	1.33	1.89
Fluoranthene		0.193	U	0.193	0.380
Fluorene		0.164	U	0.164	0.380
Hexachlorobenzene		1.42	U	1.42	1.89
Hexachlorobutadiene		0.946	U	0.946	1.89

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END-437

Lab Sample ID: 490-116812-13 Date Sampled: 11/23/2016 0815
Client Matrix: Solid % Moisture: 13.3 Date Received: 11/28/2016 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-391291	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-391021	Lab File ID:	120216-31.D
Dilution:	5.0			Initial Weight/Volume:	30.56 g
Analysis Date:	12/02/2016 1954			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1044			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.850	U	0.850	1.89
Hexachloroethane		1.03	U	1.03	1.89
Ideno(1,2,3-cd)pyrene		0.164	U	0.164	0.380
Isophorone		1.06	U	1.06	1.89
1-Methylnaphthalene		0.159	U	0.159	0.380
2-Methylnaphthalene		0.147	U	0.147	0.380
Naphthalene		0.164	U	0.164	0.380
2-Nitroaniline		1.17	U	1.17	1.89
3-Nitroaniline		1.30	U	1.30	3.80
4-Nitroaniline		1.35	U	1.35	3.80
Nitrobenzene		1.14	U	1.14	1.89
2-Nitrophenol		1.38	U	1.38	1.89
4-Nitrophenol		2.16	U	2.16	3.80
N-Nitrosodimethylamine		0.113	U	0.113	1.89
N-Nitrosodi-n-propylamine		1.10	U	1.10	1.89
N-Nitrosodiphenylamine		0.300	U	0.300	1.89
Pentachlorophenol		1.51	U	1.51	3.80
Phenanthrene		0.193	U	0.193	0.380
Phenol		1.15	U	1.15	1.89
Pyrene		0.193	U	0.193	0.380
Pyridine		1.13	U	1.13	3.80
1,2,4-Trichlorobenzene		1.03	U	1.03	1.89
2,4,5-Trichlorophenol		1.23	U	1.23	1.89
2,4,6-Trichlorophenol		1.09	U	1.09	1.89

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	81		29 - 120
2-Fluorophenol (Surr)	63		10 - 120
Nitrobenzene-d5 (Surr)	72		27 - 120
Phenol-d5 (Surr)	72		10 - 120
Terphenyl-d14 (Surr)	90		13 - 120
2,4,6-Tribromophenol (Surr)	92		10 - 120

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END 436

Lab Sample ID: 490-116812-1 Date Sampled: 11/23/2016 0800
Client Matrix: Solid % Moisture: 10.6 Date Received: 11/28/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391569	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-390982	Lab File ID:	TALS_120216-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.513 g
Analysis Date:	12/03/2016 0259			Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 0947				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6000		10.9	21.8
Antimony		1.09	U	1.09	10.9
Arsenic		7.24		1.31	2.18
Barium		23.4		1.09	2.18
Beryllium		0.305	J	0.218	1.09
Cadmium		0.480	J	0.109	1.09
Calcium		432		109	218
Chromium		6.30		0.981	1.09
Cobalt		5.43		1.09	2.18
Copper		7.57		1.20	2.18
Iron		10800		21.8	43.6
Lead		9.14		0.545	1.09
Magnesium		1510		109	218
Manganese		105		1.09	3.27
Nickel		10.1		0.654	2.18
Selenium		1.20	U	1.20	2.18
Sodium		142	U	142	218
Thallium		1.40	J	0.654	2.18
Vanadium		8.24	J	2.18	10.9
Zinc		31.7		5.45	10.9

Analysis Method:	6010C	Analysis Batch:	490-391777	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390982	Lab File ID:	TALS_120316-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.513 g
Analysis Date:	12/03/2016 2205			Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 0947				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Potassium		411		109	218
Silver		0.436	U	0.436	1.09

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-392751	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-392116	Lab File ID:	12716-5bLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.620 g
Analysis Date:	12/07/2016 1511			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1304				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0325	U	0.0325	0.108

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END 440

Lab Sample ID: 490-116812-2 Date Sampled: 11/23/2016 0830
Client Matrix: Solid % Moisture: 13.1 Date Received: 11/28/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391569	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-390982	Lab File ID:	TALS_120216-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.502 g
Analysis Date:	12/03/2016 0304			Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 0947				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7240		11.5	22.9
Antimony		1.15	U	1.15	11.5
Arsenic		7.49		1.38	2.29
Barium		49.7		1.15	2.29
Beryllium		0.435	J	0.229	1.15
Cadmium		0.733	J	0.115	1.15
Calcium		598		115	229
Chromium		7.84		1.03	1.15
Cobalt		5.32		1.15	2.29
Copper		20.3		1.26	2.29
Iron		13600		22.9	45.8
Lead		16.5		0.573	1.15
Magnesium		1710		115	229
Manganese		861		1.15	3.44
Nickel		15.8		0.688	2.29
Selenium		1.26	U	1.26	2.29
Sodium		149	U	149	229
Thallium		1.08	J	0.688	2.29
Vanadium		11.6		2.29	11.5
Zinc		78.3		5.73	11.5

Analysis Method:	6010C	Analysis Batch:	490-391777	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390982	Lab File ID:	TALS_120316-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.502 g
Analysis Date:	12/03/2016 2210			Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 0947				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Potassium		481		115	229
Silver		0.458	U	0.458	1.15

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-392751	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-392116	Lab File ID:	12716-5bLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.620 g
Analysis Date:	12/07/2016 1520			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1304				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0334	U	0.0334	0.111

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END 439

Lab Sample ID: 490-116812-3 Date Sampled: 11/23/2016 0830
Client Matrix: Solid % Moisture: 14.6 Date Received: 11/28/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391569	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-390982	Lab File ID:	TALS_120216-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.502 g
Analysis Date:	12/03/2016 0309			Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 0947				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		12000		11.7	23.3
Antimony		1.17	U	1.17	11.7
Arsenic		9.48		1.40	2.33
Barium		41.6		1.17	2.33
Beryllium		0.560	J	0.233	1.17
Cadmium		0.980	J	0.117	1.17
Calcium		430		117	233
Chromium		13.0		1.05	1.17
Cobalt		9.22		1.17	2.33
Copper		13.0		1.28	2.33
Iron		20600		23.3	46.7
Lead		14.3		0.583	1.17
Magnesium		2670		117	233
Manganese		243		1.17	3.50
Nickel		20.4		0.700	2.33
Selenium		1.28	U	1.28	2.33
Sodium		152	U	152	233
Thallium		2.10	J	0.700	2.33
Vanadium		17.9		2.33	11.7
Zinc		57.6		5.83	11.7

Analysis Method:	6010C	Analysis Batch:	490-391777	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390982	Lab File ID:	TALS_120316-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.502 g
Analysis Date:	12/03/2016 2216			Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 0947				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Potassium		982		117	233
Silver		0.467	U	0.467	1.17

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-392751	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-392116	Lab File ID:	12716-5bLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.608 g
Analysis Date:	12/07/2016 1522			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1304				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0347	U	0.0347	0.116

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END 435

Lab Sample ID: 490-116812-4 Date Sampled: 11/23/2016 0800
Client Matrix: Solid % Moisture: 11.4 Date Received: 11/28/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391569	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-390982	Lab File ID:	TALS_120216-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.499 g
Analysis Date:	12/03/2016 0314			Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 0947				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10000		11.3	22.6
Antimony		1.13	U	1.13	11.3
Arsenic		8.17		1.36	2.26
Barium		44.2		1.13	2.26
Beryllium		0.543	J	0.226	1.13
Cadmium		0.860	J	0.113	1.13
Calcium		510		113	226
Chromium		11.8		1.02	1.13
Cobalt		8.67		1.13	2.26
Copper		10.6		1.24	2.26
Iron		18800		22.6	45.3
Lead		12.1		0.566	1.13
Magnesium		2390		113	226
Manganese		322		1.13	3.39
Nickel		15.6		0.679	2.26
Selenium		1.24	U	1.24	2.26
Sodium		147	U	147	226
Thallium		5.20		0.679	2.26
Vanadium		13.6		2.26	11.3
Zinc		44.3		5.66	11.3

Analysis Method:	6010C	Analysis Batch:	490-391777	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-390982	Lab File ID:	TALS_120316-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.499 g
Analysis Date:	12/03/2016 2221			Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 0947				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Potassium		512		113	226
Silver		0.453	U	0.453	1.13

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-392751	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-392116	Lab File ID:	12716-5bLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.610 g
Analysis Date:	12/07/2016 1530			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1304				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0333	U	0.0333	0.111

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: TP-312-6-7

Lab Sample ID: 490-116812-5 Date Sampled: 11/23/2016 1015
Client Matrix: Solid % Moisture: 18.7 Date Received: 11/28/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391586	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-391113	Lab File ID:	TALS_120216-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.514 g
Analysis Date:	12/03/2016 0801			Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 1414				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		13200		12.0	23.9
Antimony		1.20	U	1.20	12.0
Arsenic		8.14		1.44	2.39
Barium		61.2		1.20	2.39
Beryllium		0.479	J	0.239	1.20
Cadmium		0.455	J	0.120	1.20
Calcium		1170		120	239
Cobalt		7.08		1.20	2.39
Copper		15.2		1.32	2.39
Iron		15400		23.9	47.9
Lead		26.2		0.598	1.20
Magnesium		2250		120	239
Manganese		163		1.20	3.59
Nickel		20.5		0.718	2.39
Potassium		639		120	239
Selenium		1.89	J	1.32	2.39
Silver		0.479	U	0.479	1.20
Sodium		156	U	156	239
Thallium		0.718	U	0.718	2.39
Vanadium		17.3		2.39	12.0
Zinc		123		5.98	12.0

Analysis Method:	6010C	Analysis Batch:	490-391698	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-391113	Lab File ID:	TALS_120316-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.514 g
Analysis Date:	12/03/2016 2216			Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 1414				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		12.9		1.08	1.20

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-392751	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-392116	Lab File ID:	12716-5bLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.609 g
Analysis Date:	12/07/2016 1533			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1304				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0750	J	0.0364	0.121

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END-438

Lab Sample ID: 490-116812-6 Date Sampled: 11/23/2016 0815
Client Matrix: Solid % Moisture: 12.3 Date Received: 11/28/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391586	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-391113	Lab File ID:	TALS_120216-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.495 g
Analysis Date:	12/03/2016 0806			Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 1414				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9260		11.5	23.0
Antimony		1.15	U	1.15	11.5
Arsenic		16.8		1.38	2.30
Barium		41.5		1.15	2.30
Beryllium		0.530	J	0.230	1.15
Cadmium		0.369	J	0.115	1.15
Calcium		540		115	230
Cobalt		12.3		1.15	2.30
Copper		13.3		1.27	2.30
Iron		17700		23.0	46.1
Lead		13.2		0.576	1.15
Magnesium		2410		115	230
Manganese		215		1.15	3.46
Nickel		20.6		0.691	2.30
Potassium		479		115	230
Selenium		1.57	J	1.27	2.30
Silver		0.461	U	0.461	1.15
Sodium		150	U	150	230
Thallium		0.691	U	0.691	2.30
Vanadium		12.9		2.30	11.5
Zinc		53.3		5.76	11.5

Analysis Method:	6010C	Analysis Batch:	490-391698	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-391113	Lab File ID:	TALS_120316-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.495 g
Analysis Date:	12/03/2016 2221			Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 1414				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		10.1		1.04	1.15

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-392751	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-392116	Lab File ID:	12716-5bLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.596 g
Analysis Date:	12/07/2016 1536			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1304				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0344	U	0.0344	0.115

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: TP-311-6-7

Lab Sample ID: 490-116812-7 Date Sampled: 11/23/2016 1000
Client Matrix: Solid % Moisture: 27.0 Date Received: 11/28/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391586	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-391113	Lab File ID:	TALS_120216-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.500 g
Analysis Date:	12/03/2016 0811			Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 1414				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		8660		13.7	27.4
Antimony		2.63	J	1.37	13.7
Arsenic		17.1		1.64	2.74
Barium		79.5		1.37	2.74
Beryllium		0.493	J	0.274	1.37
Cadmium		0.877	J	0.137	1.37
Calcium		3930		137	274
Cobalt		5.97		1.37	2.74
Copper		51.0		1.51	2.74
Iron		13200		27.4	54.8
Lead		124		0.685	1.37
Magnesium		3130		137	274
Manganese		136		1.37	4.11
Nickel		14.1		0.822	2.74
Potassium		517		137	274
Selenium		1.51	U	1.51	2.74
Silver		0.548	U	0.548	1.37
Sodium		178	U	178	274
Thallium		0.822	U	0.822	2.74
Vanadium		18.7		2.74	13.7
Zinc		129		6.85	13.7

Analysis Method:	6010C	Analysis Batch:	490-391698	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-391113	Lab File ID:	TALS_120316-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.500 g
Analysis Date:	12/03/2016 2226			Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 1414				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		15.2		1.23	1.37

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-392751	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-392116	Lab File ID:	12716-5bLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.625 g
Analysis Date:	12/07/2016 1539			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1304				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.329		0.0395	0.132

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: TP-310-6-7

Lab Sample ID: 490-116812-8 Date Sampled: 11/23/2016 0930
Client Matrix: Solid % Moisture: 13.6 Date Received: 11/28/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391586	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-391113	Lab File ID:	TALS_120216-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.513 g
Analysis Date:	12/03/2016 0816			Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 1414				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6570		11.3	22.6
Antimony		1.13	U	1.13	11.3
Arsenic		12.3		1.35	2.26
Barium		53.5		1.13	2.26
Beryllium		0.383	J	0.226	1.13
Cadmium		0.316	J	0.113	1.13
Calcium		2240		113	226
Cobalt		5.89		1.13	2.26
Copper		27.2		1.24	2.26
Iron		17300		22.6	45.1
Lead		17.8		0.564	1.13
Magnesium		1840		113	226
Manganese		412		1.13	3.38
Nickel		17.2		0.677	2.26
Potassium		420		113	226
Selenium		1.78	J	1.24	2.26
Silver		0.451	U	0.451	1.13
Sodium		147	U	147	226
Thallium		0.677	U	0.677	2.26
Vanadium		12.5		2.26	11.3
Zinc		77.3		5.64	11.3

Analysis Method:	6010C	Analysis Batch:	490-391698	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-391113	Lab File ID:	TALS_120316-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.513 g
Analysis Date:	12/03/2016 2231			Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 1414				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		11.5		1.01	1.13

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-392751	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-392116	Lab File ID:	12716-5bLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.623 g
Analysis Date:	12/07/2016 1541			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1304				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0334	J	0.0334	0.111

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: TP-309-6-7

Lab Sample ID: 490-116812-9 Date Sampled: 11/23/2016 0900
Client Matrix: Solid % Moisture: 11.6 Date Received: 11/28/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391586	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-391113	Lab File ID:	TALS_120216-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.525 g
Analysis Date:	12/03/2016 0821			Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 1414				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6070		10.8	21.6
Antimony		1.08	U	1.08	10.8
Arsenic		10.8		1.29	2.16
Barium		53.0		1.08	2.16
Beryllium		0.323	J	0.216	1.08
Cadmium		0.496	J	0.108	1.08
Calcium		3490		108	216
Cobalt		4.25		1.08	2.16
Copper		32.1		1.19	2.16
Iron		12900		21.6	43.1
Lead		64.4		0.539	1.08
Magnesium		2140		108	216
Manganese		518		1.08	3.23
Nickel		13.0		0.647	2.16
Potassium		329		108	216
Selenium		1.42	J	1.19	2.16
Silver		0.431	U	0.431	1.08
Sodium		140	U	140	216
Thallium		0.647	U	0.647	2.16
Vanadium		10.9		2.16	10.8
Zinc		96.9		5.39	10.8

Analysis Method:	6010C	Analysis Batch:	490-391698	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-391113	Lab File ID:	TALS_120316-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.525 g
Analysis Date:	12/03/2016 2236			Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 1414				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		8.92		0.970	1.08

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-392751	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-392116	Lab File ID:	12716-5bLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.599 g
Analysis Date:	12/07/2016 1544			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1304				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.277		0.0340	0.113

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END-441

Lab Sample ID: 490-116812-10 Date Sampled: 11/23/2016 0945
Client Matrix: Solid % Moisture: 10.5 Date Received: 11/28/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391586	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-391113	Lab File ID:	TALS_120216-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.510 g
Analysis Date:	12/03/2016 0826			Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 1414				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5320		11.0	21.9
Antimony		1.10	U	1.10	11.0
Arsenic		5.81		1.31	2.19
Barium		31.1		1.10	2.19
Beryllium		0.307	J	0.219	1.10
Cadmium		0.438	J	0.110	1.10
Calcium		666		110	219
Cobalt		7.45		1.10	2.19
Copper		14.6		1.21	2.19
Iron		7980		21.9	43.8
Lead		8.77		0.548	1.10
Magnesium		1720		110	219
Manganese		516		1.10	3.29
Nickel		12.7		0.657	2.19
Potassium		266		110	219
Selenium		1.21	U	1.21	2.19
Silver		0.438	U	0.438	1.10
Sodium		142	U	142	219
Thallium		0.657	U	0.657	2.19
Vanadium		6.66	J	2.19	11.0
Zinc		62.2		5.48	11.0

Analysis Method:	6010C	Analysis Batch:	490-391698	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-391113	Lab File ID:	TALS_120316-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.510 g
Analysis Date:	12/03/2016 2253			Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 1414				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		7.14		0.986	1.10

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-392751	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-392116	Lab File ID:	12716-5bLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.598 g
Analysis Date:	12/07/2016 1547			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1304				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0336	U	0.0336	0.112

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END-442

Lab Sample ID: 490-116812-12 Date Sampled: 11/23/2016 0945
Client Matrix: Solid % Moisture: 9.5 Date Received: 11/28/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391586	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-391113	Lab File ID:	TALS_120216-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.515 g
Analysis Date:	12/03/2016 0842			Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 1414				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4520		10.7	21.5
Antimony		1.07	U	1.07	10.7
Arsenic		7.83		1.29	2.15
Barium		26.1		1.07	2.15
Beryllium		0.300	J	0.215	1.07
Cadmium		0.472	J	0.107	1.07
Calcium		692		107	215
Chromium		6.39		0.966	1.07
Cobalt		4.87		1.07	2.15
Copper		25.4		1.18	2.15
Iron		8810		21.5	42.9
Lead		10.2		0.536	1.07
Magnesium		1600		107	215
Manganese		667		1.07	3.22
Nickel		12.5		0.644	2.15
Potassium		266		107	215
Selenium		1.18	U	1.18	2.15
Silver		0.429	U	0.429	1.07
Sodium		139	U	139	215
Thallium		0.644	U	0.644	2.15
Vanadium		9.16	J	2.15	10.7
Zinc		70.4		5.36	10.7

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-392751	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-392118	Lab File ID:	12716-5bLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.622 g
Analysis Date:	12/07/2016 1358			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1307				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0320	U	0.0320	0.107

Client: Roux Associates, Inc. Job Number: 490-116812-1

Client Sample ID: END-437

Lab Sample ID: 490-116812-13 Date Sampled: 11/23/2016 0815
Client Matrix: Solid % Moisture: 13.3 Date Received: 11/28/2016 0830

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-391586	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-391113	Lab File ID:	TALS_120216-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.503 g
Analysis Date:	12/03/2016 0847			Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 1414				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7900		11.5	22.9
Antimony		1.15	U	1.15	11.5
Arsenic		15.4		1.38	2.29
Barium		39.6		1.15	2.29
Beryllium		0.459	J	0.229	1.15
Cadmium		0.344	J	0.115	1.15
Calcium		299		115	229
Chromium		9.64		1.03	1.15
Cobalt		8.60		1.15	2.29
Copper		14.6		1.26	2.29
Iron		14600		22.9	45.9
Lead		15.9		0.574	1.15
Magnesium		1980		115	229
Manganese		226		1.15	3.44
Nickel		16.8		0.688	2.29
Potassium		347		115	229
Selenium		1.72	J	1.26	2.29
Silver		0.459	U	0.459	1.15
Sodium		149	U	149	229
Thallium		0.688	U	0.688	2.29
Vanadium		11.5		2.29	11.5
Zinc		50.9		5.74	11.5

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-392751	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-392118	Lab File ID:	12716-5bLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.597 g
Analysis Date:	12/07/2016 1406			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1307				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0348	U	0.0348	0.116

General Chemistry

Client Sample ID: **END 436**

Lab Sample ID: 490-116812-1 Date Sampled: 11/23/2016 0800
Client Matrix: Solid Date Received: 11/28/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	89.4		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-390299 Analysis Date: 11/29/2016 0945 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 440**

Lab Sample ID: 490-116812-2 Date Sampled: 11/23/2016 0830
Client Matrix: Solid Date Received: 11/28/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	86.9		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-390299 Analysis Date: 11/29/2016 0945 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 439**

Lab Sample ID: 490-116812-3 Date Sampled: 11/23/2016 0830
Client Matrix: Solid Date Received: 11/28/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	85.4		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-390299 Analysis Date: 11/29/2016 0945 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 435**

Lab Sample ID: 490-116812-4 Date Sampled: 11/23/2016 0800
Client Matrix: Solid Date Received: 11/28/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	88.6		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-390299 Analysis Date: 11/29/2016 0945 DryWt Corrected: N

General Chemistry

Client Sample ID: **TP-312-6-7**

Lab Sample ID: 490-116812-5 Date Sampled: 11/23/2016 1015
Client Matrix: Solid Date Received: 11/28/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	81.3		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-390299 Analysis Date: 11/29/2016 0945 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-438**

Lab Sample ID: 490-116812-6 Date Sampled: 11/23/2016 0815
Client Matrix: Solid Date Received: 11/28/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	87.7		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-390299 Analysis Date: 11/29/2016 0945 DryWt Corrected: N

General Chemistry

Client Sample ID: **TP-311-6-7**

Lab Sample ID: 490-116812-7 Date Sampled: 11/23/2016 1000
Client Matrix: Solid Date Received: 11/28/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	73.0		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-390299 Analysis Date: 11/29/2016 0945 DryWt Corrected: N

General Chemistry

Client Sample ID: **TP-310-6-7**

Lab Sample ID: 490-116812-8 Date Sampled: 11/23/2016 0930
Client Matrix: Solid Date Received: 11/28/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	86.4		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-390299 Analysis Date: 11/29/2016 0945 DryWt Corrected: N

General Chemistry

Client Sample ID: **TP-309-6-7**

Lab Sample ID: 490-116812-9 Date Sampled: 11/23/2016 0900
Client Matrix: Solid Date Received: 11/28/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	88.4		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-390299 Analysis Date: 11/29/2016 0945 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-441**

Lab Sample ID: 490-116812-10 Date Sampled: 11/23/2016 0945
Client Matrix: Solid Date Received: 11/28/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	89.5		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-390299 Analysis Date: 11/29/2016 0945 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-442**

Lab Sample ID: 490-116812-12 Date Sampled: 11/23/2016 0945
Client Matrix: Solid Date Received: 11/28/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	90.5		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-390299 Analysis Date: 11/29/2016 0945 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-437**

Lab Sample ID: 490-116812-13 Date Sampled: 11/23/2016 0815
Client Matrix: Solid Date Received: 11/28/2016 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	86.7		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-390299 Analysis Date: 11/29/2016 0945 DryWt Corrected: N

DATA REPORTING QUALIFIERS

Client: Roux Associates, Inc. Job Number: 490-116812-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Analyzed for but not detected.
	E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.
	J	Indicates an estimated value.
	*	ISTD response or retention time outside acceptable limits
	*	LCS or LCSD is outside acceptance limits.
	*	MS or MSD is outside acceptance limits.
	*	Surrogate is outside acceptance limits.
	B	The analyte was found in an associated blank, as well as in the sample.
	N	This flag indicates the presumptive evidence of a compound.
GC/MS Semi VOA		
	U	Analyzed for but not detected.
	J	Indicates an estimated value.
	*	LCS or LCSD is outside acceptance limits.
	*	MS or MSD is outside acceptance limits.
Metals		
	U	Indicates analyzed for but not detected.
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
	J	Sample result is greater than the MDL but below the CRDL
	N	Spiked sample recovery is not within control limits.

QUALITY CONTROL RESULTS

Client: Roux Associates, Inc. Job Number: 490-116812-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 490-390327					
490-116812-2	END 440	T	Solid	5035A	
490-116812-4	END 435	T	Solid	5035A	
490-116812-4MS	Matrix Spike	T	Solid	5035A	
490-116812-4MSD	Matrix Spike Duplicate	T	Solid	5035A	
490-116812-6	END-438	T	Solid	5035A	
490-116812-10	END-441	T	Solid	5035A	
490-116812-12	END-442	T	Solid	5035A	
Prep Batch: 490-390330					
490-116812-1	END 436	T	Solid	5035A	
490-116812-2	END 440	T	Solid	5035A	
490-116812-3	END 439	T	Solid	5035A	
490-116812-4	END 435	T	Solid	5035A	
490-116812-5	TP-312-6-7	T	Solid	5035A	
490-116812-6	END-438	T	Solid	5035A	
490-116812-7	TP-311-6-7	T	Solid	5035A	
490-116812-8	TP-310-6-7	T	Solid	5035A	
490-116812-9	TP-309-6-7	T	Solid	5035A	
490-116812-10	END-441	T	Solid	5035A	
490-116812-11TB	TRIP BLANK	T	Solid	5035A	
490-116812-12	END-442	T	Solid	5035A	
490-116812-13	END-437	T	Solid	5035A	
Prep Batch: 490-390346					
490-116812-1MS	Matrix Spike	T	Solid	5035A	
490-116812-1MSD	Matrix Spike Duplicate	T	Solid	5035A	

Client: Roux Associates, Inc. Job Number: 490-116812-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:490-390647					
LCS 490-390647/7	Lab Control Sample	T	Solid	8260C	
LCSD 490-390647/8	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-390647/11	Method Blank	T	Solid	8260C	
490-116812-1	END 436	T	Solid	8260C	490-390330
490-116812-1MS	Matrix Spike	T	Solid	8260C	490-390346
490-116812-1MSD	Matrix Spike Duplicate	T	Solid	8260C	490-390346
490-116812-2	END 440	T	Solid	8260C	490-390330
490-116812-3	END 439	T	Solid	8260C	490-390330
490-116812-4	END 435	T	Solid	8260C	490-390330
490-116812-5	TP-312-6-7	T	Solid	8260C	490-390330
490-116812-6	END-438	T	Solid	8260C	490-390330
490-116812-7	TP-311-6-7	T	Solid	8260C	490-390330
490-116812-8	TP-310-6-7	T	Solid	8260C	490-390330
490-116812-9	TP-309-6-7	T	Solid	8260C	490-390330
490-116812-10	END-441	T	Solid	8260C	490-390330
490-116812-11TB	TRIP BLANK	T	Solid	8260C	490-390330
490-116812-12	END-442	T	Solid	8260C	490-390330
490-116812-13	END-437	T	Solid	8260C	490-390330
Analysis Batch:490-391219					
LCS 490-391219/4	Lab Control Sample	T	Solid	8260C	
LCSD 490-391219/5	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-391219/9	Method Blank	T	Solid	8260C	
490-116812-2	END 440	T	Solid	8260C	490-390327
490-116812-4	END 435	T	Solid	8260C	490-390327
490-116812-4MS	Matrix Spike	T	Solid	8260C	490-390327
490-116812-4MSD	Matrix Spike Duplicate	T	Solid	8260C	490-390327
490-116812-6	END-438	T	Solid	8260C	490-390327
490-116812-10	END-441	T	Solid	8260C	490-390327
490-116812-12	END-442	T	Solid	8260C	490-390327

Report Basis
T = Total

Client: Roux Associates, Inc. Job Number: 490-116812-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 490-390996					
LCS 490-390996/2-A	Lab Control Sample	T	Solid	3550C	
MB 490-390996/1-A	Method Blank	T	Solid	3550C	
490-116812-1	END 436	T	Solid	3550C	
490-116812-1MS	Matrix Spike	T	Solid	3550C	
490-116812-1MSD	Matrix Spike Duplicate	T	Solid	3550C	
490-116812-2	END 440	T	Solid	3550C	
490-116812-3	END 439	T	Solid	3550C	
490-116812-4	END 435	T	Solid	3550C	
490-116812-5	TP-312-6-7	T	Solid	3550C	
490-116812-6	END-438	T	Solid	3550C	
490-116812-7	TP-311-6-7	T	Solid	3550C	
490-116812-8	TP-310-6-7	T	Solid	3550C	
490-116812-9	TP-309-6-7	T	Solid	3550C	
490-116812-10	END-441	T	Solid	3550C	
490-116812-12	END-442	T	Solid	3550C	
Prep Batch: 490-391021					
LCS 490-391021/2-A	Lab Control Sample	T	Solid	3550C	
MB 490-391021/1-A	Method Blank	T	Solid	3550C	
490-116812-13	END-437	T	Solid	3550C	
490-117018-D-2-B MS	Matrix Spike	T	Solid	3550C	
490-117018-D-2-C MSD	Matrix Spike Duplicate	T	Solid	3550C	
Analysis Batch:490-391291					
LCS 490-391021/2-A	Lab Control Sample	T	Solid	8270D	490-391021
MB 490-391021/1-A	Method Blank	T	Solid	8270D	490-391021
490-116812-13	END-437	T	Solid	8270D	490-391021
490-117018-D-2-B MS	Matrix Spike	T	Solid	8270D	490-391021
490-117018-D-2-C MSD	Matrix Spike Duplicate	T	Solid	8270D	490-391021

Client: Roux Associates, Inc. Job Number: 490-116812-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:490-391351					
LCS 490-390996/2-A	Lab Control Sample	T	Solid	8270D	490-390996
MB 490-390996/1-A	Method Blank	T	Solid	8270D	490-390996
490-116812-1	END 436	T	Solid	8270D	490-390996
490-116812-1MS	Matrix Spike	T	Solid	8270D	490-390996
490-116812-1MSD	Matrix Spike Duplicate	T	Solid	8270D	490-390996
490-116812-2	END 440	T	Solid	8270D	490-390996
490-116812-3	END 439	T	Solid	8270D	490-390996
490-116812-4	END 435	T	Solid	8270D	490-390996
490-116812-5	TP-312-6-7	T	Solid	8270D	490-390996
490-116812-6	END-438	T	Solid	8270D	490-390996
490-116812-7	TP-311-6-7	T	Solid	8270D	490-390996
490-116812-8	TP-310-6-7	T	Solid	8270D	490-390996
490-116812-9	TP-309-6-7	T	Solid	8270D	490-390996
490-116812-10	END-441	T	Solid	8270D	490-390996
490-116812-12	END-442	T	Solid	8270D	490-390996
Analysis Batch:490-391814					
490-116812-8	TP-310-6-7	T	Solid	8270D	490-390996
490-116812-10	END-441	T	Solid	8270D	490-390996

Report Basis
T = Total

Client: Roux Associates, Inc. Job Number: 490-116812-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 490-390570					
490-116534-D-1-G MS ^5	Matrix Spike	T	Solid	3051A	
490-116534-D-1-H MSD ^5	Matrix Spike Duplicate	T	Solid	3051A	
Prep Batch: 490-390982					
LCS 490-390982/2-A	Lab Control Sample	T	Solid	3051A	
MB 490-390982/1-A	Method Blank	T	Solid	3051A	
490-116774-A-19-C MS ^5	Matrix Spike	T	Solid	3051A	
490-116774-A-19-D MSD ^5	Matrix Spike Duplicate	T	Solid	3051A	
490-116812-1	END 436	T	Solid	3051A	
490-116812-2	END 440	T	Solid	3051A	
490-116812-3	END 439	T	Solid	3051A	
490-116812-4	END 435	T	Solid	3051A	
Prep Batch: 490-391113					
LCS 490-391113/2-A	Lab Control Sample	T	Solid	3051A	
LCSD 490-391113/3-A	Lab Control Sample Duplicate	T	Solid	3051A	
MB 490-391113/1-A	Method Blank	T	Solid	3051A	
490-116812-5	TP-312-6-7	T	Solid	3051A	
490-116812-6	END-438	T	Solid	3051A	
490-116812-7	TP-311-6-7	T	Solid	3051A	
490-116812-8	TP-310-6-7	T	Solid	3051A	
490-116812-9	TP-309-6-7	T	Solid	3051A	
490-116812-10	END-441	T	Solid	3051A	
490-116812-12	END-442	T	Solid	3051A	
490-116812-13	END-437	T	Solid	3051A	
490-117084-B-1-B MS	Matrix Spike	T	Solid	3051A	
490-117084-B-1-C MSD	Matrix Spike Duplicate	T	Solid	3051A	
Analysis Batch:490-391445					
LCS 490-391113/2-A	Lab Control Sample	T	Solid	6010C	490-391113
LCSD 490-391113/3-A	Lab Control Sample Duplicate	T	Solid	6010C	490-391113
MB 490-391113/1-A	Method Blank	T	Solid	6010C	490-391113
490-117084-B-1-B MS	Matrix Spike	T	Solid	6010C	490-391113
490-117084-B-1-C MSD	Matrix Spike Duplicate	T	Solid	6010C	490-391113
Analysis Batch:490-391569					
490-116812-1	END 436	T	Solid	6010C	490-390982
490-116812-2	END 440	T	Solid	6010C	490-390982
490-116812-3	END 439	T	Solid	6010C	490-390982
490-116812-4	END 435	T	Solid	6010C	490-390982

Client: Roux Associates, Inc. Job Number: 490-116812-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:490-391586					
490-116812-5	TP-312-6-7	T	Solid	6010C	490-391113
490-116812-6	END-438	T	Solid	6010C	490-391113
490-116812-7	TP-311-6-7	T	Solid	6010C	490-391113
490-116812-8	TP-310-6-7	T	Solid	6010C	490-391113
490-116812-9	TP-309-6-7	T	Solid	6010C	490-391113
490-116812-10	END-441	T	Solid	6010C	490-391113
490-116812-12	END-442	T	Solid	6010C	490-391113
490-116812-13	END-437	T	Solid	6010C	490-391113
Analysis Batch:490-391698					
490-116812-5	TP-312-6-7	T	Solid	6010C	490-391113
490-116812-6	END-438	T	Solid	6010C	490-391113
490-116812-7	TP-311-6-7	T	Solid	6010C	490-391113
490-116812-8	TP-310-6-7	T	Solid	6010C	490-391113
490-116812-9	TP-309-6-7	T	Solid	6010C	490-391113
490-116812-10	END-441	T	Solid	6010C	490-391113
Analysis Batch:490-391777					
LCS 490-390982/2-A	Lab Control Sample	T	Solid	6010C	490-390982
MB 490-390982/1-A	Method Blank	T	Solid	6010C	490-390982
490-116534-D-1-G MS ^5	Matrix Spike	T	Solid	6010C	490-390570
490-116534-D-1-H MSD ^5	Matrix Spike Duplicate	T	Solid	6010C	490-390570
490-116774-A-19-C MS ^5	Matrix Spike	T	Solid	6010C	490-390982
490-116774-A-19-D MSD ^5	Matrix Spike Duplicate	T	Solid	6010C	490-390982
490-116812-1	END 436	T	Solid	6010C	490-390982
490-116812-2	END 440	T	Solid	6010C	490-390982
490-116812-3	END 439	T	Solid	6010C	490-390982
490-116812-4	END 435	T	Solid	6010C	490-390982
Prep Batch: 490-392116					
LCS 490-392116/2-A	Lab Control Sample	T	Solid	7471B	
MB 490-392116/1-A	Method Blank	T	Solid	7471B	
490-116812-1	END 436	T	Solid	7471B	
490-116812-1MS	Matrix Spike	T	Solid	7471B	
490-116812-1MSD	Matrix Spike Duplicate	T	Solid	7471B	
490-116812-2	END 440	T	Solid	7471B	
490-116812-3	END 439	T	Solid	7471B	
490-116812-4	END 435	T	Solid	7471B	
490-116812-5	TP-312-6-7	T	Solid	7471B	
490-116812-6	END-438	T	Solid	7471B	
490-116812-7	TP-311-6-7	T	Solid	7471B	
490-116812-8	TP-310-6-7	T	Solid	7471B	
490-116812-9	TP-309-6-7	T	Solid	7471B	
490-116812-10	END-441	T	Solid	7471B	

Client: Roux Associates, Inc. Job Number: 490-116812-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 490-392118					
LCS 490-392118/2-A	Lab Control Sample	T	Solid	7471B	
MB 490-392118/1-A	Method Blank	T	Solid	7471B	
490-116812-12	END-442	T	Solid	7471B	
490-116812-12MS	Matrix Spike	T	Solid	7471B	
490-116812-12MSD	Matrix Spike Duplicate	T	Solid	7471B	
490-116812-13	END-437	T	Solid	7471B	
Analysis Batch:490-392751					
LCS 490-392116/2-A	Lab Control Sample	T	Solid	7471B	490-392116
MB 490-392116/1-A	Method Blank	T	Solid	7471B	490-392116
LCS 490-392118/2-A	Lab Control Sample	T	Solid	7471B	490-392118
MB 490-392118/1-A	Method Blank	T	Solid	7471B	490-392118
490-116812-1	END 436	T	Solid	7471B	490-392116
490-116812-1MS	Matrix Spike	T	Solid	7471B	490-392116
490-116812-1MSD	Matrix Spike Duplicate	T	Solid	7471B	490-392116
490-116812-2	END 440	T	Solid	7471B	490-392116
490-116812-3	END 439	T	Solid	7471B	490-392116
490-116812-4	END 435	T	Solid	7471B	490-392116
490-116812-5	TP-312-6-7	T	Solid	7471B	490-392116
490-116812-6	END-438	T	Solid	7471B	490-392116
490-116812-7	TP-311-6-7	T	Solid	7471B	490-392116
490-116812-8	TP-310-6-7	T	Solid	7471B	490-392116
490-116812-9	TP-309-6-7	T	Solid	7471B	490-392116
490-116812-10	END-441	T	Solid	7471B	490-392116
490-116812-12	END-442	T	Solid	7471B	490-392118
490-116812-12MS	Matrix Spike	T	Solid	7471B	490-392118
490-116812-12MSD	Matrix Spike Duplicate	T	Solid	7471B	490-392118
490-116812-13	END-437	T	Solid	7471B	490-392118

Report Basis
T = Total

Client: Roux Associates, Inc. Job Number: 490-116812-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:490-390299					
490-116812-1	END 436	T	Solid	Moisture	
490-116812-2	END 440	T	Solid	Moisture	
490-116812-2DU	Duplicate	T	Solid	Moisture	
490-116812-3	END 439	T	Solid	Moisture	
490-116812-4	END 435	T	Solid	Moisture	
490-116812-5	TP-312-6-7	T	Solid	Moisture	
490-116812-6	END-438	T	Solid	Moisture	
490-116812-7	TP-311-6-7	T	Solid	Moisture	
490-116812-8	TP-310-6-7	T	Solid	Moisture	
490-116812-9	TP-309-6-7	T	Solid	Moisture	
490-116812-10	END-441	T	Solid	Moisture	
490-116812-12	END-442	T	Solid	Moisture	
490-116812-13	END-437	T	Solid	Moisture	

Report Basis
T = Total

Client: Roux Associates, Inc. Job Number: 490-116812-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
490-116812-1	END 436	95	101	95	100
490-116812-2	END 440	2041*	144*	209*	383*
490-116812-3	END 439	175*	95	111	279*
490-116812-4	END 435	205*	92	111	253*
490-116812-5	TP-312-6-7	151*	94	96	214*
490-116812-6	END-438	439*	97	126	323*
490-116812-7	TP-311-6-7	102	101	99	98
490-116812-8	TP-310-6-7	98	109	107	95
490-116812-9	TP-309-6-7	101	110	106	99
490-116812-10	END-441	1033*	141*	200*	468*
490-116812-11	TRIP BLANK	93	119	113	97
490-116812-12	END-442	400*	97	147*	354*
490-116812-13	END-437	151*	96	117	260*
MB 490-390647/11		96	116	111	94
LCS 490-390647/7		95	97	90	99
LCSD 490-390647/8		95	97	90	99
490-116812-1 MS	END 436 MS	117	94	90	102
490-116812-1 MSD	END 436 MSD	112	96	91	103

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	70-130
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130

Client: Roux Associates, Inc. Job Number: 490-116812-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
490-116812-2	END 440	101	90	94	114
490-116812-6	END-438	99	91	95	121
490-116812-10	END-441	101	89	95	129
490-116812-12	END-442	98	90	93	121
MB 490-391219/9		99	125	122	90
LCS 490-391219/4		98	102	99	95
LCSD 490-391219/5		93	102	99	95
490-116812-4 MS	END 435 MS	100	97	104	102
490-116812-4 MSD	END 435 MSD	99	95	96	101

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	70-130
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130

Client: Roux Associates, Inc. Job Number: 490-116812-1

Surrogate Recovery Report

8270D Semivolatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	FBP %Rec	2FP %Rec	NBZ %Rec	PHL %Rec	TPHL %Rec	TBP %Rec
490-116812-1	END 436	66	59	84	69	77	47
490-116812-2	END 440	76	60	89	69	85	72
490-116812-3	END 439	72	62	89	72	77	60
490-116812-4	END 435	77	67	94	79	86	66
490-116812-5	TP-312-6-7	72	59	85	73	79	60
490-116812-6	END-438	62	53	73	66	81	57
490-116812-7	TP-311-6-7	70	57	83	71	77	59
490-116812-8	TP-310-6-7	82	68	92	80	89	74
490-116812-9	TP-309-6-7	58	40	66	53	59	45
490-116812-10	END-441	75	60	90	74	89	81
490-116812-12	END-442	88	72	98	91	99	76
490-116812-13	END-437	81	63	72	72	90	92
MB 490-390996/1-A		75	53	95	67	79	29
MB 490-391021/1-A		85	54	84	64	98	40
LCS 490-390996/2-A		70	62	89	74	67	49
LCS 490-391021/2-A		78	72	76	77	96	93
490-116812-1 MS	END 436 MS	77	64	96	78	82	58
490-117018-D-2-B MS		86	72	78	80	96	93
490-116812-1 MSD	END 436 MSD	71	59	87	70	78	54
490-117018-D-2-C MSD		95	78	83	90	105	108

Surrogate	Acceptance Limits
FBP = 2-Fluorobiphenyl (Surr)	29-120
2FP = 2-Fluorophenol (Surr)	10-120
NBZ = Nitrobenzene-d5 (Surr)	27-120
PHL = Phenol-d5 (Surr)	10-120
TPHL = Terphenyl-d14 (Surr)	13-120
TBP = 2,4,6-Tribromophenol (Surr)	10-120

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-390327

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116812-4	Analysis Batch:	490-391219	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	490-390327	Lab File ID:	120216-18.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	7.137 g
Analysis Date:	12/02/2016 1711			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0700				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116812-4	Analysis Batch:	490-391219	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	490-390327	Lab File ID:	120216-19.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	7.137 g
Analysis Date:	12/02/2016 1740			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0700				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	105	128	10 - 150	20	50		
Benzene	99	125	21 - 150	24	50		
Bromobenzene	87	106	10 - 150	19	50		
Bromochloromethane	90	110	10 - 150	20	50		
Bromodichloromethane	98	117	10 - 150	18	50		
Bromoform	87	108	10 - 150	22	50		
Bromomethane	14	17	10 - 150	20	50		
2-Butanone (MEK)	91	118	10 - 150	25	50		
Carbon disulfide	104	123	10 - 150	16	50		
Carbon tetrachloride	94	116	10 - 150	21	50		
Chlorobenzene	87	105	10 - 150	19	50		
Chloroethane	47	47	10 - 150	1	50		
Chloroform	98	118	10 - 150	18	50		
Chloromethane	60	79	10 - 150	27	50		
cis-1,2-Dichloroethene	93	113	10 - 150	19	50		
cis-1,3-Dichloropropene	87	105	10 - 150	19	50		
Dibromochloromethane	84	104	10 - 150	22	50		
1,2-Dibromo-3-chloropropane	95	120	10 - 150	23	50		
1,2-Dibromoethane	96	116	10 - 150	19	50		
1,2-Dichlorobenzene	88	107	10 - 150	19	50		
1,3-Dichlorobenzene	89	106	10 - 150	17	50		
1,4-Dichlorobenzene	80	102	10 - 150	24	50		
Dichlorodifluoromethane	123	151	10 - 150	21	50		*
1,1-Dichloroethane	94	114	10 - 150	19	50		
1,2-Dichloroethane	87	106	24 - 138	20	50		
1,1-Dichloroethene	99	120	10 - 150	19	50		
1,2-Dichloropropane	92	109	10 - 150	17	50		
1,3-Dichloropropane	87	105	10 - 150	19	50		
2,2-Dichloropropane	92	119	10 - 150	25	50		
1,1-Dichloropropene	96	116	10 - 150	19	50		
Ethylbenzene	97	114	10 - 150	17	50		
Hexachlorobutadiene	87	105	10 - 150	18	50		

Client: Roux Associates, Inc. Job Number: 490-116812-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-390327

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116812-4	Analysis Batch:	490-391219	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	490-390327	Lab File ID:	120216-18.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	7.137 g
Analysis Date:	12/02/2016 1711			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0700				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116812-4	Analysis Batch:	490-391219	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	490-390327	Lab File ID:	120216-19.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	7.137 g
Analysis Date:	12/02/2016 1740			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0700				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2-Hexanone	82	107	10 - 150	27	50		
Isopropylbenzene	94	112	10 - 150	17	50		
Methylene bromide	91	111	10 - 150	20	50		
Methylene Chloride	92	114	24 - 150	21	50		
4-Methyl-2-pentanone (MIBK)	85	105	10 - 150	22	50		
Methyl tert butyl ether	101	125	10 - 150	21	50		
m,p-Xylene	94	110	10 - 150	15	50		
Naphthalene	104	130	10 - 150	22	50		
n-Butylbenzene	89	105	10 - 150	15	50		
N-Propylbenzene	93	109	10 - 150	16	50		
o-Chlorotoluene	89	104	10 - 150	16	50		
o-Xylene	91	109	10 - 150	18	50		
p-Chlorotoluene	86	103	10 - 150	17	50		
p-Isopropyltoluene	94	112	10 - 150	18	50		
sec-Butylbenzene	93	110	10 - 150	16	50		
Styrene	88	104	10 - 150	17	50		
tert-Butylbenzene	91	109	10 - 150	18	50		
1,1,1,2-Tetrachloroethane	89	108	10 - 150	20	50		
1,1,2,2-Tetrachloroethane	80	99	10 - 150	21	50		
Tetrachloroethene	94	114	10 - 150	19	50		
Toluene	98	119	17 - 150	19	50		
trans-1,2-Dichloroethene	93	113	10 - 150	19	50		
trans-1,3-Dichloropropene	86	105	10 - 150	19	50		
1,2,3-Trichlorobenzene	82	101	10 - 150	21	50		
1,2,4-Trichlorobenzene	87	106	10 - 150	19	50		
1,1,1-Trichloroethane	97	121	10 - 150	22	50		
1,1,2-Trichloroethane	294	309	10 - 150	5	50	*	*
Trichloroethene	101	123	10 - 150	19	50		
Trichlorofluoromethane	65	83	10 - 150	24	50		
1,2,3-Trichloropropane	94	115	10 - 150	20	50		
1,2,4-Trimethylbenzene	95	113	10 - 150	16	50		
1,3,5-Trimethylbenzene	104	123	10 - 150	17	50		

Client: Roux Associates, Inc. Job Number: 490-116812-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-390327

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116812-4	Analysis Batch:	490-391219	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	490-390327	Lab File ID:	120216-18.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	7.137 g
Analysis Date:	12/02/2016 1711			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0700				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116812-4	Analysis Batch:	490-391219	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	490-390327	Lab File ID:	120216-19.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	7.137 g
Analysis Date:	12/02/2016 1740			Final Weight/Volume:	5.0 mL
Prep Date:	11/23/2016 0700				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Vinyl acetate	65	75	10 - 150	14	50		
Vinyl chloride	93	114	10 - 150	21	50		
Xylenes (total)	93	109	10 - 150	16	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	100	99	70 - 130
Dibromofluoromethane (Surr)	97	95	70 - 130
1,2-Dichloroethane-d4 (Surr)	104	96	70 - 130
Toluene-d8 (Surr)	102	101	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116812-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-390346

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116812-1	Analysis Batch:	490-390647	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	490-390346	Lab File ID:	113016-27.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.57 g
Analysis Date:	11/30/2016 2228			Final Weight/Volume:	5.0 mL
Prep Date:	11/29/2016 1001				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116812-1	Analysis Batch:	490-390647	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	490-390346	Lab File ID:	113016-28.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.47 g
Analysis Date:	11/30/2016 2257			Final Weight/Volume:	5.0 mL
Prep Date:	11/29/2016 1001				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	116	137	10 - 150	16	50		
Benzene	95	102	21 - 150	8	50		
Bromobenzene	61	59	10 - 150	1	50		
Bromochloromethane	96	101	10 - 150	7	50		
Bromodichloromethane	95	97	10 - 150	4	50		
Bromoform	59	60	10 - 150	4	50		
Bromomethane	20	31	10 - 150	42	50		
2-Butanone (MEK)	109	114	10 - 150	7	50		
Carbon disulfide	91	101	10 - 150	12	50		
Carbon tetrachloride	67	73	10 - 150	10	50		
Chlorobenzene	63	65	10 - 150	4	50		
Chloroethane	91	99	10 - 150	10	50		
Chloroform	94	103	10 - 150	10	50		
Chloromethane	54	61	10 - 150	13	50		
cis-1,2-Dichloroethene	99	108	10 - 150	10	50		
cis-1,3-Dichloropropene	86	91	10 - 150	7	50		
Dibromochloromethane	72	72	10 - 150	3	50		
1,2-Dibromo-3-chloropropane	58	58	10 - 150	2	50		
1,2-Dibromoethane	90	92	10 - 150	4	50		
1,2-Dichlorobenzene	33	34	10 - 150	3	50		
1,3-Dichlorobenzene	33	33	10 - 150	2	50		
1,4-Dichlorobenzene	34	33	10 - 150	1	50		
Dichlorodifluoromethane	85	95	10 - 150	12	50		
1,1-Dichloroethane	93	104	10 - 150	13	50		
1,2-Dichloroethane	89	94	24 - 138	8	50		
1,1-Dichloroethene	92	104	10 - 150	15	50		
1,2-Dichloropropane	94	97	10 - 150	5	50		
1,3-Dichloropropane	91	92	10 - 150	3	50		
2,2-Dichloropropane	78	86	10 - 150	11	50		
1,1-Dichloropropene	81	87	10 - 150	10	50		
Ethylbenzene	57	62	10 - 150	10	50		
Hexachlorobutadiene	8	9	10 - 150	17	50	J *	J *

Client: Roux Associates, Inc. Job Number: 490-116812-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-390346

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116812-1	Analysis Batch:	490-390647	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	490-390346	Lab File ID:	113016-27.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.57 g
Analysis Date:	11/30/2016 2228			Final Weight/Volume:	5.0 mL
Prep Date:	11/29/2016 1001				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116812-1	Analysis Batch:	490-390647	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	490-390346	Lab File ID:	113016-28.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.47 g
Analysis Date:	11/30/2016 2257			Final Weight/Volume:	5.0 mL
Prep Date:	11/29/2016 1001				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2-Hexanone	90	89	10 - 150	1	50		
Isopropylbenzene	42	49	10 - 150	18	50		
Methylene bromide	93	95	10 - 150	3	50		
Methylene Chloride	148	156	24 - 150	7	50		*
4-Methyl-2-pentanone (MIBK)	108	111	10 - 150	5	50		
Methyl tert butyl ether	105	114	10 - 150	10	50		
m,p-Xylene	55	59	10 - 150	10	50		
Naphthalene	31	27	10 - 150	13	50		
n-Butylbenzene	22	25	10 - 150	15	50		
N-Propylbenzene	37	41	10 - 150	13	50		
o-Chlorotoluene	39	44	10 - 150	15	50		
o-Xylene	51	56	10 - 150	11	50		
p-Chlorotoluene	40	41	10 - 150	5	50		
p-Isopropyltoluene	23	26	10 - 150	15	50		
sec-Butylbenzene	31	35	10 - 150	11	50		
Styrene	51	55	10 - 150	9	50		
tert-Butylbenzene	27	32	10 - 150	18	50		
1,1,1,2-Tetrachloroethane	63	63	10 - 150	2	50		
1,1,2,2-Tetrachloroethane	82	78	10 - 150	4	50		
Tetrachloroethene	55	60	10 - 150	10	50		
Toluene	81	87	17 - 150	9	50		
trans-1,2-Dichloroethene	91	103	10 - 150	14	50		
trans-1,3-Dichloropropene	81	84	10 - 150	5	50		
1,2,3-Trichlorobenzene	17	19	10 - 150	15	50		
1,2,4-Trichlorobenzene	16	16	10 - 150	0	50		
1,1,1-Trichloroethane	80	88	10 - 150	11	50		
1,1,2-Trichloroethane	87	41	10 - 150	15	50		
Trichloroethene	84	90	10 - 150	9	50		
Trichlorofluoromethane	79	88	10 - 150	13	50		
1,2,3-Trichloropropane	154	134	10 - 150	12	50	*	
1,2,4-Trimethylbenzene	35	37	10 - 150	9	50		
1,3,5-Trimethylbenzene	32	35	10 - 150	11	50		

Client: Roux Associates, Inc. Job Number: 490-116812-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-390346

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-116812-1	Analysis Batch:	490-390647	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	490-390346	Lab File ID:	113016-27.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.57 g
Analysis Date:	11/30/2016 2228			Final Weight/Volume:	5.0 mL
Prep Date:	11/29/2016 1001				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116812-1	Analysis Batch:	490-390647	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	490-390346	Lab File ID:	113016-28.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.47 g
Analysis Date:	11/30/2016 2257			Final Weight/Volume:	5.0 mL
Prep Date:	11/29/2016 1001				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Vinyl acetate	61	63	10 - 150	4	50		
Vinyl chloride	75	86	10 - 150	15	50		
Xylenes (total)	53	58	10 - 150	10	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	117	112	70 - 130
Dibromofluoromethane (Surr)	94	96	70 - 130
1,2-Dichloroethane-d4 (Surr)	90	91	70 - 130
Toluene-d8 (Surr)	102	103	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116812-1

Method Blank - Batch: 490-390647

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-390647/11	Analysis Batch:	490-390647	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	113016-11.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/30/2016 1434	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	0.00840	U	0.00840	0.0500
Benzene	0.000670	U	0.000670	0.00200
Bromobenzene	0.000720	U	0.000720	0.00200
Bromochloromethane	0.000550	U	0.000550	0.00200
Bromodichloromethane	0.000550	U	0.000550	0.00200
Bromoform	0.000550	U	0.000550	0.00200
Bromomethane	0.00120	U	0.00120	0.00200
2-Butanone (MEK)	0.00510	U	0.00510	0.0500
Carbon disulfide	0.00360	U	0.00360	0.00500
Carbon tetrachloride	0.000670	U	0.000670	0.00200
Chlorobenzene	0.000670	U	0.000670	0.00200
Chloroethane	0.00190	U	0.00190	0.00500
Chloroform	0.000670	U	0.000670	0.00200
Chloromethane	0.000670	U	0.000670	0.00200
cis-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
cis-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
Dibromochloromethane	0.000340	U	0.000340	0.00200
1,2-Dibromo-3-chloropropane	0.000700	U	0.000700	0.00500
1,2-Dibromoethane	0.00100	U	0.00100	0.00200
1,2-Dichlorobenzene	0.000340	U	0.000340	0.00200
1,3-Dichlorobenzene	0.000670	U	0.000670	0.00200
1,4-Dichlorobenzene	0.000670	U	0.000670	0.00200
Dichlorodifluoromethane	0.00100	U	0.00100	0.00200
1,1-Dichloroethane	0.000670	U	0.000670	0.00200
1,2-Dichloroethane	0.000670	U	0.000670	0.00200
1,1-Dichloroethene	0.000570	U	0.000570	0.00200
1,2-Dichloropropane	0.000940	U	0.000940	0.00200
1,3-Dichloropropane	0.000940	U	0.000940	0.00200
2,2-Dichloropropane	0.000670	U	0.000670	0.00200
1,1-Dichloropropene	0.000510	U	0.000510	0.00200
Ethylbenzene	0.000670	U	0.000670	0.00200
Hexachlorobutadiene	0.00114	U	0.00114	0.00500
2-Hexanone	0.0167	U	0.0167	0.0500
Iodomethane	0.00670	U	0.00670	0.0200
Isopropylbenzene	0.000410	U	0.000410	0.00200
Methylene bromide	0.000560	U	0.000560	0.00200
Methylene Chloride	0.000860	U	0.000860	0.0100
4-Methyl-2-pentanone (MIBK)	0.00190	U	0.00190	0.0500
Methyl tert butyl ether	0.000960	U	0.000960	0.00200
m,p-Xylene	0.000560	U	0.000560	0.00400
Naphthalene	0.00170	U	0.00170	0.00500
n-Butylbenzene	0.000980	U	0.000980	0.00200
N-Propylbenzene	0.000670	U	0.000670	0.00200
o-Chlorotoluene	0.000890	U	0.000890	0.00200
o-Xylene	0.000670	U	0.000670	0.00200

Method Blank - Batch: 490-390647

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-390647/11	Analysis Batch:	490-390647	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	113016-11.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/30/2016 1434	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.000840	U	0.000840	0.00200
p-Isopropyltoluene	0.000670	U	0.000670	0.00200
sec-Butylbenzene	0.000670	U	0.000670	0.00200
Styrene	0.00110	U	0.00110	0.00200
tert-Butylbenzene	0.000900	U	0.000900	0.00200
1,1,1,2-Tetrachloroethane	0.000670	U	0.000670	0.00200
1,1,2,2-Tetrachloroethane	0.00100	U	0.00100	0.00200
Tetrachloroethene	0.000730	U	0.000730	0.00200
Toluene	0.000740	U	0.000740	0.00200
trans-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
trans-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
1,2,3-Trichlorobenzene	0.0004781	J	0.000380	0.00200
1,2,4-Trichlorobenzene	0.000670	U	0.000670	0.00200
1,1,1-Trichloroethane	0.000920	U	0.000920	0.00200
1,1,2-Trichloroethane	0.00140	U	0.00140	0.00500
Trichloroethene	0.000960	U	0.000960	0.00200
Trichlorofluoromethane	0.00100	U	0.00100	0.00200
1,2,3-Trichloropropane	0.000550	U	0.000550	0.00200
1,2,4-Trimethylbenzene	0.00100	U	0.00100	0.00200
1,3,5-Trimethylbenzene	0.000750	U	0.000750	0.00200
Vinyl acetate	0.00440	U	0.00440	0.0200
Vinyl chloride	0.00110	U	0.00110	0.00200
Xylenes (total)	0.00123	U	0.00123	0.00600

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	96	70 - 130
Dibromofluoromethane (Surr)	116	70 - 130
1,2-Dichloroethane-d4 (Surr)	111	70 - 130
Toluene-d8 (Surr)	94	70 - 130

Method Blank TICs- Batch: 490-390647

Cas Number	Analyte	RT	Est. Result (mg	Qual
90-12-0	1-Methylnaphthalene	12.41	0.002697	J
91-57-6	2-Methylnaphthalene	12.24	0.003286	J

Client: Roux Associates, Inc. Job Number: 490-116812-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-390647

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-390647/7	Analysis Batch:	490-390647	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	113016-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/30/2016 1236	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-390647/8	Analysis Batch:	490-390647	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	113016-08.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/30/2016 1306	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	104	109	45 - 145	5	38		
Benzene	120	125	70 - 130	5	37		
Bromobenzene	106	112	67 - 130	6	40		
Bromochloromethane	108	113	70 - 133	4	15		
Bromodichloromethane	103	108	70 - 130	5	20		
Bromoform	93	101	59 - 137	8	17		
Bromomethane	108	119	32 - 150	9	45		
2-Butanone (MEK)	112	112	50 - 149	0	39		
Carbon disulfide	101	109	66 - 138	7	41		
Carbon tetrachloride	99	105	70 - 131	6	41		
Chlorobenzene	108	115	70 - 130	6	40		
Chloroethane	92	100	37 - 150	8	50		
Chloroform	110	114	70 - 130	4	15		
Chloromethane	85	89	53 - 150	5	47		
cis-1,2-Dichloroethene	114	122	70 - 132	7	18		
cis-1,3-Dichloropropene	105	111	70 - 130	6	42		
Dibromochloromethane	95	100	70 - 130	5	14		
1,2-Dibromo-3-chloropropane	99	108	47 - 144	9	38		
1,2-Dibromoethane	113	119	69 - 130	5	17		
1,2-Dichlorobenzene	116	121	70 - 134	4	40		
1,3-Dichlorobenzene	117	123	69 - 137	5	41		
1,4-Dichlorobenzene	115	119	66 - 134	3	41		
Dichlorodifluoromethane	96	103	32 - 150	6	50		
1,1-Dichloroethane	105	109	70 - 130	4	42		
1,2-Dichloroethane	101	106	65 - 134	4	16		
1,1-Dichloroethene	106	111	70 - 131	5	43		
1,2-Dichloropropane	108	115	70 - 130	6	15		
1,3-Dichloropropane	108	114	70 - 130	5	15		
2,2-Dichloropropane	95	106	57 - 150	11	42		
1,1-Dichloropropene	110	117	70 - 130	6	41		
Ethylbenzene	115	122	70 - 130	6	38		
Hexachlorobutadiene	115	125	64 - 137	8	44		
2-Hexanone	109	111	47 - 148	2	38		
Isopropylbenzene	117	124	70 - 130	6	39		
Methylene bromide	107	111	70 - 130	4	19		

Client: Roux Associates, Inc. Job Number: 490-116812-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-390647

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-390647/7	Analysis Batch:	490-390647	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	113016-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/30/2016 1236	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-390647/8	Analysis Batch:	490-390647	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	113016-08.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	11/30/2016 1306	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	106	111	69 - 130	4	19		
4-Methyl-2-pentanone (MIBK)	106	113	48 - 150	7	41		
Methyl tert butyl ether	111	118	54 - 145	6	36		
m,p-Xylene	106	118	70 - 130	10	38		
Naphthalene	131	138	55 - 149	5	37		
n-Butylbenzene	120	128	57 - 150	6	39		
N-Propylbenzene	116	123	62 - 150	5	38		
o-Chlorotoluene	112	117	70 - 132	5	41		
o-Xylene	116	124	70 - 130	6	38		
p-Chlorotoluene	115	118	67 - 135	2	41		
p-Isopropyltoluene	119	126	66 - 147	5	38		
sec-Butylbenzene	117	125	68 - 147	6	38		
Styrene	114	120	70 - 131	5	40		
tert-Butylbenzene	109	115	70 - 138	5	38		
1,1,1,2-Tetrachloroethane	100	105	70 - 130	5	41		
1,1,2,2-Tetrachloroethane	106	112	61 - 134	6	16		
Tetrachloroethene	104	112	70 - 130	7	41		
Toluene	118	121	70 - 130	3	40		
trans-1,2-Dichloroethene	106	109	70 - 130	3	41		
trans-1,3-Dichloropropene	99	106	67 - 130	6	41		
1,2,3-Trichlorobenzene	124	128	57 - 146	3	42		
1,2,4-Trichlorobenzene	128	133	47 - 150	4	43		
1,1,1-Trichloroethane	105	109	70 - 130	4	41		
1,1,2-Trichloroethane	109	114	70 - 130	5	17		
Trichloroethene	113	122	70 - 130	8	41		
Trichlorofluoromethane	95	99	53 - 150	5	49		
1,2,3-Trichloropropane	105	110	60 - 139	4	16		
1,2,4-Trimethylbenzene	119	125	70 - 140	5	38		
1,3,5-Trimethylbenzene	108	120	69 - 141	11	38		
Vinyl acetate	146	121	10 - 150	19	50		
Vinyl chloride	91	98	63 - 150	7	46		
Xylenes (total)	111	121	70 - 130	8	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	95	95	70 - 130
Dibromofluoromethane (Surr)	97	97	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116812-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90	90	70 - 130
Toluene-d8 (Surr)	99	99	70 - 130

Method Blank - Batch: 490-391219

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-391219/9	Analysis Batch:	490-391219	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120216-09.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 g
Analysis Date:	12/02/2016 1245	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	0.4468	J	0.420	2.50
Benzene	0.0335	U	0.0335	0.100
Bromobenzene	0.0360	U	0.0360	0.100
Bromochloromethane	0.0275	U	0.0275	0.100
Bromodichloromethane	0.0275	U	0.0275	0.100
Bromoform	0.0275	U	0.0275	0.100
Bromomethane	0.0600	U	0.0600	0.100
2-Butanone (MEK)	0.255	U	0.255	2.50
Carbon disulfide	0.180	U	0.180	0.250
Carbon tetrachloride	0.0335	U	0.0335	0.100
Chlorobenzene	0.0335	U	0.0335	0.100
Chloroethane	0.0950	U	0.0950	0.250
Chloroform	0.0335	U	0.0335	0.100
Chloromethane	0.0335	U	0.0335	0.100
cis-1,2-Dichloroethene	0.0335	U	0.0335	0.100
cis-1,3-Dichloropropene	0.0335	U	0.0335	0.100
Dibromochloromethane	0.0170	U	0.0170	0.100
1,2-Dibromo-3-chloropropane	0.0350	U	0.0350	0.250
1,2-Dibromoethane	0.0500	U	0.0500	0.100
1,2-Dichlorobenzene	0.0170	U	0.0170	0.100
1,3-Dichlorobenzene	0.0335	U	0.0335	0.100
1,4-Dichlorobenzene	0.0335	U	0.0335	0.100
Dichlorodifluoromethane	0.0500	U	0.0500	0.100
1,1-Dichloroethane	0.0335	U	0.0335	0.100
1,2-Dichloroethane	0.0335	U	0.0335	0.100
1,1-Dichloroethene	0.0285	U	0.0285	0.100
1,2-Dichloropropane	0.0470	U	0.0470	0.100
1,3-Dichloropropane	0.0470	U	0.0470	0.100
2,2-Dichloropropane	0.0335	U	0.0335	0.100
1,1-Dichloropropene	0.0255	U	0.0255	0.100
Ethylbenzene	0.0335	U	0.0335	0.100
Hexachlorobutadiene	0.0570	U	0.0570	0.250
2-Hexanone	0.835	U	0.835	2.50
Iodomethane	0.335	U	0.335	1.00
Isopropylbenzene	0.0205	U	0.0205	0.100
Methylene bromide	0.0280	U	0.0280	0.100
Methylene Chloride	0.0430	U	0.0430	0.500
4-Methyl-2-pentanone (MIBK)	0.0950	U	0.0950	2.50
Methyl tert butyl ether	0.0480	U	0.0480	0.100
m,p-Xylene	0.0280	U	0.0280	0.200
Naphthalene	0.0850	U	0.0850	0.250
n-Butylbenzene	0.0490	U	0.0490	0.100
N-Propylbenzene	0.0335	U	0.0335	0.100
o-Chlorotoluene	0.0445	U	0.0445	0.100
o-Xylene	0.0335	U	0.0335	0.100

Client: Roux Associates, Inc. Job Number: 490-116812-1

Method Blank - Batch: 490-391219

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-391219/9	Analysis Batch:	490-391219	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120216-09.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 g
Analysis Date:	12/02/2016 1245	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.0420	U	0.0420	0.100
p-Isopropyltoluene	0.0335	U	0.0335	0.100
sec-Butylbenzene	0.0335	U	0.0335	0.100
Styrene	0.0550	U	0.0550	0.100
tert-Butylbenzene	0.0450	U	0.0450	0.100
1,1,1,2-Tetrachloroethane	0.0335	U	0.0335	0.100
1,1,2,2-Tetrachloroethane	0.0500	U	0.0500	0.100
Tetrachloroethene	0.0365	U	0.0365	0.100
Toluene	0.0370	U	0.0370	0.100
trans-1,2-Dichloroethene	0.0335	U	0.0335	0.100
trans-1,3-Dichloropropene	0.0335	U	0.0335	0.100
1,2,3-Trichlorobenzene	0.05252	J	0.0190	0.100
1,2,4-Trichlorobenzene	0.05015	J	0.0335	0.100
1,1,1-Trichloroethane	0.0460	U	0.0460	0.100
1,1,2-Trichloroethane	0.0700	U	0.0700	0.250
Trichloroethene	0.0480	U	0.0480	0.100
Trichlorofluoromethane	0.0500	U	0.0500	0.100
1,2,3-Trichloropropane	0.0275	U	0.0275	0.100
1,2,4-Trimethylbenzene	0.0500	U	0.0500	0.100
1,3,5-Trimethylbenzene	0.0375	U	0.0375	0.100
Vinyl acetate	0.220	U	0.220	1.00
Vinyl chloride	0.0550	U	0.0550	0.100
Xylenes (total)	0.0615	U	0.0615	0.300

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
Dibromofluoromethane (Surr)	125	70 - 130
1,2-Dichloroethane-d4 (Surr)	122	70 - 130
Toluene-d8 (Surr)	90	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116812-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-391219

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-391219/4	Analysis Batch:	490-391219	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120216-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/02/2016 1018	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-391219/5	Analysis Batch:	490-391219	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120216-05.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/02/2016 1048	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	130	132	45 - 145	2	38		
Benzene	116	121	70 - 130	4	37		
Bromobenzene	110	109	67 - 130	2	40		
Bromochloromethane	117	115	70 - 133	1	15		
Bromodichloromethane	114	116	70 - 130	1	20		
Bromoform	125	119	59 - 137	5	17		
Bromomethane	76	97	32 - 150	25	45		
2-Butanone (MEK)	121	113	50 - 149	7	39		
Carbon disulfide	122	123	66 - 138	1	41		
Carbon tetrachloride	111	119	70 - 131	7	41		
Chlorobenzene	109	111	70 - 130	1	40		
Chloroethane	117	119	37 - 150	1	50		
Chloroform	118	122	70 - 130	3	15		
Chloromethane	98	99	53 - 150	1	47		
cis-1,2-Dichloroethene	121	125	70 - 132	3	18		
cis-1,3-Dichloropropene	112	114	70 - 130	2	42		
Dibromochloromethane	113	112	70 - 130	1	14		
1,2-Dibromo-3-chloropropane	126	121	47 - 144	4	38		
1,2-Dibromoethane	120	120	69 - 130	1	17		
1,2-Dichlorobenzene	119	119	70 - 134	0	40		
1,3-Dichlorobenzene	118	118	69 - 137	0	41		
1,4-Dichlorobenzene	115	117	66 - 134	2	41		
Dichlorodifluoromethane	144	151	32 - 150	5	50		*
1,1-Dichloroethane	112	115	70 - 130	3	42		
1,2-Dichloroethane	111	114	65 - 134	2	16		
1,1-Dichloroethene	120	127	70 - 131	6	43		
1,2-Dichloropropane	111	114	70 - 130	3	15		
1,3-Dichloropropane	110	111	70 - 130	1	15		
2,2-Dichloropropane	114	120	57 - 150	5	42		
1,1-Dichloropropene	113	118	70 - 130	4	41		
Ethylbenzene	116	120	70 - 130	3	38		
Hexachlorobutadiene	138	143	64 - 137	3	44	*	*
2-Hexanone	112	115	47 - 148	2	38		
Isopropylbenzene	119	119	70 - 130	0	39		
Methylene bromide	116	117	70 - 130	1	19		

Client: Roux Associates, Inc. Job Number: 490-116812-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-391219

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-391219/4	Analysis Batch:	490-391219	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120216-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/02/2016 1018	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-391219/5	Analysis Batch:	490-391219	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120216-05.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/02/2016 1048	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	116	120	69 - 130	3	19		
4-Methyl-2-pentanone (MIBK)	110	111	48 - 150	1	41		
Methyl tert butyl ether	128	130	54 - 145	1	36		
m,p-Xylene	115	110	70 - 130	5	38		
Naphthalene	138	135	55 - 149	2	37		
n-Butylbenzene	123	127	57 - 150	3	39		
N-Propylbenzene	116	119	62 - 150	2	38		
o-Chlorotoluene	113	115	70 - 132	2	41		
o-Xylene	119	119	70 - 130	0	38		
p-Chlorotoluene	115	120	67 - 135	4	41		
p-Isopropyltoluene	122	125	66 - 147	2	38		
sec-Butylbenzene	120	123	68 - 147	3	38		
Styrene	118	117	70 - 131	1	40		
tert-Butylbenzene	112	113	70 - 138	1	38		
1,1,1,2-Tetrachloroethane	108	112	70 - 130	3	41		
1,1,2,2-Tetrachloroethane	110	106	61 - 134	4	16		
Tetrachloroethene	110	117	70 - 130	6	41		
Toluene	113	120	70 - 130	6	40		
trans-1,2-Dichloroethene	115	119	70 - 130	3	41		
trans-1,3-Dichloropropene	112	113	67 - 130	1	41		
1,2,3-Trichlorobenzene	129	126	57 - 146	2	42		
1,2,4-Trichlorobenzene	135	132	47 - 150	3	43		
1,1,1-Trichloroethane	114	121	70 - 130	6	41		
1,1,2-Trichloroethane	112	116	70 - 130	3	17		
Trichloroethene	112	123	70 - 130	9	41		
Trichlorofluoromethane	112	117	53 - 150	5	49		
1,2,3-Trichloropropane	109	104	60 - 139	5	16		
1,2,4-Trimethylbenzene	120	121	70 - 140	1	38		
1,3,5-Trimethylbenzene	131	135	69 - 141	3	38		
Vinyl acetate	142	123	10 - 150	14	50		
Vinyl chloride	116	121	63 - 150	4	46		
Xylenes (total)	117	114	70 - 130	3	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	98	93	70 - 130
Dibromofluoromethane (Surr)	102	102	70 - 130

Client: Roux Associates, Inc. Job Number: 490-116812-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99	99	70 - 130
Toluene-d8 (Surr)	95	95	70 - 130

Method Blank - Batch: 490-390996

Method: 8270D
Preparation: 3550C

Lab Sample ID:	MB 490-390996/1-A	Analysis Batch:	490-391351	Instrument ID:	HP83
Client Matrix:	Solid	Prep Batch:	490-390996	Lab File ID:	120216-007.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/02/2016 1427	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	0.0320	U	0.0320	0.0670
Acenaphthylene	0.0290	U	0.0290	0.0670
Aniline	0.253	U	0.253	0.670
Anthracene	0.0290	U	0.0290	0.0670
Benzidine	0.204	U	0.204	0.333
Benzo(a)anthracene	0.0300	U	0.0300	0.0670
Benzo(a)pyrene	0.0270	U	0.0270	0.0670
Benzo(b)fluoranthene	0.0280	U	0.0280	0.0670
Benzo(g,h,i)perylene	0.0330	U	0.0330	0.0670
Benzoic acid	0.0600	U	0.0600	0.333
Benzo(k)fluoranthene	0.0270	U	0.0270	0.0670
Benzyl alcohol	0.194	U	0.194	0.333
Bis(2-chloroethoxy)methane	0.200	U	0.200	0.333
Bis(2-chloroethyl)ether	0.213	U	0.213	0.333
bis (2-chloroisopropyl) ether	0.198	U	0.198	0.333
Bis(2-ethylhexyl)phthalate	0.207	U	0.207	0.333
4-Bromophenyl phenyl ether	0.205	U	0.205	0.333
Butyl benzyl phthalate	0.215	U	0.215	0.333
Carbazole	0.207	U	0.207	0.333
4-Chloroaniline	0.227	U	0.227	0.333
4-Chloro-3-methylphenol	0.168	U	0.168	0.333
2-Chloronaphthalene	0.209	U	0.209	0.333
2-Chlorophenol	0.191	U	0.191	0.333
4-Chlorophenyl phenyl ether	0.201	U	0.201	0.333
Chrysene	0.0370	U	0.0370	0.0670
Dibenzo(a,h)anthracene	0.0320	U	0.0320	0.0670
Dibenzofuran	0.210	U	0.210	0.333
1,2-Dichlorobenzene	0.190	U	0.190	0.333
1,3-Dichlorobenzene	0.190	U	0.190	0.333
1,4-Dichlorobenzene	0.196	U	0.196	0.333
3,3'-Dichlorobenzidine	0.204	U	0.204	0.670
2,4-Dichlorophenol	0.175	U	0.175	0.333
Diethyl phthalate	0.212	U	0.212	0.333
2,4-Dimethylphenol	0.335	U	0.335	0.670
Dimethyl phthalate	0.207	U	0.207	0.333
Di-n-butyl phthalate	0.211	U	0.211	0.333
4,6-Dinitro-o-cresol	0.229	U	0.229	0.333
2,4-Dinitrophenol	0.251	U	0.251	0.333
2,4-Dinitrotoluene	0.208	U	0.208	0.333
2,6-Dinitrotoluene	0.223	U	0.223	0.333
Di-n-octyl phthalate	0.178	U	0.178	0.333
1,2-Diphenylhydrazine (as Azobenzene)	0.234	U	0.234	0.333
Fluoranthene	0.0340	U	0.0340	0.0670
Fluorene	0.0290	U	0.0290	0.0670
Hexachlorobenzene	0.250	U	0.250	0.333

Client: Roux Associates, Inc. Job Number: 490-116812-1

Method Blank - Batch: 490-390996

Method: 8270D
Preparation: 3550C

Lab Sample ID:	MB 490-390996/1-A	Analysis Batch:	490-391351	Instrument ID:	HP83
Client Matrix:	Solid	Prep Batch:	490-390996	Lab File ID:	120216-007.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/02/2016 1427	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Hexachlorobutadiene	0.167	U	0.167	0.333
Hexachlorocyclopentadiene	0.150	U	0.150	0.333
Hexachloroethane	0.181	U	0.181	0.333
Ideno(1,2,3-cd)pyrene	0.0290	U	0.0290	0.0670
Isophorone	0.188	U	0.188	0.333
1-Methylnaphthalene	0.0280	U	0.0280	0.0670
2-Methylnaphthalene	0.0260	U	0.0260	0.0670
Naphthalene	0.0290	U	0.0290	0.0670
2-Nitroaniline	0.207	U	0.207	0.333
3-Nitroaniline	0.230	U	0.230	0.670
4-Nitroaniline	0.238	U	0.238	0.670
Nitrobenzene	0.201	U	0.201	0.333
2-Nitrophenol	0.243	U	0.243	0.333
4-Nitrophenol	0.382	U	0.382	0.670
N-Nitrosodimethylamine	0.0200	U	0.0200	0.333
N-Nitrosodi-n-propylamine	0.194	U	0.194	0.333
N-Nitrosodiphenylamine	0.0530	U	0.0530	0.333
Pentachlorophenol	0.266	U	0.266	0.670
Phenanthrene	0.0340	U	0.0340	0.0670
Phenol	0.203	U	0.203	0.333
Pyrene	0.0340	U	0.0340	0.0670
Pyridine	0.199	U	0.199	0.670
1,2,4-Trichlorobenzene	0.181	U	0.181	0.333
2,4,5-Trichlorophenol	0.218	U	0.218	0.333
2,4,6-Trichlorophenol	0.192	U	0.192	0.333

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	75	29 - 120
2-Fluorophenol (Surr)	53	10 - 120
Nitrobenzene-d5 (Surr)	95	27 - 120
Phenol-d5 (Surr)	67	10 - 120
Terphenyl-d14 (Surr)	79	13 - 120
2,4,6-Tribromophenol (Surr)	29	10 - 120

Client: Roux Associates, Inc. Job Number: 490-116812-1

Lab Control Sample - Batch: 490-390996

Method: 8270D
Preparation: 3550C

Lab Sample ID:	LCS 490-390996/2-A	Analysis Batch:	490-391351	Instrument ID:	HP83
Client Matrix:	Solid	Prep Batch:	490-390996	Lab File ID:	120216-008.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/02/2016 1446	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	1.67	1.239	74	36 - 120	
Acenaphthylene	1.67	1.226	74	38 - 120	
Aniline	1.67	0.9979	60	10 - 150	
Anthracene	1.67	1.308	78	46 - 124	
Benzidine	1.67	0.204	5	10 - 150	U *
Benzo(a)anthracene	1.67	1.222	73	45 - 120	
Benzo(a)pyrene	1.67	1.181	71	45 - 120	
Benzo(b)fluoranthene	1.67	1.233	74	42 - 120	
Benzo(g,h,i)perylene	1.67	1.310	79	38 - 120	
Benzoic acid	1.67	0.6717	40	10 - 150	
Benzo(k)fluoranthene	1.67	1.363	82	42 - 120	
Benzyl alcohol	1.67	1.061	64	43 - 131	
Bis(2-chloroethoxy)methane	1.67	1.229	74	32 - 120	
Bis(2-chloroethyl)ether	1.67	1.211	73	31 - 120	
bis (2-chloroisopropyl) ether	1.67	0.9963	60	32 - 120	
Bis(2-ethylhexyl)phthalate	1.67	0.8965	54	43 - 120	
4-Bromophenyl phenyl ether	1.67	1.045	63	40 - 120	
Butyl benzyl phthalate	1.67	0.8303	50	43 - 133	
Carbazole	1.67	1.306	78	44 - 120	
4-Chloroaniline	1.67	0.9807	59	35 - 120	
4-Chloro-3-methylphenol	1.67	1.438	86	38 - 120	
2-Chloronaphthalene	1.67	1.206	72	34 - 120	
2-Chlorophenol	1.67	1.079	65	32 - 120	
4-Chlorophenyl phenyl ether	1.67	1.178	71	42 - 120	
Chrysene	1.67	1.273	76	43 - 120	
Dibenzo(a,h)anthracene	1.67	1.170	70	32 - 128	
Dibenzofuran	1.67	1.227	74	41 - 120	
1,2-Dichlorobenzene	1.67	1.084	65	33 - 120	
1,3-Dichlorobenzene	1.67	1.077	65	32 - 120	
1,4-Dichlorobenzene	1.67	1.111	67	32 - 120	
3,3'-Dichlorobenzidine	1.67	0.4046	24	39 - 120	J *
2,4-Dichlorophenol	1.67	1.230	74	32 - 120	
Diethyl phthalate	1.67	1.263	76	41 - 122	
2,4-Dimethylphenol	1.67	1.228	74	32 - 120	
Dimethyl phthalate	1.67	1.244	75	55 - 120	
Di-n-butyl phthalate	1.67	1.176	71	46 - 127	
4,6-Dinitro-o-cresol	3.33	1.962	59	27 - 134	
2,4-Dinitrophenol	3.33	1.917	58	10 - 142	
2,4-Dinitrotoluene	1.67	1.309	79	43 - 120	
2,6-Dinitrotoluene	1.67	1.309	79	43 - 120	
Di-n-octyl phthalate	1.67	0.9044	54	40 - 130	

Client: Roux Associates, Inc. Job Number: 490-116812-1

Lab Control Sample - Batch: 490-390996

Method: 8270D
Preparation: 3550C

Lab Sample ID:	LCS 490-390996/2-A	Analysis Batch:	490-391351	Instrument ID:	HP83
Client Matrix:	Solid	Prep Batch:	490-390996	Lab File ID:	120216-008.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/02/2016 1446	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,2-Diphenylhydrazine (as Azobenzene)	1.67	1.836	110	10 - 150	
Fluoranthene	1.67	1.367	82	46 - 120	
Fluorene	1.67	1.287	77	42 - 120	
Hexachlorobenzene	1.67	1.028	62	44 - 120	
Hexachlorobutadiene	1.67	1.103	66	31 - 120	
Hexachlorocyclopentadiene	1.67	0.8235	49	24 - 120	
Hexachloroethane	1.67	1.147	69	33 - 120	
Ideno(1,2,3-cd)pyrene	1.67	1.211	73	41 - 121	
Isophorone	1.67	1.399	84	33 - 120	
1-Methylnaphthalene	1.67	1.181	71	32 - 120	
2-Methylnaphthalene	1.67	1.210	73	28 - 120	
Naphthalene	1.67	1.139	68	32 - 120	
2-Nitroaniline	1.67	0.9789	59	40 - 120	
3-Nitroaniline	1.67	1.019	61	42 - 120	
4-Nitroaniline	1.67	1.074	64	43 - 120	
Nitrobenzene	1.67	1.515	91	26 - 120	
2-Nitrophenol	1.67	0.9073	54	29 - 120	
4-Nitrophenol	3.33	3.647	109	32 - 136	
N-Nitrosodimethylamine	1.67	0.8990	54	10 - 150	
N-Nitrosodi-n-propylamine	1.67	1.285	77	35 - 120	
N-Nitrosodiphenylamine	1.42	1.175	83	52 - 140	
Pentachlorophenol	3.33	1.872	56	44 - 134	
Phenanthrene	1.67	1.285	77	45 - 120	
Phenol	1.67	1.261	76	30 - 120	
Pyrene	1.67	1.248	75	43 - 120	
Pyridine	1.67	1.149	69	20 - 120	
1,2,4-Trichlorobenzene	1.67	1.123	67	29 - 120	
2,4,5-Trichlorophenol	1.67	1.207	72	39 - 120	
2,4,6-Trichlorophenol	1.67	1.193	72	39 - 120	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	70	29 - 120
2-Fluorophenol (Surr)	62	10 - 120
Nitrobenzene-d5 (Surr)	89	27 - 120
Phenol-d5 (Surr)	74	10 - 120
Terphenyl-d14 (Surr)	67	13 - 120
2,4,6-Tribromophenol (Surr)	49	10 - 120

Client: Roux Associates, Inc. Job Number: 490-116812-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-390996

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-116812-1	Analysis Batch:	490-391351	Instrument ID:	HP83
Client Matrix:	Solid	Prep Batch:	490-390996	Lab File ID:	120216-011.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.44 g
Analysis Date:	12/02/2016 1544			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116812-1	Analysis Batch:	490-391351	Instrument ID:	HP83
Client Matrix:	Solid	Prep Batch:	490-390996	Lab File ID:	120216-012.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.11 g
Analysis Date:	12/02/2016 1604			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	79	76	19 - 120	3	50		
Acenaphthylene	81	76	25 - 120	4	50		
Aniline	73	68	10 - 200	7	50		
Anthracene	86	83	28 - 125	3	49		
Benzidine	0	0	5 - 200	NC	50	U *	U *
Benzo(a)anthracene	81	76	23 - 120	5	50		
Benzo(a)pyrene	81	74	15 - 128	7	50		
Benzo(b)fluoranthene	79	75	12 - 133	5	50		
Benzo(g,h,i)perylene	87	83	22 - 120	4	50		
Benzoic acid	55	39	10 - 200	34	50		
Benzo(k)fluoranthene	86	80	28 - 120	6	45		
Benzyl alcohol	73	69	10 - 200	5	50		
Bis(2-chloroethoxy)methane	79	72	24 - 120	8	50		
Bis(2-chloroethyl)ether	71	64	22 - 120	9	50		
bis (2-chloroisopropyl) ether	61	55	20 - 120	9	50		
Bis(2-ethylhexyl)phthalate	80	75	26 - 120	6	50		
4-Bromophenyl phenyl ether	72	69	31 - 120	4	37		
Butyl benzyl phthalate	76	74	24 - 133	1	50		
Carbazole	83	79	25 - 123	4	46		
4-Chloroaniline	70	66	26 - 120	5	50		
4-Chloro-3-methylphenol	92	88	21 - 120	4	49		
2-Chloronaphthalene	79	75	24 - 120	4	50		
2-Chlorophenol	66	62	25 - 120	6	50		
4-Chlorophenyl phenyl ether	80	75	26 - 120	6	50		
Chrysene	84	75	20 - 120	10	49		
Dibenzo(a,h)anthracene	80	76	12 - 128	5	50		
Dibenzofuran	79	76	21 - 120	3	50		
1,2-Dichlorobenzene	68	62	10 - 120	9	50		
1,3-Dichlorobenzene	67	61	10 - 120	8	50		
1,4-Dichlorobenzene	70	62	10 - 120	11	50		
3,3'-Dichlorobenzidine	44	45	10 - 120	2	50		
2,4-Dichlorophenol	82	76	17 - 120	7	50		

Client: Roux Associates, Inc. Job Number: 490-116812-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-390996

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-116812-1	Analysis Batch:	490-391351	Instrument ID:	HP83
Client Matrix:	Solid	Prep Batch:	490-390996	Lab File ID:	120216-011.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.44 g
Analysis Date:	12/02/2016 1544			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116812-1	Analysis Batch:	490-391351	Instrument ID:	HP83
Client Matrix:	Solid	Prep Batch:	490-390996	Lab File ID:	120216-012.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.11 g
Analysis Date:	12/02/2016 1604			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Diethyl phthalate	78	72	29 - 122	6	45		
2,4-Dimethylphenol	81	75	17 - 120	6	50		
Dimethyl phthalate	75	70	30 - 120	6	46		
Di-n-butyl phthalate	82	77	29 - 126	6	49		
4,6-Dinitro-o-cresol	49	45	10 - 134	8	50		
2,4-Dinitrophenol	51	47	10 - 150	7	50		
2,4-Dinitrotoluene	80	78	24 - 121	2	50		
2,6-Dinitrotoluene	80	76	24 - 120	4	50		
Di-n-octyl phthalate	83	78	27 - 130	6	50		
1,2-Diphenylhydrazine (as Azobenzene)	114	107	10 - 200	5	50		
Fluoranthene	94	90	10 - 143	3	50		
Fluorene	87	82	20 - 120	4	50		
Hexachlorobenzene	71	68	25 - 120	3	50		
Hexachlorobutadiene	74	66	10 - 120	10	50		
Hexachlorocyclopentadiene	52	47	10 - 120	7	50		
Hexachloroethane	70	63	10 - 120	9	50		
Ideno(1,2,3-cd)pyrene	82	78	22 - 121	4	50		
Isophorone	91	85	24 - 120	7	50		
1-Methylnaphthalene	78	74	10 - 120	5	50		
2-Methylnaphthalene	80	75	13 - 120	5	50		
Naphthalene	76	70	10 - 120	7	50		
2-Nitroaniline	67	64	31 - 120	3	50		
3-Nitroaniline	68	64	31 - 120	5	49		
4-Nitroaniline	67	68	28 - 120	2	49		
Nitrobenzene	95	88	19 - 120	6	50		
2-Nitrophenol	64	62	23 - 120	3	50		
4-Nitrophenol	110	109	16 - 139	1	45		
N-Nitrosodimethylamine	59	58	10 - 200	0	50		
N-Nitrosodi-n-propylamine	85	78	24 - 120	8	50		
N-Nitrosodiphenylamine	92	85	26 - 150	6	50		
Pentachlorophenol	63	71	19 - 145	13	50		
Phenanthrene	84	80	21 - 122	3	50		

Client: Roux Associates, Inc. Job Number: 490-116812-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-390996

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-116812-1	Analysis Batch:	490-391351	Instrument ID:	HP83
Client Matrix:	Solid	Prep Batch:	490-390996	Lab File ID:	120216-011.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.44 g
Analysis Date:	12/02/2016 1544			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-116812-1	Analysis Batch:	490-391351	Instrument ID:	HP83
Client Matrix:	Solid	Prep Batch:	490-390996	Lab File ID:	120216-012.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.11 g
Analysis Date:	12/02/2016 1604			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1012			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Phenol	76	70	15 - 120	7	50		
Pyrene	87	84	20 - 123	2	50		
Pyridine	69	64	10 - 200	6	50		
1,2,4-Trichlorobenzene	75	70	14 - 120	6	50		
2,4,5-Trichlorophenol	77	78	27 - 120	2	50		
2,4,6-Trichlorophenol	80	76	24 - 122	4	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	77	71	29 - 120
2-Fluorophenol (Surr)	64	59	10 - 120
Nitrobenzene-d5 (Surr)	96	87	27 - 120
Phenol-d5 (Surr)	78	70	10 - 120
Terphenyl-d14 (Surr)	82	78	13 - 120
2,4,6-Tribromophenol (Surr)	58	54	10 - 120

Method Blank - Batch: 490-391021

Method: 8270D
Preparation: 3550C

Lab Sample ID:	MB 490-391021/1-A	Analysis Batch:	490-391291	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-391021	Lab File ID:	120216-29.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/02/2016 1918	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1043			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	0.0320	U	0.0320	0.0670
Acenaphthylene	0.0290	U	0.0290	0.0670
Aniline	0.253	U	0.253	0.670
Anthracene	0.0290	U	0.0290	0.0670
Benzidine	0.204	U	0.204	0.333
Benzo(a)anthracene	0.0300	U	0.0300	0.0670
Benzo(a)pyrene	0.0270	U	0.0270	0.0670
Benzo(b)fluoranthene	0.0280	U	0.0280	0.0670
Benzo(g,h,i)perylene	0.0330	U	0.0330	0.0670
Benzoic acid	0.0600	U	0.0600	0.333
Benzo(k)fluoranthene	0.0270	U	0.0270	0.0670
Benzyl alcohol	0.194	U	0.194	0.333
Bis(2-chloroethoxy)methane	0.200	U	0.200	0.333
Bis(2-chloroethyl)ether	0.213	U	0.213	0.333
bis (2-chloroisopropyl) ether	0.198	U	0.198	0.333
Bis(2-ethylhexyl)phthalate	0.207	U	0.207	0.333
4-Bromophenyl phenyl ether	0.205	U	0.205	0.333
Butyl benzyl phthalate	0.215	U	0.215	0.333
Carbazole	0.207	U	0.207	0.333
4-Chloroaniline	0.227	U	0.227	0.333
4-Chloro-3-methylphenol	0.168	U	0.168	0.333
2-Chloronaphthalene	0.209	U	0.209	0.333
2-Chlorophenol	0.191	U	0.191	0.333
4-Chlorophenyl phenyl ether	0.201	U	0.201	0.333
Chrysene	0.0370	U	0.0370	0.0670
Dibenzo(a,h)anthracene	0.0320	U	0.0320	0.0670
Dibenzofuran	0.210	U	0.210	0.333
1,2-Dichlorobenzene	0.190	U	0.190	0.333
1,3-Dichlorobenzene	0.190	U	0.190	0.333
1,4-Dichlorobenzene	0.196	U	0.196	0.333
3,3'-Dichlorobenzidine	0.204	U	0.204	0.670
2,4-Dichlorophenol	0.175	U	0.175	0.333
Diethyl phthalate	0.212	U	0.212	0.333
2,4-Dimethylphenol	0.335	U	0.335	0.670
Dimethyl phthalate	0.207	U	0.207	0.333
Di-n-butyl phthalate	0.211	U	0.211	0.333
4,6-Dinitro-o-cresol	0.229	U	0.229	0.333
2,4-Dinitrophenol	0.251	U	0.251	0.333
2,4-Dinitrotoluene	0.208	U	0.208	0.333
2,6-Dinitrotoluene	0.223	U	0.223	0.333
Di-n-octyl phthalate	0.178	U	0.178	0.333
1,2-Diphenylhydrazine (as Azobenzene)	0.234	U	0.234	0.333
Fluoranthene	0.0340	U	0.0340	0.0670
Fluorene	0.0290	U	0.0290	0.0670
Hexachlorobenzene	0.250	U	0.250	0.333

Client: Roux Associates, Inc. Job Number: 490-116812-1

Method Blank - Batch: 490-391021

Method: 8270D
Preparation: 3550C

Lab Sample ID:	MB 490-391021/1-A	Analysis Batch:	490-391291	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-391021	Lab File ID:	120216-29.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/02/2016 1918	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1043			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Hexachlorobutadiene	0.167	U	0.167	0.333
Hexachlorocyclopentadiene	0.150	U	0.150	0.333
Hexachloroethane	0.181	U	0.181	0.333
Ideno(1,2,3-cd)pyrene	0.0290	U	0.0290	0.0670
Isophorone	0.188	U	0.188	0.333
1-Methylnaphthalene	0.0280	U	0.0280	0.0670
2-Methylnaphthalene	0.0260	U	0.0260	0.0670
Naphthalene	0.0290	U	0.0290	0.0670
2-Nitroaniline	0.207	U	0.207	0.333
3-Nitroaniline	0.230	U	0.230	0.670
4-Nitroaniline	0.238	U	0.238	0.670
Nitrobenzene	0.201	U	0.201	0.333
2-Nitrophenol	0.243	U	0.243	0.333
4-Nitrophenol	0.382	U	0.382	0.670
N-Nitrosodimethylamine	0.0200	U	0.0200	0.333
N-Nitrosodi-n-propylamine	0.194	U	0.194	0.333
N-Nitrosodiphenylamine	0.0530	U	0.0530	0.333
Pentachlorophenol	0.266	U	0.266	0.670
Phenanthrene	0.0340	U	0.0340	0.0670
Phenol	0.203	U	0.203	0.333
Pyrene	0.0340	U	0.0340	0.0670
Pyridine	0.199	U	0.199	0.670
1,2,4-Trichlorobenzene	0.181	U	0.181	0.333
2,4,5-Trichlorophenol	0.218	U	0.218	0.333
2,4,6-Trichlorophenol	0.192	U	0.192	0.333

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	85	29 - 120
2-Fluorophenol (Surr)	54	10 - 120
Nitrobenzene-d5 (Surr)	84	27 - 120
Phenol-d5 (Surr)	64	10 - 120
Terphenyl-d14 (Surr)	98	13 - 120
2,4,6-Tribromophenol (Surr)	40	10 - 120

Client: Roux Associates, Inc. Job Number: 490-116812-1

Lab Control Sample - Batch: 490-391021

Method: 8270D
Preparation: 3550C

Lab Sample ID:	LCS 490-391021/2-A	Analysis Batch:	490-391291	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-391021	Lab File ID:	120216-30.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/02/2016 1936	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1043			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	1.67	1.330	80	36 - 120	
Acenaphthylene	1.67	1.342	80	38 - 120	
Aniline	1.67	1.254	75	10 - 150	
Anthracene	1.67	1.395	84	46 - 124	
Benzidine	1.67	0.3109	19	10 - 150	J
Benzo(a)anthracene	1.67	1.406	84	45 - 120	
Benzo(a)pyrene	1.67	1.391	83	45 - 120	
Benzo(b)fluoranthene	1.67	1.386	83	42 - 120	
Benzo(g,h,i)perylene	1.67	1.514	91	38 - 120	
Benzoic acid	1.67	1.000	60	10 - 150	
Benzo(k)fluoranthene	1.67	1.489	89	42 - 120	
Benzyl alcohol	1.67	1.288	77	43 - 131	
Bis(2-chloroethoxy)methane	1.67	1.212	73	32 - 120	
Bis(2-chloroethyl)ether	1.67	1.187	71	31 - 120	
bis (2-chloroisopropyl) ether	1.67	1.154	69	32 - 120	
Bis(2-ethylhexyl)phthalate	1.67	1.430	86	43 - 120	
4-Bromophenyl phenyl ether	1.67	1.409	85	40 - 120	
Butyl benzyl phthalate	1.67	1.508	90	43 - 133	
Carbazole	1.67	1.384	83	44 - 120	
4-Chloroaniline	1.67	1.300	78	35 - 120	
4-Chloro-3-methylphenol	1.67	1.374	82	38 - 120	
2-Chloronaphthalene	1.67	1.290	77	34 - 120	
2-Chlorophenol	1.67	1.242	75	32 - 120	
4-Chlorophenyl phenyl ether	1.67	1.309	79	42 - 120	
Chrysene	1.67	1.396	84	43 - 120	
Dibenzo(a,h)anthracene	1.67	1.443	87	32 - 128	
Dibenzofuran	1.67	1.312	79	41 - 120	
1,2-Dichlorobenzene	1.67	1.261	76	33 - 120	
1,3-Dichlorobenzene	1.67	1.213	73	32 - 120	
1,4-Dichlorobenzene	1.67	1.266	76	32 - 120	
3,3'-Dichlorobenzidine	1.67	1.152	69	39 - 120	
2,4-Dichlorophenol	1.67	1.320	79	32 - 120	
Diethyl phthalate	1.67	1.312	79	41 - 122	
2,4-Dimethylphenol	1.67	1.240	74	32 - 120	
Dimethyl phthalate	1.67	1.297	78	55 - 120	
Di-n-butyl phthalate	1.67	1.411	85	46 - 127	
4,6-Dinitro-o-cresol	3.33	1.195	36	27 - 134	
2,4-Dinitrophenol	3.33	0.8992	27	10 - 142	
2,4-Dinitrotoluene	1.67	1.446	87	43 - 120	
2,6-Dinitrotoluene	1.67	1.383	83	43 - 120	
Di-n-octyl phthalate	1.67	1.533	92	40 - 130	

Client: Roux Associates, Inc. Job Number: 490-116812-1

Lab Control Sample - Batch: 490-391021

Method: 8270D
Preparation: 3550C

Lab Sample ID:	LCS 490-391021/2-A	Analysis Batch:	490-391291	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-391021	Lab File ID:	120216-30.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/02/2016 1936	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1043			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,2-Diphenylhydrazine (as Azobenzene)	1.67	1.288	77	10 - 150	
Fluoranthene	1.67	1.406	84	46 - 120	
Fluorene	1.67	1.316	79	42 - 120	
Hexachlorobenzene	1.67	1.462	88	44 - 120	
Hexachlorobutadiene	1.67	1.274	76	31 - 120	
Hexachlorocyclopentadiene	1.67	0.5903	35	24 - 120	
Hexachloroethane	1.67	1.193	72	33 - 120	
Ideno(1,2,3-cd)pyrene	1.67	1.408	84	41 - 121	
Isophorone	1.67	1.212	73	33 - 120	
1-Methylnaphthalene	1.67	1.299	78	32 - 120	
2-Methylnaphthalene	1.67	1.302	78	28 - 120	
Naphthalene	1.67	1.278	77	32 - 120	
2-Nitroaniline	1.67	1.312	79	40 - 120	
3-Nitroaniline	1.67	1.419	85	42 - 120	
4-Nitroaniline	1.67	1.361	82	43 - 120	
Nitrobenzene	1.67	1.235	74	26 - 120	
2-Nitrophenol	1.67	1.289	77	29 - 120	
4-Nitrophenol	3.33	2.442	73	32 - 136	
N-Nitrosodimethylamine	1.67	1.012	61	10 - 150	
N-Nitrosodi-n-propylamine	1.67	1.190	71	35 - 120	
N-Nitrosodiphenylamine	1.42	1.377	97	52 - 140	
Pentachlorophenol	3.33	2.543	76	44 - 134	
Phenanthrene	1.67	1.380	83	45 - 120	
Phenol	1.67	1.305	78	30 - 120	
Pyrene	1.67	1.527	92	43 - 120	
Pyridine	1.67	1.165	70	20 - 120	
1,2,4-Trichlorobenzene	1.67	1.235	74	29 - 120	
2,4,5-Trichlorophenol	1.67	1.443	87	39 - 120	
2,4,6-Trichlorophenol	1.67	1.383	83	39 - 120	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	78	29 - 120
2-Fluorophenol (Surr)	72	10 - 120
Nitrobenzene-d5 (Surr)	76	27 - 120
Phenol-d5 (Surr)	77	10 - 120
Terphenyl-d14 (Surr)	96	13 - 120
2,4,6-Tribromophenol (Surr)	93	10 - 120

Client: Roux Associates, Inc. Job Number: 490-116812-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-391021

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-117018-D-2-B MS	Analysis Batch:	490-391291	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-391021	Lab File ID:	120216-34.D
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	30.08 g
Analysis Date:	12/02/2016 2047			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1044			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117018-D-2-C MSD	Analysis Batch:	490-391291	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-391021	Lab File ID:	120216-35.D
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	30.31 g
Analysis Date:	12/02/2016 2105			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1044			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	90	100	19 - 120	10	50		
Acenaphthylene	88	97	25 - 120	9	50		
Aniline	NC	NC	10 - 200	NC	50	U	U
Anthracene	89	95	28 - 125	6	49		
Benzidine	NC	NC	5 - 200	NC	50	U	U
Benzo(a)anthracene	90	96	23 - 120	6	50		
Benzo(a)pyrene	90	97	15 - 128	7	50		
Benzo(b)fluoranthene	86	94	12 - 133	8	50		
Benzo(g,h,i)perylene	97	105	22 - 120	8	50		
Benzoic acid	89	87	10 - 200	2	50	J	J
Benzo(k)fluoranthene	103	108	28 - 120	4	45		
Benzyl alcohol	NC	NC	10 - 200	NC	50	U	U
Bis(2-chloroethoxy)methane	NC	NC	24 - 120	NC	50	U	U
Bis(2-chloroethyl)ether	NC	NC	22 - 120	NC	50	U	U
bis (2-chloroisopropyl) ether	NC	NC	20 - 120	NC	50	U	U
Bis(2-ethylhexyl)phthalate	NC	NC	26 - 120	NC	50	U	U
4-Bromophenyl phenyl ether	NC	NC	31 - 120	NC	37	U	U
Butyl benzyl phthalate	NC	NC	24 - 133	NC	50	U	U
Carbazole	NC	NC	25 - 123	NC	46	U	U
4-Chloroaniline	NC	NC	26 - 120	NC	50	U	U
4-Chloro-3-methylphenol	NC	NC	21 - 120	NC	49	U	U
2-Chloronaphthalene	NC	NC	24 - 120	NC	50	U	U
2-Chlorophenol	NC	NC	25 - 120	NC	50	U	U
4-Chlorophenyl phenyl ether	NC	NC	26 - 120	NC	50	U	U
Chrysene	86	96	20 - 120	9	49		
Dibenzo(a,h)anthracene	93	102	12 - 128	9	50		
Dibenzofuran	NC	NC	21 - 120	NC	50	U	U
1,2-Dichlorobenzene	NC	NC	10 - 120	NC	50	U	U
1,3-Dichlorobenzene	NC	NC	10 - 120	NC	50	U	U
1,4-Dichlorobenzene	NC	NC	10 - 120	NC	50	U	U
3,3'-Dichlorobenzidine	NC	NC	10 - 120	NC	50	U	U
2,4-Dichlorophenol	NC	NC	17 - 120	NC	50	U	U

Client: Roux Associates, Inc. Job Number: 490-116812-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-391021

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-117018-D-2-B MS	Analysis Batch:	490-391291	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-391021	Lab File ID:	120216-34.D
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	30.08 g
Analysis Date:	12/02/2016 2047			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1044			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117018-D-2-C MSD	Analysis Batch:	490-391291	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-391021	Lab File ID:	120216-35.D
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	30.31 g
Analysis Date:	12/02/2016 2105			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1044			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Diethyl phthalate	NC	NC	29 - 122	NC	45	U	U
2,4-Dimethylphenol	NC	NC	17 - 120	NC	50	U	U
Dimethyl phthalate	NC	NC	30 - 120	NC	46	U	U
Di-n-butyl phthalate	NC	NC	29 - 126	NC	49	U	U
4,6-Dinitro-o-cresol	0	0	10 - 134	NC	50	U *	U *
2,4-Dinitrophenol	0	0	10 - 150	NC	50	U *	U *
2,4-Dinitrotoluene	NC	NC	24 - 121	NC	50	U	U
2,6-Dinitrotoluene	NC	NC	24 - 120	NC	50	U	U
Di-n-octyl phthalate	NC	NC	27 - 130	NC	50	U	U
1,2-Diphenylhydrazine (as Azobenzene)	NC	NC	10 - 200	NC	50	U	U
Fluoranthene	89	94	10 - 143	4	50		
Fluorene	91	97	20 - 120	6	50		
Hexachlorobenzene	NC	NC	25 - 120	NC	50	U	U
Hexachlorobutadiene	NC	NC	10 - 120	NC	50	U	U
Hexachlorocyclopentadiene	0	0	10 - 120	NC	50	U *	U *
Hexachloroethane	NC	NC	10 - 120	NC	50	U	U
Ideno(1,2,3-cd)pyrene	89	99	22 - 121	9	50		
Isophorone	NC	NC	24 - 120	NC	50	U	U
1-Methylnaphthalene	87	98	10 - 120	12	50		
2-Methylnaphthalene	86	94	13 - 120	9	50		
Naphthalene	83	92	10 - 120	9	50		
2-Nitroaniline	NC	NC	31 - 120	NC	50	U	U
3-Nitroaniline	NC	NC	31 - 120	NC	49	U	U
4-Nitroaniline	NC	NC	28 - 120	NC	49	U	U
Nitrobenzene	NC	NC	19 - 120	NC	50	U	U
2-Nitrophenol	NC	NC	23 - 120	NC	50	U	U
4-Nitrophenol	NC	NC	16 - 139	NC	45	U	U
N-Nitrosodimethylamine	57	64	10 - 200	12	50	J	J
N-Nitrosodi-n-propylamine	NC	NC	24 - 120	NC	50	U	U
N-Nitrosodiphenylamine	106	114	26 - 150	7	50	J	J
Pentachlorophenol	95	110	19 - 145	13	50	J	J
Phenanthrene	89	98	21 - 122	9	50		

Client: Roux Associates, Inc. Job Number: 490-116812-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-391021

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-117018-D-2-B MS	Analysis Batch:	490-391291	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-391021	Lab File ID:	120216-34.D
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	30.08 g
Analysis Date:	12/02/2016 2047			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1044			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117018-D-2-C MSD	Analysis Batch:	490-391291	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-391021	Lab File ID:	120216-35.D
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	30.31 g
Analysis Date:	12/02/2016 2105			Final Weight/Volume:	1.00 mL
Prep Date:	12/01/2016 1044			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Phenol	NC	NC	15 - 120	NC	50	U	U
Pyrene	96	101	20 - 123	4	50		
Pyridine	NC	NC	10 - 200	NC	50	U	U
1,2,4-Trichlorobenzene	NC	NC	14 - 120	NC	50	U	U
2,4,5-Trichlorophenol	NC	NC	27 - 120	NC	50	U	U
2,4,6-Trichlorophenol	NC	NC	24 - 122	NC	50	U	U

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	86	95	29 - 120
2-Fluorophenol (Surr)	72	78	10 - 120
Nitrobenzene-d5 (Surr)	78	83	27 - 120
Phenol-d5 (Surr)	80	90	10 - 120
Terphenyl-d14 (Surr)	96	105	13 - 120
2,4,6-Tribromophenol (Surr)	93	108	10 - 120

Client: Roux Associates, Inc. Job Number: 490-116812-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-390570

Method: 6010C
Preparation: 3051A

MS Lab Sample ID:	490-116534-D-1-G MS ^5	Analysis Batch:	490-391777	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-390570	Lab File ID:	TALS_120316-4B.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	0.525 g
Analysis Date:	12/03/2016 2135			Final Weight/Volume:	100 mL
Prep Date:	11/29/2016 1912				
Leach Date:	N/A				

MSD Lab Sample ID:	490-116534-D-1-H MSD ^5	Analysis Batch:	490-391777	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-390570	Lab File ID:	TALS_120316-4B.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	0.525 g
Analysis Date:	12/03/2016 2150			Final Weight/Volume:	100 mL
Prep Date:	11/29/2016 1912				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aluminum	242	177	75 - 125	6	20	4	4
Antimony	80	89	75 - 125	10	20	J	J
Arsenic	107	112	75 - 125	4	20		
Barium	95	98	75 - 125	3	20		
Beryllium	127	111	75 - 125	13	20	N	
Cadmium	79	88	75 - 125	8	20		
Calcium	1666	-754	75 - 125	20	20	4	4
Chromium	101	104	75 - 125	3	20		
Cobalt	95	101	75 - 125	6	20		
Copper	121	115	75 - 125	4	20		
Iron	430	367	75 - 125	3	20	4	4
Lead	27	119	75 - 125	33	20	N	N
Magnesium	699	-279	75 - 125	26	20	4	4 N
Manganese	150	105	75 - 125	10	20	N	
Nickel	95	99	75 - 125	4	20		
Potassium	154	130	75 - 125	13	20	N	N
Selenium	100	97	75 - 125	3	20		
Silver	88	84	75 - 125	5	20		
Sodium	160	134	75 - 125	17	20	N	N
Thallium	62	67	75 - 125	7	20	N	N
Vanadium	123	108	75 - 125	13	20		
Zinc	-186	-58	75 - 125	21	20	4	4 N

Client: Roux Associates, Inc. Job Number: 490-116812-1

Method Blank - Batch: 490-390982

Method: 6010C
Preparation: 3051A

Lab Sample ID:	MB 490-390982/1-A	Analysis Batch:	490-391777	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-390982	Lab File ID:	TALS_120316-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.508 g
Analysis Date:	12/03/2016 2054	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 0947				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	9.84	U	9.84	19.7
Antimony	0.984	U	0.984	9.84
Arsenic	1.18	U	1.18	1.97
Barium	0.984	U	0.984	1.97
Beryllium	0.197	U	0.197	0.984
Cadmium	0.0984	U	0.0984	0.984
Calcium	98.4	U	98.4	197
Chromium	0.886	U	0.886	0.984
Cobalt	0.984	U	0.984	1.97
Copper	1.08	U	1.08	1.97
Iron	19.7	U	19.7	39.4
Lead	0.492	U	0.492	0.984
Magnesium	98.4	U	98.4	197
Manganese	0.984	U	0.984	2.95
Nickel	0.591	U	0.591	1.97
Potassium	98.4	U	98.4	197
Selenium	1.08	U	1.08	1.97
Silver	0.394	U	0.394	0.984
Sodium	128	U	128	197
Thallium	0.591	U	0.591	1.97
Vanadium	1.97	U	1.97	9.84
Zinc	4.92	U	4.92	9.84

Client: Roux Associates, Inc. Job Number: 490-116812-1

Lab Control Sample - Batch: 490-390982

Method: 6010C
Preparation: 3051A

Lab Sample ID:	LCS 490-390982/2-A	Analysis Batch:	490-391777	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-390982	Lab File ID:	TALS_120316-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.499 g
Analysis Date:	12/03/2016 2059	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 0947				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	802	823.4	103	80 - 120	
Antimony	40.1	38.90	97	80 - 120	
Arsenic	20.0	19.98	100	80 - 120	
Barium	802	839.9	105	80 - 120	
Beryllium	20.0	21.06	105	80 - 120	
Cadmium	20.0	20.42	102	80 - 120	
Calcium	2000	2060	103	80 - 120	
Chromium	80.2	86.65	108	80 - 120	
Cobalt	200	212.8	106	80 - 120	
Copper	100	102.4	102	80 - 120	
Iron	401	426.7	106	80 - 120	
Lead	20.0	21.48	107	80 - 120	
Magnesium	2000	2032	101	80 - 120	
Manganese	200	206.6	103	80 - 120	
Nickel	200	214.8	107	80 - 120	
Potassium	2000	2052	102	80 - 120	
Selenium	20.0	20.06	100	80 - 120	
Silver	20.0	17.01	85	80 - 120	
Sodium	2000	2078	104	80 - 120	
Thallium	120	122.5	102	80 - 120	
Vanadium	200	206.8	103	80 - 120	
Zinc	200	214.4	107	80 - 120	

Client: Roux Associates, Inc. Job Number: 490-116812-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-390982

Method: 6010C
Preparation: 3051A

MS Lab Sample ID:	490-116774-A-19-C MS ^5	Analysis Batch:	490-391777	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-390982	Lab File ID:	TALS_120316-4B.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	0.497 g
Analysis Date:	12/03/2016 2120			Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 0947				
Leach Date:	N/A				

MSD Lab Sample ID:	490-116774-A-19-D MSD ^	Analysis Batch:	490-391777	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-390982	Lab File ID:	TALS_120316-4B.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	0.521 g
Analysis Date:	12/03/2016 2125			Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 0947				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aluminum	348	582	75 - 125	13	20	4	4
Antimony	87	71	75 - 125	25	20	J	J N
Arsenic	83	98	75 - 125	6	20		
Barium	94	94	75 - 125	5	20		
Beryllium	96	100	75 - 125	0	20		
Cadmium	91	87	75 - 125	7	20		
Calcium	94	95	75 - 125	3	20		
Chromium	97	100	75 - 125	2	20		
Cobalt	95	97	75 - 125	3	20		
Copper	95	100	75 - 125	0	20		
Iron	-281	1128	75 - 125	29	20	4	4 N
Lead	111	131	75 - 125	6	20		N
Magnesium	109	116	75 - 125	1	20		
Manganese	34	202	75 - 125	25	20	4	4 N
Nickel	97	102	75 - 125	1	20		
Potassium	112	118	75 - 125	0	20		
Selenium	71	77	75 - 125	4	20	N	
Silver	67	66	75 - 125	7	20	N	N
Sodium	98	100	75 - 125	2	20		
Sodium	98	-6	75 - 125	17	20		4
Sodium	-185	100	75 - 125	2	20	4	
Sodium	-185	-6	75 - 125	17	20	4	4
Thallium	96	94	75 - 125	6	20		
Vanadium	92	97	75 - 125	1	20		
Zinc	102	100	75 - 125	5	20		

Client: Roux Associates, Inc. Job Number: 490-116812-1

Method Blank - Batch: 490-391113

Method: 6010C
Preparation: 3051A

Lab Sample ID:	MB 490-391113/1-A	Analysis Batch:	490-391445	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-391113	Lab File ID:	TALS_12022016-4A.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.506 g
Analysis Date:	12/02/2016 1238	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 1414				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	9.88	U	9.88	19.8
Antimony	0.988	U	0.988	9.88
Arsenic	1.19	U	1.19	1.98
Barium	0.988	U	0.988	1.98
Beryllium	0.198	U	0.198	0.988
Cadmium	0.0988	U	0.0988	0.988
Calcium	98.8	U	98.8	198
Chromium	0.889	U	0.889	0.988
Cobalt	0.988	U	0.988	1.98
Copper	1.09	U	1.09	1.98
Iron	19.8	U	19.8	39.5
Lead	0.494	U	0.494	0.988
Magnesium	98.8	U	98.8	198
Manganese	0.988	U	0.988	2.96
Nickel	0.593	U	0.593	1.98
Potassium	98.8	U	98.8	198
Selenium	1.09	U	1.09	1.98
Silver	0.395	U	0.395	0.988
Sodium	128	U	128	198
Thallium	0.593	U	0.593	1.98
Vanadium	1.98	U	1.98	9.88
Zinc	4.94	U	4.94	9.88

Client: Roux Associates, Inc. Job Number: 490-116812-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-391113

Method: 6010C
Preparation: 3051A

LCS Lab Sample ID:	LCS 490-391113/2-A	Analysis Batch:	490-391445	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-391113	Lab File ID:	TALS_12022016-4A.as
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.523 g
Analysis Date:	12/02/2016 1243	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 1414				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-391113/3-A	Analysis Batch:	490-391445	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-391113	Lab File ID:	TALS_12022016-4A.as
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.496 g
Analysis Date:	12/02/2016 1249	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 1414				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Aluminum	100	99	80 - 120	4	20		
Antimony	110	108	80 - 120	4	20		
Arsenic	95	92	80 - 120	2	20		
Barium	102	101	80 - 120	4	20		
Beryllium	101	100	80 - 120	4	20		
Cadmium	99	98	80 - 120	4	20		
Calcium	102	100	80 - 120	3	20		
Chromium	112	110	80 - 120	3	20		
Cobalt	101	100	80 - 120	4	20		
Copper	101	99	80 - 120	4	20		
Iron	104	102	80 - 120	4	20		
Lead	101	104	80 - 120	8	20		
Magnesium	101	99	80 - 120	4	20		
Manganese	105	103	80 - 120	3	20		
Nickel	101	99	80 - 120	4	20		
Potassium	100	99	80 - 120	4	20		
Selenium	97	96	80 - 120	4	20		
Silver	103	101	80 - 120	3	20		
Sodium	101	101	80 - 120	6	20		
Thallium	97	95	80 - 120	3	20		
Vanadium	102	101	80 - 120	4	20		
Zinc	97	95	80 - 120	4	20		

Client: Roux Associates, Inc. Job Number: 490-116812-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-391113

Method: 6010C
Preparation: 3051A

MS Lab Sample ID:	490-117084-B-1-B MS	Analysis Batch:	490-391445	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-391113	Lab File ID:	TALS_12022016-4A.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.496 g
Analysis Date:	12/02/2016 1330			Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 1414				
Leach Date:	N/A				

MSD Lab Sample ID:	490-117084-B-1-C MSD	Analysis Batch:	490-391445	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-391113	Lab File ID:	TALS_12022016-4A.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.518 g
Analysis Date:	12/02/2016 1335			Final Weight/Volume:	100 mL
Prep Date:	12/01/2016 1414				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aluminum	359	459	75 - 125	9	20	4	4
Antimony	110	106	75 - 125	8	20		
Arsenic	93	91	75 - 125	6	20		
Barium	102	98	75 - 125	8	20		
Beryllium	100	97	75 - 125	7	20		
Cadmium	98	95	75 - 125	8	20		
Calcium	113	108	75 - 125	6	20		
Chromium	110	106	75 - 125	8	20		
Cobalt	100	97	75 - 125	8	20		
Copper	101	97	75 - 125	7	20		
Iron	238	281	75 - 125	5	20	N	N
Lead	126	107	75 - 125	6	20	N	
Magnesium	104	103	75 - 125	5	20		
Manganese	102	97	75 - 125	7	20		
Nickel	99	96	75 - 125	7	20		
Potassium	106	104	75 - 125	6	20		
Selenium	95	89	75 - 125	10	20		
Silver	98	94	75 - 125	8	20		
Sodium	99	97	75 - 125	7	20		
Thallium	95	92	75 - 125	8	20		
Vanadium	102	99	75 - 125	7	20		
Zinc	98	95	75 - 125	5	20		

Client: Roux Associates, Inc. Job Number: 490-116812-1

Method Blank - Batch: 490-392116

Method: 7471B
Preparation: 7471B

Lab Sample ID:	MB 490-392116/1-A	Analysis Batch:	490-392751	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-392116	Lab File ID:	12716-5bLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.624 g
Analysis Date:	12/08/2016 0748	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1304				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0288	U	0.0288	0.0962

Lab Control Sample - Batch: 490-392116

Method: 7471B
Preparation: 7471B

Lab Sample ID:	LCS 490-392116/2-A	Analysis Batch:	490-392751	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-392116	Lab File ID:	12716-5bLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.625 g
Analysis Date:	12/08/2016 0751	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1304				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.160	0.1767	110	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392116

Method: 7471B
Preparation: 7471B

MS Lab Sample ID:	490-116812-1	Analysis Batch:	490-392751	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-392116	Lab File ID:	12716-5bLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.607 g
Analysis Date:	12/07/2016 1514			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1304				
Leach Date:	N/A				

MSD Lab Sample ID:	490-116812-1	Analysis Batch:	490-392751	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-392116	Lab File ID:	12716-5bLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.596 g
Analysis Date:	12/07/2016 1517			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1304				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	96	95	80 - 120	1	20		

Client: Roux Associates, Inc. Job Number: 490-116812-1

Method Blank - Batch: 490-392118

Method: 7471B
Preparation: 7471B

Lab Sample ID:	MB 490-392118/1-A	Analysis Batch:	490-392751	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-392118	Lab File ID:	12716-5bLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.599 g
Analysis Date:	12/07/2016 1352	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1307				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0301	U	0.0301	0.100

Lab Control Sample - Batch: 490-392118

Method: 7471B
Preparation: 7471B

Lab Sample ID:	LCS 490-392118/2-A	Analysis Batch:	490-392751	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-392118	Lab File ID:	12716-5bLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.625 g
Analysis Date:	12/07/2016 1355	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1307				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.160	0.1452	91	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392118

Method: 7471B
Preparation: 7471B

MS Lab Sample ID:	490-116812-12	Analysis Batch:	490-392751	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-392118	Lab File ID:	12716-5bLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.624 g
Analysis Date:	12/07/2016 1401			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1307				
Leach Date:	N/A				

MSD Lab Sample ID:	490-116812-12	Analysis Batch:	490-392751	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-392118	Lab File ID:	12716-5bLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.625 g
Analysis Date:	12/07/2016 1403			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1307				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	85	86	80 - 120	2	20		

Client: Roux Associates, Inc. Job Number: 490-116812-1

Duplicate - Batch: 490-390299

Method: Moisture
Preparation: N/A

Lab Sample ID:	490-116812-2	Analysis Batch:	490-390299	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/29/2016 0945	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	86.9	85.1	2	20	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM


490-116812 Chain of Custody

Cooler Received/Opened On 11/25/2016 @ 1530

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 6763 7769 7536 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 31470366 pH Strip Lot HC682547 Chlorine Strip Lot 0414164F

2. Temperature of rep. sample or temp blank when opened: 5.8 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...(NA)

4. Were custody seals on outside of cooler? (YES)...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? (YES)...NO...NA

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) EA

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? (YES)...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...(NO)...NA

14. Was there a Trip Blank in this cooler? (YES)...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (intial) EA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..(NA)

b. Did the bottle labels indicate that the correct preservatives were used (YES)..NO...NA

16. Was residual chlorine present? YES...NO..(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) EA

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) EM

I certify that I attached a label with the unique LIMS number to each container (intial) EM

21. Were there Non-Conformance issues at login? YES..(NO) Was a NCM generated? YES..(NO)...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 12/15/15

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER in ENVIRONMENTAL TESTING

Client Information	Sampler: A. Marocci	Lab PM: Huckaba, Jennifer	Carrier Tracking No(s):	COC No: 490-60038-19378.1
Client Contact: Matthew Casey	Phone: 585-721-1196	E-Mail: jennifer.huckaba@testamericainc.com		Page: Page 1 of 2
Company: Roux Associates, Inc.				Job #:

Address: 12 Gill St., Suite 4700	Due Date Requested:
City: Woburn	TAT Requested (days): Standard
State, Zip: MA, 01801	
Phone:	PO #: 0172.0210M009
Email: mcasey@rouxinc.com	WO #:
Project Name: Roux - Olean, NY	Project #: 49005538
Site: 350/351 Franklin Street	SSOW#:

Analysis Requested

Loc: 490
116812

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Standard 8260 List + TICs	8270D - Standard List	6010C, 7471B - TAL METALS	DRY WEIGHT	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
END 436	11/23/16	0800	G	S	N	N	X	X	X	X	4	
END 440	11/23/16	0830	G	S	N	N	X	X	X	X	4	
END 439	11/23/16	0830	G	S	N	N	X	X	X	X	4	
END 435	11/23/16	0800	G	S	N	N	X	X	X	X	4	
TP-312-6-7	11/23/16	1015	G	S	N	N	X	X	X	X	4	
END-438	11/23/16	0815	G	S	N	N	X	X	X	X	4	
TP-311-6-7	11/23/16	1000	G	S	N	N	X	X	X	X	4	
TP-310-6-7	11/23/16	0930	G	S	N	N	X	X	X	X	4	
TP-309-6-7	11/23/16	0900	G	S	N	N	X	X	X	X	4	
END-441	11/23/16	0945	G	S	N	N	X	X	X	X	4	
TRIP BLANK	—	—	LAB	LAB							2	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) CAT A

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	11/23/16 1600	ROUX	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11-29-16 930	Company CHN

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 5.8

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: A. Marsocci	Lab PM: Huckaba, Jennifer	Carrier Tracking No(s):	COC No: 490-60038-19378.1
Client Contact: Matthew Casey	Phone: 585-721-1196	E-Mail: jennifer.huckaba@testamericainc.com		Page: Page 2 of 2
Company: Roux Associates, Inc.		Analysis Requested		Job #:

Address: 12 Gill St., Suite 4700	Due Date Requested:		Preservation Codes:
City: Woburn	TAT Requested (days): Standard		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: MA, 01801	PO #: 0172.0210M009		
Phone:	WO #:		Other:
Email: mcasey@rouxinc.com	Project #: 49005538		
Project Name: Roux - Olean, NY	SSOW#:		
Site: 350/351 Franklin St.			

Loc: 490
116812

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Standard 8260 List + TICs	8270D - Standard List	6010C, 7471B - TAL METALS	DRY WEIGHT	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
END-442	11/23/16	0945	G	S	N	N	✓	✓	✓	✓	4	
END-437	11/23/16	0815	G	S	N	N	✓	✓	✓	✓	4	

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) CAT A	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	11/23/16	ROUX	FEDEX		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 11-29-830	Company AN

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 5.4

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM


490-116812 Chain of Custody

Cooler Received/Opened On 11/25/2016 @ 1530 (11.25.16 EMA)

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 6763 7769 7536 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 31470366 pH Strip Lot HC483547 Chlorine Strip Lot 0414164F

2. Temperature of rep. sample or temp blank when opened: 5.8 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...(NA)

4. Were custody seals on outside of cooler? (YES)...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? (YES)...NO...NA

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) EMA

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? (YES)...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...(NO)...NA

14. Was there a Trip Blank in this cooler? (YES)...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (intial) EMA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..(NA)

b. Did the bottle labels indicate that the correct preservatives were used (YES)..NO...NA

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) EMA

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) EMA

I certify that I attached a label with the unique LIMS number to each container (intial) EMA

21. Were there Non-Conformance issues at login? YES..(NO) Was a NCM generated? YES..(NO)...#_____

BIS = Broken in shipment

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: A. Marocci	Lab PM: Huckaba, Jennifer	Carrier Tracking No(s):	COC No: 490-60038-19378.1
Client Contact: Matthew Casey	Phone: 585-721-1196	E-Mail: jennifer.huckaba@testamericainc.com		Page: Page 1 of 2
Company: Roux Associates, Inc.				Job #:

Address: 12 Gill St., Suite 4700	Due Date Requested:	Analysis Requested
City: Woburn	TAT Requested (days): Standard	
State, Zip: MA, 01801		
Phone:	PO #: 0172.0210M009	
Email: mcasey@rouxinc.com	WO #:	
Project Name: Roux - Olean, NY	Project #: 49005538	
Site: 350/351 Franklin Street	SSOW#:	

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Loc: 490
116812

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Standard 8260 List + TICs	8270D - Standard List	6010C, 7471B - TAL METALS	DRY WEIGHT	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
END 436	11/23/16	0800	G	S	N	N	X	X	X	X	4	
END 440	11/23/16	0830	G	S	N	N	X	X	X	X	4	
END 439	11/23/16	0830	G	S	N	N	X	X	X	X	4	
END 435	11/23/16	0800	G	S	N	N	X	X	X	X	4	
TP-312-6-7	11/23/16	1015	G	S	N	N	X	X	X	X	4	
END-438	11/23/16	0815	G	S	N	N	X	X	X	X	4	
TP-311-6-7	11/23/16	1000	G	S	N	N	X	X	X	X	4	
TP-310-6-7	11/23/16	0930	G	S	N	N	X	X	X	X	4	
TP-309-6-7	11/23/16	0900	G	S	N	N	X	X	X	X	4	
END-441	11/23/16	0945	G	S	N	N	X	X	X	X	4	
TRIP BLANK	—	—	LAB	LAB							2	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) CAT A

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	11/23/16 1600	ROUX	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11-29-16 930	Company CAN

Custody Seals Intact: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 5.9

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: A. Marsocci	Lab PM: Huckaba, Jennifer	Carrier Tracking No(s):	COC No: 490-60038-19378.1
Client Contact: Matthew Casey	Phone: 585-721-1196	E-Mail: jennifer.huckaba@testamericainc.com		Page: Page 2 of 2
Company: Roux Associates, Inc.		Analysis Requested		Job #:
Address: 12 Gill St., Suite 4700	Due Date Requested:			Preservation Codes:
City: Woburn	TAT Requested (days): Standard			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: MA, 01801	PO #: 0172.0210M009			
Phone:	WO #:			
Email: mcasey@rouxinc.com	Project #: 49005538			Other:
Project Name: Roux - Olean, NY	SSOW#:			
Site: 350/351 Franklin St.				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Standard 8260 List + TICs	8270D - Standard List	6010C, 7471B - TAL METALS	DRY WEIGHT	Loc: 490 116812	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
END-442	11/23/16	0945	G	S	N	N	✓	✓	✓	✓		4	
END-437	11/23/16	0815	G	S	N	N	✓	✓	✓	✓		4	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) CAT A

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Brian Madden	11/23/16	ROUX	FEDEX		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11-28-830	Company AN

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 5.4

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 490-116812-1

Login Number: 116812
List Number: 1
Creator: Abernathy, Eric

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

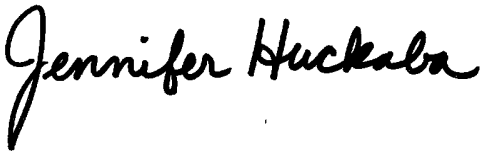
Job Number: 490-117346-1

Job Description: 350/351 Franklin Street

Contract Number: A2288121

For:
Roux Associates, Inc.
12 Gill St., Suite 4700
Woburn, MA 01801

Attention: Matthew Casey



Approved for release.
Jennifer Huckaba
Project Manager II
12/20/2016 1:19 PM

Jennifer Huckaba, Project Manager II
2960 Foster Creighton Drive, Nashville, TN, 37204
(615)301-5042
jennifer.huckaba@testamericainc.com
12/20/2016

The laboratory is only responsible for the certified testing and is not responsible for the sample integrity prior to laboratory receipt.

Table of Contents

Job Narrative
490-117346-1

Comments
PAGE 1 OF COC ONLY. Other 2 pages reported separately due to size.

Receipt
The samples were received on 12/3/2016 9:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.7º C and 4.8º C.

GC/MS VOA
Method(s) 8260C: Internal standard responses were outside of acceptance limits for the following samples: END 447 (490-117346-1), END 450 (490-117346-2), END 445 (490-117346-3), END 452 (490-117346-7), END 446 (490-117346-8), END 444 (490-117346-9), TP-313-6-7 (490-117346-10) and (490-117346-A-1-B MSD). The samples show evidence of matrix interference.

Method(s) 8260C: Surrogate recovery for the following samples was outside control limits: END 447 (490-117346-1), END 450 (490-117346-2), END 445 (490-117346-3), END 443 (490-117346-4), END 449 (490-117346-5), END 448 (490-117346-6), END 452 (490-117346-7), END 446 (490-117346-8), END 444 (490-117346-9), TP-313-6-7 (490-117346-10), (490-117346-A-1-A MS) and (490-117346-A-1-B MSD), (490-117346-A-4-C MS) and (490-117346-A-4-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260C: The following samples were diluted due to the nature of the sample matrix: END 447 (490-117346-1), END 450 (490-117346-2), END 445 (490-117346-3), END 443 (490-117346-4), END 448 (490-117346-6), END 446 (490-117346-8), END 444 (490-117346-9) and TP-313-6-7 (490-117346-10). Elevated reporting limits (RLs) are provided. The sodium bisulfate vials failed internal standards due to poor purging samples.

Method(s) 8260C: Surrogate recovery for the following samples was outside control limits(490-117346-A-29-A MS) and (490-117346-A-29-B MS) (490-117346-A-4-C MS) and (490-117346-A-4-D MSD).. Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260C: Internal standard responses were outside of acceptance limits for the following samples: END 443 (490-117346-4), (490-117346-A-4-C MS) and (490-117346-A-4-D MSD). The sample(s) shows evidence of matrix interference.

Method(s) 8260C: The method blank for analytical batch 490-392689 contained 1,2,3-Trichlorobenzene above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-analysis of samples was not performed.

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 490-392689 recovered outside control limits for the following analytes: Vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 490-392689 was unable to be analyzed due to an instrument failure.

Method(s) 8260C: The method blank for analytical batch 490-392216 contained 1,2,3-Trichlorobenzene above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-analysis of samples was not performed.

Method(s) 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 490-391971 recovered outside control limits for the following analytes: Vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 490-393067 recovered outside control limits for the following analytes: Vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: Surrogate recovery for the following sample was outside control limits: END 448 (490-117346-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: TP-313-6-7 (490-117346-10). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 490-392458 and 490-392789 and analytical batch 490-394282 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 490-392789 and analytical batch 490-393758 recovered

outside control limits for the following analytes: 4-Nitrophenol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 490-392789 and analytical batch 490-393758 recovered outside control limits for 4,6-Dinitro-2-methylphenol and Hexachlorocyclopentadiene but within marginal exceedance. These results have been reported and qualified.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 490-393758 recovered above the upper control limit for 4-Nitrophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCVIS 490-393758/3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010C: The method blank for preparation batch 490-392126 and analytical batch 490-392352 contained Selenium and Thallium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

The laboratory is only responsible for the certified testing and is not responsible for the sample integrity prior to laboratory receipt.

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117346-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117346-1	**END 447**					
Benzene		0.242		0.00176	mg/Kg	8260C
2-Butanone (MEK)		0.0343	J	0.0441	mg/Kg	8260C
Carbon disulfide		0.00333	J	0.00441	mg/Kg	8260C
Ethylbenzene		0.0580		0.00176	mg/Kg	8260C
Isopropylbenzene		1.81		0.113	mg/Kg	8260C
Methyl tert butyl ether		0.000967	J	0.00176	mg/Kg	8260C
m,p-Xylene		13.2		0.169	mg/Kg	8260C
Naphthalene		0.825		0.282	mg/Kg	8260C
n-Butylbenzene		1.69		0.113	mg/Kg	8260C
N-Propylbenzene		2.06		0.113	mg/Kg	8260C
o-Xylene		0.107	J	0.113	mg/Kg	8260C
p-Isopropyltoluene		0.147		0.113	mg/Kg	8260C
sec-Butylbenzene		1.02		0.113	mg/Kg	8260C
tert-Butylbenzene		0.103	J	0.113	mg/Kg	8260C
1,2,4-Trimethylbenzene		18.7		0.113	mg/Kg	8260C
1,3,5-Trimethylbenzene		12.2		0.113	mg/Kg	8260C
Xylenes (total)		13.3		0.169	mg/Kg	8260C
Fluorene		0.0717	J	0.0795	mg/Kg	8270D
1-Methylnaphthalene		0.500		0.0795	mg/Kg	8270D
Naphthalene		0.136		0.0795	mg/Kg	8270D
Phenanthrene		0.158		0.0795	mg/Kg	8270D
Aluminum		9660		24.3	mg/Kg	6010C
Arsenic		6.93		2.43	mg/Kg	6010C
Barium		66.3		2.43	mg/Kg	6010C
Beryllium		0.535	J	1.22	mg/Kg	6010C
Cadmium		0.243	J	1.22	mg/Kg	6010C
Calcium		316		243	mg/Kg	6010C
Chromium		10.9		1.22	mg/Kg	6010C
Cobalt		5.91		2.43	mg/Kg	6010C
Copper		42.9		2.43	mg/Kg	6010C
Iron		16000		48.6	mg/Kg	6010C
Lead		13.9		1.22	mg/Kg	6010C
Magnesium		1920		243	mg/Kg	6010C
Manganese		212		3.65	mg/Kg	6010C
Nickel		14.6		2.43	mg/Kg	6010C
Potassium		330		243	mg/Kg	6010C
Selenium		1.43	J	2.43	mg/Kg	6010C
Vanadium		14.4		12.2	mg/Kg	6010C
Zinc		42.7		12.2	mg/Kg	6010C
Percent Solids		82.9		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117346-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117346-2	**END 450**					
Acetone		0.0839		0.0488	mg/Kg	8260C
Benzene		0.00677		0.00195	mg/Kg	8260C
2-Butanone (MEK)		0.0177	J	0.0488	mg/Kg	8260C
Ethylbenzene		0.00121	J	0.00195	mg/Kg	8260C
Isopropylbenzene		0.0252		0.00195	mg/Kg	8260C
m,p-Xylene		0.0105		0.00390	mg/Kg	8260C
N-Propylbenzene		0.0571	J	0.0976	mg/Kg	8260C
o-Xylene		0.00347		0.00195	mg/Kg	8260C
sec-Butylbenzene		0.0584	J	0.0976	mg/Kg	8260C
Toluene		0.00815		0.00195	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.273		0.0976	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.128		0.0976	mg/Kg	8260C
Xylenes (total)		0.0140		0.00585	mg/Kg	8260C
Aluminum		5850		22.7	mg/Kg	6010C
Arsenic		4.46		2.27	mg/Kg	6010C
Barium		54.0		2.27	mg/Kg	6010C
Beryllium		0.296	J	1.14	mg/Kg	6010C
Cadmium		0.682	J	1.14	mg/Kg	6010C
Calcium		1070		227	mg/Kg	6010C
Chromium		7.32		1.14	mg/Kg	6010C
Cobalt		4.05		2.27	mg/Kg	6010C
Copper		35.4		2.27	mg/Kg	6010C
Iron		12200		45.5	mg/Kg	6010C
Lead		11.9		1.14	mg/Kg	6010C
Magnesium		1570		227	mg/Kg	6010C
Manganese		613		3.41	mg/Kg	6010C
Nickel		11.4		2.27	mg/Kg	6010C
Potassium		486		227	mg/Kg	6010C
Vanadium		11.0	J	11.4	mg/Kg	6010C
Zinc		56.1		11.4	mg/Kg	6010C
Percent Solids		88.2		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117346-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117346-3	**END 445**					
Benzene		0.00760		0.00195	mg/Kg	8260C
2-Butanone (MEK)		0.0319	J	0.0486	mg/Kg	8260C
Isopropylbenzene		0.340		0.00195	mg/Kg	8260C
m,p-Xylene		0.109		0.00389	mg/Kg	8260C
Naphthalene		0.212	J	0.253	mg/Kg	8260C
n-Butylbenzene		0.542		0.101	mg/Kg	8260C
N-Propylbenzene		0.708		0.101	mg/Kg	8260C
o-Xylene		0.0189		0.00195	mg/Kg	8260C
sec-Butylbenzene		0.301		0.101	mg/Kg	8260C
Toluene		0.00351		0.00195	mg/Kg	8260C
1,2,4-Trimethylbenzene		9.04		0.101	mg/Kg	8260C
1,3,5-Trimethylbenzene		4.75		0.101	mg/Kg	8260C
Xylenes (total)		0.128		0.00584	mg/Kg	8260C
Fluorene		0.0567	J	0.0735	mg/Kg	8270D
1-Methylnaphthalene		0.231		0.0735	mg/Kg	8270D
2-Methylnaphthalene		0.330		0.0735	mg/Kg	8270D
Naphthalene		0.0458	J	0.0735	mg/Kg	8270D
Phenanthrene		0.135		0.0735	mg/Kg	8270D
Aluminum		7970		21.8	mg/Kg	6010C
Arsenic		4.70		2.18	mg/Kg	6010C
Barium		34.5		2.18	mg/Kg	6010C
Beryllium		0.414	J	1.09	mg/Kg	6010C
Cadmium		0.762	J	1.09	mg/Kg	6010C
Calcium		294		218	mg/Kg	6010C
Chromium		8.12		1.09	mg/Kg	6010C
Cobalt		7.71		2.18	mg/Kg	6010C
Copper		9.45		2.18	mg/Kg	6010C
Iron		14600		43.6	mg/Kg	6010C
Lead		10.9		1.09	mg/Kg	6010C
Magnesium		1900		218	mg/Kg	6010C
Manganese		115		3.27	mg/Kg	6010C
Nickel		16.2		2.18	mg/Kg	6010C
Potassium		418		218	mg/Kg	6010C
Vanadium		11.8		10.9	mg/Kg	6010C
Zinc		57.3		10.9	mg/Kg	6010C
Percent Solids		89.9		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117346-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117346-4	**END 443**					
Acetone		0.298		0.0467	mg/Kg	8260C
2-Butanone (MEK)		0.0645		0.0467	mg/Kg	8260C
Carbon disulfide		0.0157		0.00467	mg/Kg	8260C
Ethylbenzene		0.00538		0.00187	mg/Kg	8260C
Isopropylbenzene		0.108		0.00187	mg/Kg	8260C
m,p-Xylene		0.0465		0.00374	mg/Kg	8260C
n-Butylbenzene		0.164		0.106	mg/Kg	8260C
N-Propylbenzene		0.239		0.106	mg/Kg	8260C
o-Xylene		0.0275		0.00187	mg/Kg	8260C
sec-Butylbenzene		0.134		0.106	mg/Kg	8260C
Toluene		0.00859		0.00187	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.0739	J	0.106	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.228		0.106	mg/Kg	8260C
Xylenes (total)		0.0740		0.00561	mg/Kg	8260C
1-Methylnaphthalene		0.308		0.0754	mg/Kg	8270D
Phenanthrene		0.386		0.0754	mg/Kg	8270D
Aluminum		5190		22.4	mg/Kg	6010C
Arsenic		6.97		2.24	mg/Kg	6010C
Barium		27.1		2.24	mg/Kg	6010C
Beryllium		0.291	J	1.12	mg/Kg	6010C
Cadmium		0.785	J	1.12	mg/Kg	6010C
Calcium		552		224	mg/Kg	6010C
Chromium		6.23		1.12	mg/Kg	6010C
Cobalt		4.86		2.24	mg/Kg	6010C
Copper		18.5		2.24	mg/Kg	6010C
Iron		13800		44.8	mg/Kg	6010C
Lead		12.5		1.12	mg/Kg	6010C
Magnesium		1570		224	mg/Kg	6010C
Manganese		1010		3.36	mg/Kg	6010C
Nickel		12.4		2.24	mg/Kg	6010C
Potassium		277		224	mg/Kg	6010C
Vanadium		9.06	J	11.2	mg/Kg	6010C
Zinc		67.4		11.2	mg/Kg	6010C
Percent Solids		88.7		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117346-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117346-5	**END 449**					
Acetone		0.0618		0.0464	mg/Kg	8260C
Benzene		0.0165		0.00186	mg/Kg	8260C
2-Butanone (MEK)		0.0122	J	0.0464	mg/Kg	8260C
Carbon disulfide		0.00406	J	0.00464	mg/Kg	8260C
Ethylbenzene		0.00112	J	0.00186	mg/Kg	8260C
Isopropylbenzene		0.00836		0.00186	mg/Kg	8260C
m,p-Xylene		0.00717		0.00371	mg/Kg	8260C
n-Butylbenzene		0.00152	J	0.00186	mg/Kg	8260C
N-Propylbenzene		0.00740		0.00186	mg/Kg	8260C
o-Xylene		0.00236		0.00186	mg/Kg	8260C
p-Isopropyltoluene		0.00233		0.00186	mg/Kg	8260C
sec-Butylbenzene		0.00441		0.00186	mg/Kg	8260C
Toluene		0.00554		0.00186	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.0348		0.00186	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.0167		0.00186	mg/Kg	8260C
Xylenes (total)		0.00953		0.00557	mg/Kg	8260C
Aluminum		7380		22.4	mg/Kg	6010C
Antimony		1.12	J	11.2	mg/Kg	6010C
Arsenic		4.44		2.24	mg/Kg	6010C
Barium		44.6		2.24	mg/Kg	6010C
Beryllium		0.403	J	1.12	mg/Kg	6010C
Cadmium		0.672	J	1.12	mg/Kg	6010C
Calcium		670		224	mg/Kg	6010C
Chromium		8.09		1.12	mg/Kg	6010C
Cobalt		5.49		2.24	mg/Kg	6010C
Copper		51.7		2.24	mg/Kg	6010C
Iron		14700		44.8	mg/Kg	6010C
Lead		16.5		1.12	mg/Kg	6010C
Magnesium		2160		224	mg/Kg	6010C
Manganese		283		3.36	mg/Kg	6010C
Nickel		13.6		2.24	mg/Kg	6010C
Potassium		361		224	mg/Kg	6010C
Vanadium		12.6		11.2	mg/Kg	6010C
Zinc		59.9		11.2	mg/Kg	6010C
Percent Solids		88.9		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117346-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117346-6	**END 448**					
Acetone		0.808		0.0447	mg/Kg	8260C
Benzene		0.210		0.100	mg/Kg	8260C
2-Butanone (MEK)		0.0845		0.0447	mg/Kg	8260C
Carbon disulfide		0.00431	J	0.00447	mg/Kg	8260C
Ethylbenzene		0.0760	J	0.100	mg/Kg	8260C
Isopropylbenzene		2.24		0.100	mg/Kg	8260C
m,p-Xylene		5.08		0.150	mg/Kg	8260C
Naphthalene		0.887		0.250	mg/Kg	8260C
n-Butylbenzene		2.20		0.100	mg/Kg	8260C
N-Propylbenzene		2.94		0.100	mg/Kg	8260C
o-Xylene		0.0947	J	0.100	mg/Kg	8260C
sec-Butylbenzene		1.45		0.100	mg/Kg	8260C
tert-Butylbenzene		0.148		0.100	mg/Kg	8260C
1,2,4-Trimethylbenzene		42.5		1.00	mg/Kg	8260C
1,3,5-Trimethylbenzene		12.2		0.100	mg/Kg	8260C
Xylenes (total)		5.17		0.150	mg/Kg	8260C
2,4-Dichlorophenol		0.315	J	0.369	mg/Kg	8270D
Isophorone		1.21		0.369	mg/Kg	8270D
1-Methylnaphthalene		2.44		0.0742	mg/Kg	8270D
2-Methylnaphthalene		3.49		0.0742	mg/Kg	8270D
Naphthalene		0.973		0.0742	mg/Kg	8270D
Phenanthrene		0.544		0.0742	mg/Kg	8270D
Aluminum		5060		22.3	mg/Kg	6010C
Arsenic		2.76		2.23	mg/Kg	6010C
Barium		33.5		2.23	mg/Kg	6010C
Beryllium		0.356	J	1.11	mg/Kg	6010C
Cadmium		0.779	J	1.11	mg/Kg	6010C
Calcium		541		223	mg/Kg	6010C
Chromium		6.77		1.11	mg/Kg	6010C
Cobalt		4.43		2.23	mg/Kg	6010C
Copper		38.5		2.23	mg/Kg	6010C
Iron		16600		44.5	mg/Kg	6010C
Lead		11.2		1.11	mg/Kg	6010C
Magnesium		1300		223	mg/Kg	6010C
Manganese		2880		3.34	mg/Kg	6010C
Nickel		11.5		2.23	mg/Kg	6010C
Potassium		267		223	mg/Kg	6010C
Selenium		1.38	J B	2.23	mg/Kg	6010C
Vanadium		8.71	J	11.1	mg/Kg	6010C
Zinc		50.1		11.1	mg/Kg	6010C
Percent Solids		89.1		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117346-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117346-7	**END 452**					
Acetone		0.0640		0.0480	mg/Kg	8260C
Benzene		0.00382		0.00192	mg/Kg	8260C
2-Butanone (MEK)		0.0149	J	0.0480	mg/Kg	8260C
Isopropylbenzene		0.0154		0.00192	mg/Kg	8260C
m,p-Xylene		0.00680		0.00384	mg/Kg	8260C
Naphthalene		0.00729		0.00450	mg/Kg	8260C
n-Butylbenzene		0.00385		0.00180	mg/Kg	8260C
N-Propylbenzene		0.0133		0.00180	mg/Kg	8260C
o-Xylene		0.00573		0.00192	mg/Kg	8260C
p-Isopropyltoluene		0.00157	J	0.00180	mg/Kg	8260C
sec-Butylbenzene		0.0114		0.00180	mg/Kg	8260C
tert-Butylbenzene		0.00519		0.00180	mg/Kg	8260C
Toluene		0.00340		0.00192	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.0689		0.00180	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.0219		0.00180	mg/Kg	8260C
Xylenes (total)		0.0125		0.00576	mg/Kg	8260C
Aluminum		5140		22.3	mg/Kg	6010C
Arsenic		2.65		2.23	mg/Kg	6010C
Barium		45.4		2.23	mg/Kg	6010C
Beryllium		0.245	J	1.11	mg/Kg	6010C
Cadmium		0.512	J	1.11	mg/Kg	6010C
Calcium		546		223	mg/Kg	6010C
Chromium		6.05		1.11	mg/Kg	6010C
Cobalt		3.94		2.23	mg/Kg	6010C
Copper		14.7		2.23	mg/Kg	6010C
Iron		10500		44.5	mg/Kg	6010C
Lead		10.4		1.11	mg/Kg	6010C
Magnesium		1350		223	mg/Kg	6010C
Manganese		196		3.34	mg/Kg	6010C
Nickel		10.7		2.23	mg/Kg	6010C
Potassium		277		223	mg/Kg	6010C
Vanadium		8.10	J	11.1	mg/Kg	6010C
Zinc		55.1		11.1	mg/Kg	6010C
Percent Solids		89.5		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117346-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117346-8	**END 446**					
2-Butanone (MEK)		0.0628		0.0444	mg/Kg	8260C
Carbon disulfide		0.00727		0.00444	mg/Kg	8260C
Isopropylbenzene		0.0191		0.00178	mg/Kg	8260C
m,p-Xylene		0.151		0.00356	mg/Kg	8260C
n-Butylbenzene		1.52		0.106	mg/Kg	8260C
o-Xylene		0.0410		0.00178	mg/Kg	8260C
sec-Butylbenzene		0.226		0.106	mg/Kg	8260C
tert-Butylbenzene		0.119		0.106	mg/Kg	8260C
1,2,4-Trimethylbenzene		7.27		0.106	mg/Kg	8260C
1,3,5-Trimethylbenzene		13.1		0.106	mg/Kg	8260C
Xylenes (total)		0.192		0.00533	mg/Kg	8260C
Fluorene		0.0863		0.0743	mg/Kg	8270D
1-Methylnaphthalene		0.548		0.0743	mg/Kg	8270D
Phenanthrene		0.175		0.0743	mg/Kg	8270D
Aluminum		5840		21.9	mg/Kg	6010C
Arsenic		5.07		2.19	mg/Kg	6010C
Barium		26.4		2.19	mg/Kg	6010C
Beryllium		0.350	J	1.09	mg/Kg	6010C
Cadmium		0.612	J	1.09	mg/Kg	6010C
Calcium		485		219	mg/Kg	6010C
Chromium		6.82		1.09	mg/Kg	6010C
Cobalt		4.79		2.19	mg/Kg	6010C
Copper		15.9		2.19	mg/Kg	6010C
Iron		12300		43.7	mg/Kg	6010C
Lead		13.2		1.09	mg/Kg	6010C
Magnesium		1680		219	mg/Kg	6010C
Manganese		923		3.28	mg/Kg	6010C
Nickel		12.5		2.19	mg/Kg	6010C
Potassium		296		219	mg/Kg	6010C
Vanadium		8.09	J	10.9	mg/Kg	6010C
Zinc		44.5		10.9	mg/Kg	6010C
Percent Solids		89.8		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117346-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117346-9	**END 444**					
Acetone		0.206		0.0407	mg/Kg	8260C
2-Butanone (MEK)		0.0435		0.0407	mg/Kg	8260C
Isopropylbenzene		0.0354		0.00163	mg/Kg	8260C
m,p-Xylene		0.0225		0.00326	mg/Kg	8260C
N-Propylbenzene		0.114		0.107	mg/Kg	8260C
o-Xylene		0.0102		0.00163	mg/Kg	8260C
sec-Butylbenzene		0.0587	J	0.107	mg/Kg	8260C
Toluene		0.00234		0.00163	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.0608	J	0.107	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.0803	J	0.107	mg/Kg	8260C
Xylenes (total)		0.0327		0.00489	mg/Kg	8260C
Anthracene		0.0540	J	0.0748	mg/Kg	8270D
1-Methylnaphthalene		0.546		0.0748	mg/Kg	8270D
Phenanthrene		0.540		0.0748	mg/Kg	8270D
Aluminum		5190		21.8	mg/Kg	6010C
Arsenic		4.13		2.18	mg/Kg	6010C
Barium		51.2		2.18	mg/Kg	6010C
Beryllium		0.240	J	1.09	mg/Kg	6010C
Cadmium		0.568	J	1.09	mg/Kg	6010C
Calcium		827		218	mg/Kg	6010C
Chromium		7.27		1.09	mg/Kg	6010C
Cobalt		4.50		2.18	mg/Kg	6010C
Copper		18.5		2.18	mg/Kg	6010C
Iron		11000		43.7	mg/Kg	6010C
Lead		14.9		1.09	mg/Kg	6010C
Magnesium		1610		218	mg/Kg	6010C
Manganese		723		3.28	mg/Kg	6010C
Nickel		12.0		2.18	mg/Kg	6010C
Potassium		447		218	mg/Kg	6010C
Vanadium		9.09	J	10.9	mg/Kg	6010C
Zinc		64.1		10.9	mg/Kg	6010C
Percent Solids		88.0		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117346-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117346-10	**TP-313-6-7**					
Acetone		0.132		0.104	mg/Kg	8260C
Benzene		0.0212		0.00418	mg/Kg	8260C
2-Butanone (MEK)		0.0215	J	0.104	mg/Kg	8260C
m,p-Xylene		0.00908		0.00835	mg/Kg	8260C
o-Xylene		0.00289	J	0.00418	mg/Kg	8260C
Toluene		0.00477		0.00418	mg/Kg	8260C
Xylenes (total)		0.0120	J	0.0125	mg/Kg	8260C
Benzo(g,h,i)perylene		0.330	J	0.648	mg/Kg	8270D
Aluminum		12000		37.2	mg/Kg	6010C
Antimony		7.21	J	18.6	mg/Kg	6010C
Arsenic		23.8		3.72	mg/Kg	6010C
Barium		107		3.72	mg/Kg	6010C
Beryllium		0.893	J	1.86	mg/Kg	6010C
Cadmium		1.34	J	1.86	mg/Kg	6010C
Calcium		7840		372	mg/Kg	6010C
Chromium		37.2		1.86	mg/Kg	6010C
Cobalt		5.21		3.72	mg/Kg	6010C
Copper		100		3.72	mg/Kg	6010C
Iron		16700		74.4	mg/Kg	6010C
Lead		271		1.86	mg/Kg	6010C
Magnesium		8790		372	mg/Kg	6010C
Manganese		73.9		5.58	mg/Kg	6010C
Nickel		21.8		3.72	mg/Kg	6010C
Potassium		1240		372	mg/Kg	6010C
Selenium		2.75	J B	3.72	mg/Kg	6010C
Vanadium		45.8		18.6	mg/Kg	6010C
Zinc		204		18.6	mg/Kg	6010C
Mercury		0.528		0.196	mg/Kg	7471B
Percent Solids		51.2		0.1	%	Moisture
490-117346-11	**TRIP BLANK**					
Methylene Chloride		0.00122	J	0.0100	mg/Kg	8260C

METHOD SUMMARY

Client: Roux Associates, Inc. Job Number: 490-117346-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS	TAL NSH	SW846 8260C	
Closed System Purge & Trap/Field Methanol	TAL NSH		SW846 5035A
Volatile Organic Compounds by GC/MS	TAL NSH	SW846 8260C	
Closed System Purge and Trap	TAL NSH		SW846 5035A
Semivolatile Organic Compounds (GC/MS)	TAL NSH	SW846 8270D	
Ultrasonic Extraction	TAL NSH		SW846 3550C
Metals (ICP)	TAL NSH	SW846 6010C	
Preparation, Metals, Microwave Assisted	TAL NSH		SW846 3051A
Mercury (CVAA)	TAL NSH	SW846 7471B	
Preparation, Mercury	TAL NSH		SW846 7471B
Percent Moisture	TAL NSH	EPA Moisture	

Lab References:

TAL NSH = TestAmerica Nashville

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Roux Associates, Inc. Job Number: 490-117346-1

Method	Analyst	Analyst ID
SW846 8260C	Larsen, Eric	EML
SW846 8270D	Chaiyasit, Thitima 1	T1C
SW846 6010C	Fly, Robyn D	RDF
SW846 6010C	Keller, Kris	KKK
SW846 7471B	Smith, Lauren C	LCS
EPA Moisture	Ali, Blnd A	BAA

SAMPLE SUMMARY

Client: Roux Associates, Inc. Job Number: 490-117346-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
490-117346-1	END 447	Solid	11/28/2016 1500	12/03/2016 0925
490-117346-2	END 450	Solid	11/28/2016 1530	12/03/2016 0925
490-117346-3	END 445	Solid	11/28/2016 1430	12/03/2016 0925
490-117346-4	END 443	Solid	11/28/2016 1400	12/03/2016 0925
490-117346-5	END 449	Solid	11/28/2016 1530	12/03/2016 0925
490-117346-6	END 448	Solid	11/28/2016 1500	12/03/2016 0925
490-117346-7	END 452	Solid	11/28/2016 1600	12/03/2016 0925
490-117346-8	END 446	Solid	11/28/2016 1430	12/03/2016 0925
490-117346-9	END 444	Solid	11/28/2016 1400	12/03/2016 0925
490-117346-10	TP-313-6-7	Solid	11/28/2016 1145	12/03/2016 0925
490-117346-11	Trip Blank	Solid	11/28/2016 0001	12/03/2016 0925

SAMPLE RESULTS

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 447

Lab Sample ID: 490-117346-1 Date Sampled: 11/28/2016 1500
Client Matrix: Solid % Moisture: 17.1 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-391971	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-16.D
Dilution:	1.0			Initial Weight/Volume:	6.835 g
Analysis Date:	12/06/2016 1759			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.00741	U	0.00741	0.0441
Benzene		0.242		0.000591	0.00176
Bromochloromethane		0.000485	U	0.000485	0.00176
Bromodichloromethane		0.000485	U	0.000485	0.00176
Bromoform		0.000485	U	0.000485	0.00176
Bromomethane		0.00106	U	0.00106	0.00176
2-Butanone (MEK)		0.0343	J	0.00450	0.0441
Carbon disulfide		0.00333	J	0.00318	0.00441
Carbon tetrachloride		0.000591	U	0.000591	0.00176
Chlorobenzene		0.000591	U	0.000591	0.00176
Chloroethane		0.00168	U	0.00168	0.00441
Chloroform		0.000591	U	0.000591	0.00176
Chloromethane		0.000591	U	0.000591	0.00176
cis-1,2-Dichloroethene		0.000591	U	0.000591	0.00176
cis-1,3-Dichloropropene		0.000591	U	0.000591	0.00176
Dibromochloromethane		0.000300	U	0.000300	0.00176
1,2-Dibromoethane		0.000882	U	0.000882	0.00176
Dichlorodifluoromethane		0.000882	U	0.000882	0.00176
1,1-Dichloroethane		0.000591	U	0.000591	0.00176
1,2-Dichloroethane		0.000591	U	0.000591	0.00176
1,1-Dichloroethene		0.000503	U	0.000503	0.00176
1,2-Dichloropropane		0.000829	U	0.000829	0.00176
1,3-Dichloropropane		0.000829	U	0.000829	0.00176
2,2-Dichloropropane		0.000591	U	0.000591	0.00176
1,1-Dichloropropene		0.000450	U	0.000450	0.00176
Ethylbenzene		0.0580		0.000591	0.00176
2-Hexanone		0.0147	U	0.0147	0.0441
Iodomethane		0.00591	U	0.00591	0.0176
Methylene bromide		0.000494	U	0.000494	0.00176
Methylene Chloride		0.000758	U	0.000758	0.00882
4-Methyl-2-pentanone (MIBK)		0.00168	U	0.00168	0.0441
Methyl tert butyl ether		0.000967	J	0.000847	0.00176
Styrene		0.000970	U	0.000970	0.00176
1,1,1,2-Tetrachloroethane		0.000591	U	0.000591	0.00176
Tetrachloroethene		0.000644	U	0.000644	0.00176
Toluene		0.000653	U	0.000653	0.00176
trans-1,2-Dichloroethene		0.000591	U	0.000591	0.00176
trans-1,3-Dichloropropene		0.000591	U	0.000591	0.00176
1,1,1-Trichloroethane		0.000811	U	0.000811	0.00176
1,1,2-Trichloroethane		0.00123	U	0.00123	0.00441
Trichloroethene		0.000847	U	0.000847	0.00176
Trichlorofluoromethane		0.000882	U	0.000882	0.00176
Vinyl acetate		0.00388	U	0.00388	0.0176
Vinyl chloride		0.000970	U	0.000970	0.00176

Surrogate	%Rec	Qualifier	Acceptance Limits

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 447

Lab Sample ID: 490-117346-1 Date Sampled: 11/28/2016 1500
Client Matrix: Solid % Moisture: 17.1 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-391971	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-16.D
Dilution:	1.0			Initial Weight/Volume:	6.835 g
Analysis Date:	12/06/2016 1759			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1500				

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	2012	*	70 - 130
Dibromofluoromethane (Surr)	116		70 - 130
1,2-Dichloroethane-d4 (Surr)	478	*	70 - 130
Toluene-d8 (Surr)	2464	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 447

Lab Sample ID: 490-117346-1 Date Sampled: 11/28/2016 1500
Client Matrix: Solid % Moisture: 17.1 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-391971	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-16.D
Dilution:	1.0			Initial Weight/Volume:	6.835 g
Analysis Date:	12/06/2016 1759			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1500				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
	Unknown	4.47	15.5	J
	Unknown	5.15	10.5	J
	Unknown	6.01	12.7	J
	Unknown	6.10	15.0	J
	Unknown	6.37	10.6	J
	Unknown	6.55	31.0	J
	Unknown	6.71	19.7	J
	Unknown	7.63	12.1	J
	Unknown	7.75	26.0	J
	Unknown	9.75	13.5	J

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 447

Lab Sample ID: 490-117346-1 Date Sampled: 11/28/2016 1500
Client Matrix: Solid % Moisture: 17.1 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392855	Instrument ID:	HP68
Prep Method:	5035A	Prep Batch:	490-391833	Lab File ID:	12081622.D
Dilution:	1.0			Initial Weight/Volume:	6.526 g
Analysis Date:	12/08/2016 1951			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0407	U	0.0407	0.113
1,2-Dibromo-3-chloropropane		0.0395	U	0.0395	0.282
1,2-Dichlorobenzene		0.0192	U	0.0192	0.113
1,3-Dichlorobenzene		0.0384	U	0.0384	0.113
1,4-Dichlorobenzene		0.0531	U	0.0531	0.113
Hexachlorobutadiene		0.0621	U	0.0621	0.282
Isopropylbenzene		1.81		0.0237	0.113
m,p-Xylene		13.2		0.0316	0.169
Naphthalene		0.825		0.0960	0.282
n-Butylbenzene		1.69		0.0565	0.113
N-Propylbenzene		2.06		0.0384	0.113
o-Chlorotoluene		0.0520	U	0.0520	0.113
o-Xylene		0.107	J	0.0384	0.113
p-Chlorotoluene		0.0474	U	0.0474	0.113
p-Isopropyltoluene		0.147		0.0384	0.113
sec-Butylbenzene		1.02		0.0384	0.113
tert-Butylbenzene		0.103	J	0.0565	0.113
1,1,2,2-Tetrachloroethane		0.0565	U	0.0565	0.113
1,2,3-Trichlorobenzene		0.0215	U	0.0215	0.113
1,2,4-Trichlorobenzene		0.0384	U	0.0384	0.113
1,2,3-Trichloropropane		0.0316	U	0.0316	0.113
1,2,4-Trimethylbenzene		18.7		0.0565	0.113
1,3,5-Trimethylbenzene		12.2		0.0429	0.113
Xylenes (total)		13.3		0.0700	0.169

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130
1,2-Dichloroethane-d4 (Surr)	107		70 - 130
Toluene-d8 (Surr)	114		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 450

Lab Sample ID: 490-117346-2 Date Sampled: 11/28/2016 1530
Client Matrix: Solid % Moisture: 11.8 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392216	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-37.D
Dilution:	1.0			Initial Weight/Volume:	5.813 g
Analysis Date:	12/07/2016 0443			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0839		0.00820	0.0488
Benzene		0.00677		0.000654	0.00195
Bromochloromethane		0.000537	U	0.000537	0.00195
Bromodichloromethane		0.000537	U	0.000537	0.00195
Bromoform		0.000537	U	0.000537	0.00195
Bromomethane		0.00117	U	0.00117	0.00195
2-Butanone (MEK)		0.0177	J	0.00498	0.0488
Carbon disulfide		0.00351	U	0.00351	0.00488
Carbon tetrachloride		0.000654	U	0.000654	0.00195
Chlorobenzene		0.000654	U	0.000654	0.00195
Chloroethane		0.00185	U	0.00185	0.00488
Chloroform		0.000654	U	0.000654	0.00195
Chloromethane		0.000654	U	0.000654	0.00195
cis-1,2-Dichloroethene		0.000654	U	0.000654	0.00195
cis-1,3-Dichloropropene		0.000654	U	0.000654	0.00195
Dibromochloromethane		0.000332	U	0.000332	0.00195
1,2-Dibromoethane		0.000976	U	0.000976	0.00195
Dichlorodifluoromethane		0.000976	U	0.000976	0.00195
1,1-Dichloroethane		0.000654	U	0.000654	0.00195
1,2-Dichloroethane		0.000654	U	0.000654	0.00195
1,1-Dichloroethene		0.000556	U	0.000556	0.00195
1,2-Dichloropropane		0.000917	U	0.000917	0.00195
1,3-Dichloropropane		0.000917	U	0.000917	0.00195
2,2-Dichloropropane		0.000654	U	0.000654	0.00195
1,1-Dichloropropene		0.000498	U	0.000498	0.00195
Ethylbenzene		0.00121	J	0.000654	0.00195
2-Hexanone		0.0163	U	0.0163	0.0488
Iodomethane		0.00654	U	0.00654	0.0195
Isopropylbenzene		0.0252		0.000400	0.00195
Methylene bromide		0.000546	U	0.000546	0.00195
Methylene Chloride		0.000839	U	0.000839	0.00976
4-Methyl-2-pentanone (MIBK)		0.00185	U	0.00185	0.0488
Methyl tert butyl ether		0.000937	U	0.000937	0.00195
m,p-Xylene		0.0105		0.000546	0.00390
o-Xylene		0.00347		0.000654	0.00195
Styrene		0.00107	U	0.00107	0.00195
1,1,1,2-Tetrachloroethane		0.000654	U	0.000654	0.00195
Tetrachloroethene		0.000712	U	0.000712	0.00195
Toluene		0.00815		0.000722	0.00195
trans-1,2-Dichloroethene		0.000654	U	0.000654	0.00195
trans-1,3-Dichloropropene		0.000654	U	0.000654	0.00195
1,1,1-Trichloroethane		0.000898	U	0.000898	0.00195
1,1,2-Trichloroethane		0.00137	U	0.00137	0.00488
Trichloroethene		0.000937	U	0.000937	0.00195
Trichlorofluoromethane		0.000976	U	0.000976	0.00195
Vinyl acetate		0.00429	U	0.00429	0.0195

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 450

Lab Sample ID: 490-117346-2 Date Sampled: 11/28/2016 1530
Client Matrix: Solid % Moisture: 11.8 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392216	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-37.D
Dilution:	1.0			Initial Weight/Volume:	5.813 g
Analysis Date:	12/07/2016 0443			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl chloride		0.00107	U	0.00107	0.00195
Xylenes (total)		0.0140		0.00120	0.00585

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	198	*	70 - 130
Dibromofluoromethane (Surr)	105		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
Toluene-d8 (Surr)	245	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 450

Lab Sample ID: 490-117346-2 Date Sampled: 11/28/2016 1530
Client Matrix: Solid % Moisture: 11.8 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392216	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-37.D
Dilution:	1.0			Initial Weight/Volume:	5.813 g
Analysis Date:	12/07/2016 0443			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1530				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
96-37-7	Cyclopentane, methyl-	3.67	0.609	J N
110-82-7	Cyclohexane	4.13	0.709	E
108-87-2	Methylcyclohexane	4.95	2.33	E
2815-58-9	Cyclopentane, 1,2,4-trimethyl-	5.12	0.432	J N
590-66-9	Cyclohexane, 1,1-dimethyl-	5.82	0.464	J N
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.97	0.593	J N
2207-04-7	Cyclohexane, 1,4-dimethyl-, trans-	6.06	0.606	J N
1678-91-7	Cyclohexane, ethyl-	6.45	1.21	J N
1678-92-8	Cyclohexane, propyl-	7.70	0.651	J N
611-14-3	Benzene, 1-ethyl-2-methyl-	8.57	0.375	J N

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 450

Lab Sample ID: 490-117346-2 Date Sampled: 11/28/2016 1530
Client Matrix: Solid % Moisture: 11.8 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392855	Instrument ID:	HP68
Prep Method:	5035A	Prep Batch:	490-391833	Lab File ID:	12081627.D
Dilution:	1.0			Initial Weight/Volume:	6.736 g
Analysis Date:	12/08/2016 2208			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0352	U	0.0352	0.0976
1,2-Dibromo-3-chloropropane		0.0342	U	0.0342	0.244
1,2-Dichlorobenzene		0.0166	U	0.0166	0.0976
1,3-Dichlorobenzene		0.0332	U	0.0332	0.0976
1,4-Dichlorobenzene		0.0459	U	0.0459	0.0976
Hexachlorobutadiene		0.0537	U	0.0537	0.244
Naphthalene		0.0830	U	0.0830	0.244
n-Butylbenzene		0.0488	U	0.0488	0.0976
N-Propylbenzene		0.0571	J	0.0332	0.0976
o-Chlorotoluene		0.0449	U	0.0449	0.0976
p-Chlorotoluene		0.0410	U	0.0410	0.0976
p-Isopropyltoluene		0.0332	U	0.0332	0.0976
sec-Butylbenzene		0.0584	J	0.0332	0.0976
tert-Butylbenzene		0.0488	U	0.0488	0.0976
1,1,2,2-Tetrachloroethane		0.0488	U	0.0488	0.0976
1,2,3-Trichlorobenzene		0.0186	U	0.0186	0.0976
1,2,4-Trichlorobenzene		0.0332	U	0.0332	0.0976
1,2,3-Trichloropropane		0.0273	U	0.0273	0.0976
1,2,4-Trimethylbenzene		0.273		0.0488	0.0976
1,3,5-Trimethylbenzene		0.128		0.0371	0.0976

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
Dibromofluoromethane (Surr)	105		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 445

Lab Sample ID: 490-117346-3 Date Sampled: 11/28/2016 1430
Client Matrix: Solid % Moisture: 10.1 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-391971	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-17.D
Dilution:	1.0			Initial Weight/Volume:	5.719 g
Analysis Date:	12/06/2016 1829			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.00817	U	0.00817	0.0486
Benzene		0.00760		0.000652	0.00195
Bromochloromethane		0.000535	U	0.000535	0.00195
Bromodichloromethane		0.000535	U	0.000535	0.00195
Bromoform		0.000535	U	0.000535	0.00195
Bromomethane		0.00117	U	0.00117	0.00195
2-Butanone (MEK)		0.0319	J	0.00496	0.0486
Carbon disulfide		0.00350	U	0.00350	0.00486
Carbon tetrachloride		0.000652	U	0.000652	0.00195
Chlorobenzene		0.000652	U	0.000652	0.00195
Chloroethane		0.00185	U	0.00185	0.00486
Chloroform		0.000652	U	0.000652	0.00195
Chloromethane		0.000652	U	0.000652	0.00195
cis-1,2-Dichloroethene		0.000652	U	0.000652	0.00195
cis-1,3-Dichloropropene		0.000652	U	0.000652	0.00195
Dibromochloromethane		0.000331	U	0.000331	0.00195
1,2-Dibromoethane		0.000973	U	0.000973	0.00195
Dichlorodifluoromethane		0.000973	U	0.000973	0.00195
1,1-Dichloroethane		0.000652	U	0.000652	0.00195
1,2-Dichloroethane		0.000652	U	0.000652	0.00195
1,1-Dichloroethene		0.000555	U	0.000555	0.00195
1,2-Dichloropropane		0.000915	U	0.000915	0.00195
1,3-Dichloropropane		0.000915	U	0.000915	0.00195
2,2-Dichloropropane		0.000652	U	0.000652	0.00195
1,1-Dichloropropene		0.000496	U	0.000496	0.00195
Ethylbenzene		0.000652	U	0.000652	0.00195
2-Hexanone		0.0162	U	0.0162	0.0486
Iodomethane		0.00652	U	0.00652	0.0195
Isopropylbenzene		0.340		0.000399	0.00195
Methylene bromide		0.000545	U	0.000545	0.00195
Methylene Chloride		0.000837	U	0.000837	0.00973
4-Methyl-2-pentanone (MIBK)		0.00185	U	0.00185	0.0486
Methyl tert butyl ether		0.000934	U	0.000934	0.00195
m,p-Xylene		0.109		0.000545	0.00389
o-Xylene		0.0189		0.000652	0.00195
Styrene		0.00107	U	0.00107	0.00195
1,1,1,2-Tetrachloroethane		0.000652	U	0.000652	0.00195
Tetrachloroethene		0.000710	U	0.000710	0.00195
Toluene		0.00351		0.000720	0.00195
trans-1,2-Dichloroethene		0.000652	U	0.000652	0.00195
trans-1,3-Dichloropropene		0.000652	U	0.000652	0.00195
1,1,1-Trichloroethane		0.000895	U	0.000895	0.00195
1,1,2-Trichloroethane		0.00136	U	0.00136	0.00486
Trichloroethene		0.000934	U	0.000934	0.00195
Trichlorofluoromethane		0.000973	U	0.000973	0.00195
Vinyl acetate		0.00428	U	0.00428	0.0195

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 445

Lab Sample ID: 490-117346-3 Date Sampled: 11/28/2016 1430
Client Matrix: Solid % Moisture: 10.1 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-391971	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-17.D
Dilution:	1.0			Initial Weight/Volume:	5.719 g
Analysis Date:	12/06/2016 1829			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl chloride		0.00107	U	0.00107	0.00195
Xylenes (total)		0.128		0.00120	0.00584

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	850	*	70 - 130
Dibromofluoromethane (Surr)	108		70 - 130
1,2-Dichloroethane-d4 (Surr)	114		70 - 130
Toluene-d8 (Surr)	1879	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 445

Lab Sample ID: 490-117346-3 Date Sampled: 11/28/2016 1430
Client Matrix: Solid % Moisture: 10.1 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-391971	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-17.D
Dilution:	1.0			Initial Weight/Volume:	5.719 g
Analysis Date:	12/06/2016 1829			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1430				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
110-82-7	Cyclohexane	4.13	2.98	E
108-87-2	Methylcyclohexane	4.98	5.52	E
2051-30-1	Octane, 2,6-dimethyl-	7.59	0.143	J N
13395-76-1	Cyclohexanone, 2,3-dimethyl-	7.72	0.228	J N
	Unknown	7.94	0.311	J
1678-93-9	Cyclohexane, butyl-	8.96	0.133	J N
526-73-8	1,2,3-Trimethylbenzene	9.14	0.144	*
	Unknown	9.31	0.228	J
527-84-4	Benzene, 1-methyl-2-(1-methylethyl)-	9.72	0.122	J N
	Unknown	11.63	0.121	J

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 445

Lab Sample ID: 490-117346-3 Date Sampled: 11/28/2016 1430
Client Matrix: Solid % Moisture: 10.1 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392855	Instrument ID:	HP68
Prep Method:	5035A	Prep Batch:	490-391833	Lab File ID:	12081629.D
Dilution:	1.0			Initial Weight/Volume:	6.194 g
Analysis Date:	12/08/2016 2303			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0364	U	0.0364	0.101
1,2-Dibromo-3-chloropropane		0.0354	U	0.0354	0.253
1,2-Dichlorobenzene		0.0172	U	0.0172	0.101
1,3-Dichlorobenzene		0.0344	U	0.0344	0.101
1,4-Dichlorobenzene		0.0475	U	0.0475	0.101
Hexachlorobutadiene		0.0556	U	0.0556	0.253
Naphthalene		0.212	J	0.0859	0.253
n-Butylbenzene		0.542		0.0506	0.101
N-Propylbenzene		0.708		0.0344	0.101
o-Chlorotoluene		0.0465	U	0.0465	0.101
p-Chlorotoluene		0.0425	U	0.0425	0.101
p-Isopropyltoluene		0.0344	U	0.0344	0.101
sec-Butylbenzene		0.301		0.0344	0.101
tert-Butylbenzene		0.0506	U	0.0506	0.101
1,1,2,2-Tetrachloroethane		0.0506	U	0.0506	0.101
1,2,3-Trichlorobenzene		0.0192	U	0.0192	0.101
1,2,4-Trichlorobenzene		0.0344	U	0.0344	0.101
1,2,3-Trichloropropane		0.0283	U	0.0283	0.101
1,2,4-Trimethylbenzene		9.04		0.0506	0.101
1,3,5-Trimethylbenzene		4.75		0.0384	0.101

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
Toluene-d8 (Surr)	108		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 443

Lab Sample ID: 490-117346-4 Date Sampled: 11/28/2016 1400
Client Matrix: Solid % Moisture: 11.3 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-19.D
Dilution:	1.0			Initial Weight/Volume:	6.035 g
Analysis Date:	12/09/2016 1900			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.298		0.00785	0.0467
Benzene		0.000626	U	0.000626	0.00187
Bromochloromethane		0.000514	U	0.000514	0.00187
Bromodichloromethane		0.000514	U	0.000514	0.00187
Bromoform		0.000514	U	0.000514	0.00187
Bromomethane		0.00112	U	0.00112	0.00187
2-Butanone (MEK)		0.0645		0.00476	0.0467
Carbon disulfide		0.0157		0.00336	0.00467
Carbon tetrachloride		0.000626	U	0.000626	0.00187
Chlorobenzene		0.000626	U	0.000626	0.00187
Chloroethane		0.00178	U	0.00178	0.00467
Chloroform		0.000626	U	0.000626	0.00187
Chloromethane		0.000626	U	0.000626	0.00187
cis-1,2-Dichloroethene		0.000626	U	0.000626	0.00187
cis-1,3-Dichloropropene		0.000626	U	0.000626	0.00187
Dibromochloromethane		0.000318	U	0.000318	0.00187
1,2-Dibromoethane		0.000934	U	0.000934	0.00187
Dichlorodifluoromethane		0.000934	U	0.000934	0.00187
1,1-Dichloroethane		0.000626	U	0.000626	0.00187
1,2-Dichloroethane		0.000626	U	0.000626	0.00187
1,1-Dichloroethene		0.000533	U	0.000533	0.00187
1,2-Dichloropropane		0.000878	U	0.000878	0.00187
1,3-Dichloropropane		0.000878	U	0.000878	0.00187
2,2-Dichloropropane		0.000626	U	0.000626	0.00187
1,1-Dichloropropene		0.000476	U	0.000476	0.00187
Ethylbenzene		0.00538		0.000626	0.00187
2-Hexanone		0.0156	U	0.0156	0.0467
Iodomethane		0.00626	U	0.00626	0.0187
Isopropylbenzene		0.108		0.000383	0.00187
Methylene bromide		0.000523	U	0.000523	0.00187
Methylene Chloride		0.000803	U	0.000803	0.00934
4-Methyl-2-pentanone (MIBK)		0.00178	U	0.00178	0.0467
Methyl tert butyl ether		0.000897	U	0.000897	0.00187
m,p-Xylene		0.0465		0.000523	0.00374
o-Xylene		0.0275		0.000626	0.00187
Styrene		0.00103	U	0.00103	0.00187
1,1,1,2-Tetrachloroethane		0.000626	U	0.000626	0.00187
Tetrachloroethene		0.000682	U	0.000682	0.00187
Toluene		0.00859		0.000691	0.00187
trans-1,2-Dichloroethene		0.000626	U	0.000626	0.00187
trans-1,3-Dichloropropene		0.000626	U	0.000626	0.00187
1,1,1-Trichloroethane		0.000860	U	0.000860	0.00187
1,1,2-Trichloroethane		0.00131	U	0.00131	0.00467
Trichloroethene		0.000897	U	0.000897	0.00187
Trichlorofluoromethane		0.000934	U	0.000934	0.00187
Vinyl acetate		0.00411	U	0.00411	0.0187

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 443

Lab Sample ID: 490-117346-4 Date Sampled: 11/28/2016 1400
Client Matrix: Solid % Moisture: 11.3 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-19.D
Dilution:	1.0			Initial Weight/Volume:	6.035 g
Analysis Date:	12/09/2016 1900			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl chloride		0.00103	U	0.00103	0.00187
Xylenes (total)		0.0740		0.00115	0.00561

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	547	*	70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	119		70 - 130
Toluene-d8 (Surr)	731	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 443

Lab Sample ID: 490-117346-4 Date Sampled: 11/28/2016 1400
Client Matrix: Solid % Moisture: 11.3 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-19.D
Dilution:	1.0			Initial Weight/Volume:	6.035 g
Analysis Date:	12/09/2016 1900			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1400				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
110-82-7	Cyclohexane	4.13	1.89	E
78-83-1	Isobutyl alcohol	4.19	32.9	E
108-87-2	Methylcyclohexane	5.00	4.57	E
583-57-3	Cyclohexane, 1,2-dimethyl-	5.99	1.13	J N
	Unknown	6.47	2.44	J
7667-60-9	Cyclohexane, 1,2,4-trimethyl-, (1.alpha.,2.beta.,4.beta.)-	6.70	1.26	J N
	Unknown	7.72	1.31	J
1678-93-9	Cyclohexane, butyl-	8.96	1.28	J N
	Unknown	11.02	1.12	J
1680-51-9	Naphthalene, 1,2,3,4-tetrahydro-6-methyl-	12.11	2.09	J N

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 443

Lab Sample ID: 490-117346-4 Date Sampled: 11/28/2016 1400
Client Matrix: Solid % Moisture: 11.3 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392855	Instrument ID:	HP68
Prep Method:	5035A	Prep Batch:	490-391833	Lab File ID:	12081628.D
Dilution:	1.0			Initial Weight/Volume:	6.034 g
Analysis Date:	12/08/2016 2236			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0382	U	0.0382	0.106
1,2-Dibromo-3-chloropropane		0.0372	U	0.0372	0.266
1,2-Dichlorobenzene		0.0181	U	0.0181	0.106
1,3-Dichlorobenzene		0.0361	U	0.0361	0.106
1,4-Dichlorobenzene		0.0499	U	0.0499	0.106
Hexachlorobutadiene		0.0584	U	0.0584	0.266
Naphthalene		0.0903	U	0.0903	0.266
n-Butylbenzene		0.164		0.0531	0.106
N-Propylbenzene		0.239		0.0361	0.106
o-Chlorotoluene		0.0489	U	0.0489	0.106
p-Chlorotoluene		0.0446	U	0.0446	0.106
p-Isopropyltoluene		0.0361	U	0.0361	0.106
sec-Butylbenzene		0.134		0.0361	0.106
tert-Butylbenzene		0.0531	U	0.0531	0.106
1,1,2,2-Tetrachloroethane		0.0531	U	0.0531	0.106
1,2,3-Trichlorobenzene		0.0202	U	0.0202	0.106
1,2,4-Trichlorobenzene		0.0361	U	0.0361	0.106
1,2,3-Trichloropropane		0.0297	U	0.0297	0.106
1,2,4-Trimethylbenzene		0.0739	J	0.0531	0.106
1,3,5-Trimethylbenzene		0.228		0.0404	0.106

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	142	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 449

Lab Sample ID: 490-117346-5 Date Sampled: 11/28/2016 1530
Client Matrix: Solid % Moisture: 11.1 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392689	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120816-13.D
Dilution:	1.0			Initial Weight/Volume:	6.061 g
Analysis Date:	12/08/2016 1629			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0618		0.00780	0.0464
Benzene		0.0165		0.000622	0.00186
Bromobenzene		0.000668	U	0.000668	0.00186
Bromochloromethane		0.000511	U	0.000511	0.00186
Bromodichloromethane		0.000511	U	0.000511	0.00186
Bromoform		0.000511	U	0.000511	0.00186
Bromomethane		0.00111	U	0.00111	0.00186
2-Butanone (MEK)		0.0122	J	0.00473	0.0464
Carbon disulfide		0.00406	J	0.00334	0.00464
Carbon tetrachloride		0.000622	U	0.000622	0.00186
Chlorobenzene		0.000622	U	0.000622	0.00186
Chloroethane		0.00176	U	0.00176	0.00464
Chloroform		0.000622	U	0.000622	0.00186
Chloromethane		0.000622	U	0.000622	0.00186
cis-1,2-Dichloroethene		0.000622	U	0.000622	0.00186
cis-1,3-Dichloropropene		0.000622	U	0.000622	0.00186
Dibromochloromethane		0.000316	U	0.000316	0.00186
1,2-Dibromo-3-chloropropane		0.000650	U	0.000650	0.00464
1,2-Dibromoethane		0.000928	U	0.000928	0.00186
1,2-Dichlorobenzene		0.000316	U	0.000316	0.00186
1,3-Dichlorobenzene		0.000622	U	0.000622	0.00186
1,4-Dichlorobenzene		0.000622	U	0.000622	0.00186
Dichlorodifluoromethane		0.000928	U	0.000928	0.00186
1,1-Dichloroethane		0.000622	U	0.000622	0.00186
1,2-Dichloroethane		0.000622	U	0.000622	0.00186
1,1-Dichloroethene		0.000529	U	0.000529	0.00186
1,2-Dichloropropane		0.000873	U	0.000873	0.00186
1,3-Dichloropropane		0.000873	U	0.000873	0.00186
2,2-Dichloropropane		0.000622	U	0.000622	0.00186
1,1-Dichloropropene		0.000473	U	0.000473	0.00186
Ethylbenzene		0.00112	J	0.000622	0.00186
Hexachlorobutadiene		0.00106	U	0.00106	0.00464
2-Hexanone		0.0155	U	0.0155	0.0464
Iodomethane		0.00622	U	0.00622	0.0186
Isopropylbenzene		0.00836		0.000381	0.00186
Methylene bromide		0.000520	U	0.000520	0.00186
Methylene Chloride		0.000798	U	0.000798	0.00928
4-Methyl-2-pentanone (MIBK)		0.00176	U	0.00176	0.0464
Methyl tert butyl ether		0.000891	U	0.000891	0.00186
m,p-Xylene		0.00717		0.000520	0.00371
Naphthalene		0.00158	U	0.00158	0.00464
n-Butylbenzene		0.00152	J	0.000910	0.00186
N-Propylbenzene		0.00740		0.000622	0.00186
o-Chlorotoluene		0.000826	U	0.000826	0.00186
o-Xylene		0.00236		0.000622	0.00186
p-Chlorotoluene		0.000780	U	0.000780	0.00186

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 449

Lab Sample ID: 490-117346-5 Date Sampled: 11/28/2016 1530
Client Matrix: Solid % Moisture: 11.1 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392689	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120816-13.D
Dilution:	1.0			Initial Weight/Volume:	6.061 g
Analysis Date:	12/08/2016 1629			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.00233		0.000622	0.00186
sec-Butylbenzene		0.00441		0.000622	0.00186
Styrene		0.00102	U	0.00102	0.00186
tert-Butylbenzene		0.000835	U	0.000835	0.00186
1,1,1,2-Tetrachloroethane		0.000622	U	0.000622	0.00186
1,1,2,2-Tetrachloroethane		0.000928	U	0.000928	0.00186
Tetrachloroethene		0.000678	U	0.000678	0.00186
Toluene		0.00554		0.000687	0.00186
trans-1,2-Dichloroethene		0.000622	U	0.000622	0.00186
trans-1,3-Dichloropropene		0.000622	U	0.000622	0.00186
1,2,3-Trichlorobenzene		0.000353	U	0.000353	0.00186
1,2,4-Trichlorobenzene		0.000622	U	0.000622	0.00186
1,1,1-Trichloroethane		0.000854	U	0.000854	0.00186
1,1,2-Trichloroethane		0.00130	U	0.00130	0.00464
Trichloroethene		0.000891	U	0.000891	0.00186
Trichlorofluoromethane		0.000928	U	0.000928	0.00186
1,2,3-Trichloropropane		0.000511	U	0.000511	0.00186
1,2,4-Trimethylbenzene		0.0348		0.000928	0.00186
1,3,5-Trimethylbenzene		0.0167		0.000696	0.00186
Vinyl acetate		0.00408	U	0.00408	0.0186
Vinyl chloride		0.00102	U	0.00102	0.00186
Xylenes (total)		0.00953		0.00114	0.00557

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
Toluene-d8 (Surr)	147	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 449

Lab Sample ID: 490-117346-5 Date Sampled: 11/28/2016 1530
Client Matrix: Solid % Moisture: 11.1 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392689	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120816-13.D
Dilution:	1.0			Initial Weight/Volume:	6.061 g
Analysis Date:	12/08/2016 1629			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1530				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
96-37-7	Cyclopentane, methyl-	3.67	0.374	J N
110-82-7	Cyclohexane	4.13	0.403	E
589-34-4	Hexane, 3-methyl-	4.20	0.241	J N
872-56-0	Isopropylcyclobutane	4.45	0.751	J N
108-87-2	Methylcyclohexane	4.95	1.55	E
2815-58-9	Cyclopentane, 1,2,4-trimethyl-	5.12	0.231	J N
	Unknown	5.33	0.171	J
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.97	0.265	J N
2207-04-7	Cyclohexane, 1,4-dimethyl-, trans-	6.06	0.273	J N
1678-91-7	Cyclohexane, ethyl-	6.45	0.506	J N

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 448

Lab Sample ID: 490-117346-6 Date Sampled: 11/28/2016 1500
Client Matrix: Solid % Moisture: 10.9 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-391971	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-20.D
Dilution:	1.0			Initial Weight/Volume:	6.281 g
Analysis Date:	12/06/2016 2001			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.808		0.00750	0.0447
Bromochloromethane		0.000491	U	0.000491	0.00179
Bromodichloromethane		0.000491	U	0.000491	0.00179
Bromomethane		0.00107	U	0.00107	0.00179
2-Butanone (MEK)		0.0845		0.00456	0.0447
Carbon disulfide		0.00431	J	0.00322	0.00447
Carbon tetrachloride		0.000598	U	0.000598	0.00179
Chloroethane		0.00170	U	0.00170	0.00447
Chloroform		0.000598	U	0.000598	0.00179
Chloromethane		0.000598	U	0.000598	0.00179
cis-1,2-Dichloroethene		0.000598	U	0.000598	0.00179
Dichlorodifluoromethane		0.000893	U	0.000893	0.00179
1,1-Dichloroethane		0.000598	U	0.000598	0.00179
1,2-Dichloroethane		0.000598	U	0.000598	0.00179
1,1-Dichloroethene		0.000509	U	0.000509	0.00179
1,2-Dichloropropane		0.000840	U	0.000840	0.00179
2,2-Dichloropropane		0.000598	U	0.000598	0.00179
1,1-Dichloropropene		0.000456	U	0.000456	0.00179
Iodomethane		0.00598	U	0.00598	0.0179
Methylene bromide		0.000500	U	0.000500	0.00179
Methylene Chloride		0.000768	U	0.000768	0.00893
Methyl tert butyl ether		0.000858	U	0.000858	0.00179
trans-1,2-Dichloroethene		0.000598	U	0.000598	0.00179
1,1,1-Trichloroethane		0.000822	U	0.000822	0.00179
Trichloroethene		0.000858	U	0.000858	0.00179
Trichlorofluoromethane		0.000893	U	0.000893	0.00179
Vinyl acetate		0.00393	U	0.00393	0.0179
Vinyl chloride		0.000983	U	0.000983	0.00179

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	1397	*	70 - 130
Dibromofluoromethane (Surr)	92		70 - 130
1,2-Dichloroethane-d4 (Surr)	1364	*	70 - 130
Toluene-d8 (Surr)	4626	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 448

Lab Sample ID: 490-117346-6 Date Sampled: 11/28/2016 1500
Client Matrix: Solid % Moisture: 10.9 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-391971	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-20.D
Dilution:	1.0			Initial Weight/Volume:	6.281 g
Analysis Date:	12/06/2016 2001			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1500				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
110-82-7	Cyclohexane	4.17	8.01	E
108-87-2	Methylcyclohexane	4.96	6.29	E
	Unknown	7.67	0.205	J
	Unknown	7.77	0.355	J
	Unknown	8.61	0.184	J
	Unknown	9.07	0.273	J
526-73-8	1,2,3-Trimethylbenzene	9.18	1.75	E
	Unknown	9.63	0.112	J
527-53-7	Benzene, 1,2,3,5-tetramethyl-	9.80	0.171	J N
	Unknown	10.27	0.172	J

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 448

Lab Sample ID: 490-117346-6 Date Sampled: 11/28/2016 1500
Client Matrix: Solid % Moisture: 10.9 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392855	Instrument ID:	HP68
Prep Method:	5035A	Prep Batch:	490-391833	Lab File ID:	12081630.D
Dilution:	1.0			Initial Weight/Volume:	6.385 g
Analysis Date:	12/08/2016 2331			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Benzene		0.210		0.0340	0.100
Bromobenzene		0.0360	U	0.0360	0.100
Bromoform		0.0280	U	0.0280	0.100
Chlorobenzene		0.0340	U	0.0340	0.100
cis-1,3-Dichloropropene		0.0340	U	0.0340	0.100
Dibromochloromethane		0.0170	U	0.0170	0.100
1,2-Dibromo-3-chloropropane		0.0350	U	0.0350	0.250
1,2-Dibromoethane		0.0500	U	0.0500	0.100
1,2-Dichlorobenzene		0.0170	U	0.0170	0.100
1,3-Dichlorobenzene		0.0340	U	0.0340	0.100
1,4-Dichlorobenzene		0.0470	U	0.0470	0.100
1,3-Dichloropropane		0.0470	U	0.0470	0.100
Ethylbenzene		0.0760	J	0.0340	0.100
Hexachlorobutadiene		0.0550	U	0.0550	0.250
2-Hexanone		0.841	U	0.841	2.50
Isopropylbenzene		2.24		0.0210	0.100
4-Methyl-2-pentanone (MIBK)		0.851	U	0.851	2.50
m,p-Xylene		5.08		0.0280	0.150
Naphthalene		0.887		0.0851	0.250
n-Butylbenzene		2.20		0.0500	0.100
N-Propylbenzene		2.94		0.0340	0.100
o-Chlorotoluene		0.0460	U	0.0460	0.100
o-Xylene		0.0947	J	0.0340	0.100
p-Chlorotoluene		0.0420	U	0.0420	0.100
p-Isopropyltoluene		0.0340	U	0.0340	0.100
sec-Butylbenzene		1.45		0.0340	0.100
Styrene		0.0550	U	0.0550	0.100
tert-Butylbenzene		0.148		0.0500	0.100
1,1,1,2-Tetrachloroethane		0.0340	U	0.0340	0.100
1,1,2,2-Tetrachloroethane		0.0500	U	0.0500	0.100
Tetrachloroethene		0.0340	U	0.0340	0.100
Toluene		0.0370	U	0.0370	0.100
trans-1,3-Dichloropropene		0.0340	U	0.0340	0.100
1,2,3-Trichlorobenzene		0.0190	U	0.0190	0.100
1,2,4-Trichlorobenzene		0.0340	U	0.0340	0.100
1,1,2-Trichloroethane		0.0701	U	0.0701	0.250
1,2,3-Trichloropropane		0.0280	U	0.0280	0.100
1,3,5-Trimethylbenzene		12.2		0.0380	0.100
Xylenes (total)		5.17		0.0620	0.150

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	161	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 448

Lab Sample ID: 490-117346-6 Date Sampled: 11/28/2016 1500
Client Matrix: Solid % Moisture: 10.9 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392855	Instrument ID:	HP68
Prep Method:	5035A	Prep Batch:	490-391833	Lab File ID:	12081631.D
Dilution:	10			Initial Weight/Volume:	6.385 g
Analysis Date:	12/08/2016 2358			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,2,4-Trimethylbenzene		42.5		0.500	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
Toluene-d8 (Surr)	90		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 452

Lab Sample ID: 490-117346-7 Date Sampled: 11/28/2016 1600
Client Matrix: Solid % Moisture: 10.5 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-391971	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-21.D
Dilution:	1.0			Initial Weight/Volume:	6.202 g
Analysis Date:	12/06/2016 2033			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.000649	U	0.000649	0.00180
1,2-Dibromo-3-chloropropane		0.000631	U	0.000631	0.00450
1,2-Dichlorobenzene		0.000306	U	0.000306	0.00180
1,3-Dichlorobenzene		0.000604	U	0.000604	0.00180
1,4-Dichlorobenzene		0.000604	U	0.000604	0.00180
Hexachlorobutadiene		0.00103	U	0.00103	0.00450
Naphthalene		0.00729		0.00153	0.00450
n-Butylbenzene		0.00385		0.000883	0.00180
N-Propylbenzene		0.0133		0.000604	0.00180
o-Chlorotoluene		0.000802	U	0.000802	0.00180
p-Chlorotoluene		0.000757	U	0.000757	0.00180
p-Isopropyltoluene		0.00157	J	0.000604	0.00180
sec-Butylbenzene		0.0114		0.000604	0.00180
tert-Butylbenzene		0.00519		0.000811	0.00180
1,1,2,2-Tetrachloroethane		0.000901	U	0.000901	0.00180
1,2,3-Trichlorobenzene		0.000342	U	0.000342	0.00180
1,2,4-Trichlorobenzene		0.000604	U	0.000604	0.00180
1,2,3-Trichloropropane		0.000495	U	0.000495	0.00180
1,2,4-Trimethylbenzene		0.0689		0.000901	0.00180
1,3,5-Trimethylbenzene		0.0219		0.000676	0.00180

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	189	*	70 - 130
Dibromofluoromethane (Surr)	108		70 - 130
1,2-Dichloroethane-d4 (Surr)	110		70 - 130
Toluene-d8 (Surr)	178	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 452

Lab Sample ID: 490-117346-7 Date Sampled: 11/28/2016 1600
Client Matrix: Solid % Moisture: 10.5 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392689	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120816-14.D
Dilution:	1.0			Initial Weight/Volume:	5.819 g
Analysis Date:	12/08/2016 1700			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0640		0.00807	0.0480
Benzene		0.00382		0.000643	0.00192
Bromochloromethane		0.000528	U	0.000528	0.00192
Bromodichloromethane		0.000528	U	0.000528	0.00192
Bromoform		0.000528	U	0.000528	0.00192
Bromomethane		0.00115	U	0.00115	0.00192
2-Butanone (MEK)		0.0149	J	0.00490	0.0480
Carbon disulfide		0.00346	U	0.00346	0.00480
Carbon tetrachloride		0.000643	U	0.000643	0.00192
Chlorobenzene		0.000643	U	0.000643	0.00192
Chloroethane		0.00182	U	0.00182	0.00480
Chloroform		0.000643	U	0.000643	0.00192
Chloromethane		0.000643	U	0.000643	0.00192
cis-1,2-Dichloroethene		0.000643	U	0.000643	0.00192
cis-1,3-Dichloropropene		0.000643	U	0.000643	0.00192
Dibromochloromethane		0.000326	U	0.000326	0.00192
1,2-Dibromoethane		0.000960	U	0.000960	0.00192
Dichlorodifluoromethane		0.000960	U	0.000960	0.00192
1,1-Dichloroethane		0.000643	U	0.000643	0.00192
1,2-Dichloroethane		0.000643	U	0.000643	0.00192
1,1-Dichloroethene		0.000547	U	0.000547	0.00192
1,2-Dichloropropane		0.000903	U	0.000903	0.00192
1,3-Dichloropropane		0.000903	U	0.000903	0.00192
2,2-Dichloropropane		0.000643	U	0.000643	0.00192
1,1-Dichloropropene		0.000490	U	0.000490	0.00192
Ethylbenzene		0.000643	U	0.000643	0.00192
2-Hexanone		0.0160	U	0.0160	0.0480
Iodomethane		0.00643	U	0.00643	0.0192
Isopropylbenzene		0.0154		0.000394	0.00192
Methylene bromide		0.000538	U	0.000538	0.00192
Methylene Chloride		0.000826	U	0.000826	0.00960
4-Methyl-2-pentanone (MIBK)		0.00182	U	0.00182	0.0480
Methyl tert butyl ether		0.000922	U	0.000922	0.00192
m,p-Xylene		0.00680		0.000538	0.00384
o-Xylene		0.00573		0.000643	0.00192
Styrene		0.00106	U	0.00106	0.00192
1,1,1,2-Tetrachloroethane		0.000643	U	0.000643	0.00192
Tetrachloroethene		0.000701	U	0.000701	0.00192
Toluene		0.00340		0.000711	0.00192
trans-1,2-Dichloroethene		0.000643	U	0.000643	0.00192
trans-1,3-Dichloropropene		0.000643	U	0.000643	0.00192
1,1,1-Trichloroethane		0.000883	U	0.000883	0.00192
1,1,2-Trichloroethane		0.00134	U	0.00134	0.00480
Trichloroethene		0.000922	U	0.000922	0.00192
Trichlorofluoromethane		0.000960	U	0.000960	0.00192
Vinyl acetate		0.00422	U	0.00422	0.0192

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 452

Lab Sample ID: 490-117346-7 Date Sampled: 11/28/2016 1600
Client Matrix: Solid % Moisture: 10.5 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392689	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120816-14.D
Dilution:	1.0			Initial Weight/Volume:	5.819 g
Analysis Date:	12/08/2016 1700			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl chloride		0.00106	U	0.00106	0.00192
Xylenes (total)		0.0125		0.00118	0.00576

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	175	*	70 - 130
Dibromofluoromethane (Surr)	106		70 - 130
1,2-Dichloroethane-d4 (Surr)	110		70 - 130
Toluene-d8 (Surr)	188	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 452

Lab Sample ID: 490-117346-7 Date Sampled: 11/28/2016 1600
Client Matrix: Solid % Moisture: 10.5 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392689	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120816-14.D
Dilution:	1.0			Initial Weight/Volume:	5.819 g
Analysis Date:	12/08/2016 1700			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1600				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
96-37-7	Cyclopentane, methyl-	3.67	0.295	J N
110-82-7	Cyclohexane	4.13	0.543	E
108-87-2	Methylcyclohexane	4.94	1.74	E
1640-89-7	Cyclopentane, ethyl-	5.08	0.237	J N
	Unknown	5.82	0.268	J
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.97	0.300	J N
2207-04-7	Cyclohexane, 1,4-dimethyl-, trans-	6.06	0.355	J N
1678-91-7	Cyclohexane, ethyl-	6.45	0.737	J N
1678-92-8	Cyclohexane, propyl-	7.70	0.250	J N
611-14-3	Benzene, 1-ethyl-2-methyl-	8.56	0.229	J N

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 446

Lab Sample ID: 490-117346-8 Date Sampled: 11/28/2016 1430
Client Matrix: Solid % Moisture: 10.2 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-391971	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-22.D
Dilution:	1.0			Initial Weight/Volume:	6.261 g
Analysis Date:	12/06/2016 2103			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.00747	U	0.00747	0.0444
Benzene		0.000596	U	0.000596	0.00178
Bromochloromethane		0.000489	U	0.000489	0.00178
Bromodichloromethane		0.000489	U	0.000489	0.00178
Bromoform		0.000489	U	0.000489	0.00178
Bromomethane		0.00107	U	0.00107	0.00178
2-Butanone (MEK)		0.0628		0.00453	0.0444
Carbon disulfide		0.00727		0.00320	0.00444
Carbon tetrachloride		0.000596	U	0.000596	0.00178
Chlorobenzene		0.000596	U	0.000596	0.00178
Chloroethane		0.00169	U	0.00169	0.00444
Chloroform		0.000596	U	0.000596	0.00178
Chloromethane		0.000596	U	0.000596	0.00178
cis-1,2-Dichloroethene		0.000596	U	0.000596	0.00178
cis-1,3-Dichloropropene		0.000596	U	0.000596	0.00178
Dibromochloromethane		0.000302	U	0.000302	0.00178
1,2-Dibromoethane		0.000889	U	0.000889	0.00178
Dichlorodifluoromethane		0.000889	U	0.000889	0.00178
1,1-Dichloroethane		0.000596	U	0.000596	0.00178
1,2-Dichloroethane		0.000596	U	0.000596	0.00178
1,1-Dichloroethene		0.000507	U	0.000507	0.00178
1,2-Dichloropropane		0.000836	U	0.000836	0.00178
1,3-Dichloropropane		0.000836	U	0.000836	0.00178
2,2-Dichloropropane		0.000596	U	0.000596	0.00178
1,1-Dichloropropene		0.000453	U	0.000453	0.00178
Ethylbenzene		0.000596	U	0.000596	0.00178
2-Hexanone		0.0148	U	0.0148	0.0444
Iodomethane		0.00596	U	0.00596	0.0178
Isopropylbenzene		0.0191		0.000364	0.00178
Methylene bromide		0.000498	U	0.000498	0.00178
Methylene Chloride		0.000764	U	0.000764	0.00889
4-Methyl-2-pentanone (MIBK)		0.00169	U	0.00169	0.0444
Methyl tert butyl ether		0.000853	U	0.000853	0.00178
m,p-Xylene		0.151		0.000498	0.00356
o-Xylene		0.0410		0.000596	0.00178
Styrene		0.000978	U	0.000978	0.00178
1,1,1,2-Tetrachloroethane		0.000596	U	0.000596	0.00178
Tetrachloroethene		0.000649	U	0.000649	0.00178
Toluene		0.000658	U	0.000658	0.00178
trans-1,2-Dichloroethene		0.000596	U	0.000596	0.00178
trans-1,3-Dichloropropene		0.000596	U	0.000596	0.00178
1,1,1-Trichloroethane		0.000818	U	0.000818	0.00178
1,1,2-Trichloroethane		0.00124	U	0.00124	0.00444
Trichloroethene		0.000853	U	0.000853	0.00178
Trichlorofluoromethane		0.000889	U	0.000889	0.00178
Vinyl acetate		0.00391	U	0.00391	0.0178

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 446

Lab Sample ID: 490-117346-8 Date Sampled: 11/28/2016 1430
Client Matrix: Solid % Moisture: 10.2 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-391971	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-22.D
Dilution:	1.0			Initial Weight/Volume:	6.261 g
Analysis Date:	12/06/2016 2103			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl chloride		0.000978	U	0.000978	0.00178
Xylenes (total)		0.192		0.00109	0.00533

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	1679	*	70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
1,2-Dichloroethane-d4 (Surr)	392	*	70 - 130
Toluene-d8 (Surr)	3253	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 446

Lab Sample ID: 490-117346-8 Date Sampled: 11/28/2016 1430
Client Matrix: Solid % Moisture: 10.2 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-391971	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-22.D
Dilution:	1.0			Initial Weight/Volume:	6.261 g
Analysis Date:	12/06/2016 2103			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1430				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
291-64-5	Cycloheptane	4.47	15.1	J N
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	6.00	14.3	J N
	Unknown	6.10	18.0	J
	Unknown	6.54	36.1	J
1678-81-5	Cyclohexane, 1,2,3-trimethyl-, (1.alpha.,2.beta.,3.alpha.)-	6.72	26.3	J N
	Unknown	7.62	14.6	J
	Unknown	7.74	31.3	J
	Unknown	9.74	17.2	J
488-23-3	Benzene, 1,2,3,4-tetramethyl-	10.33	15.2	J N
	Unknown	11.04	13.0	J

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 446

Lab Sample ID: 490-117346-8 Date Sampled: 11/28/2016 1430
Client Matrix: Solid % Moisture: 10.2 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392855	Instrument ID:	HP68
Prep Method:	5035A	Prep Batch:	490-391833	Lab File ID:	12081632.D
Dilution:	1.0			Initial Weight/Volume:	5.865 g
Analysis Date:	12/09/2016 0026			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0382	U	0.0382	0.106
1,2-Dibromo-3-chloropropane		0.0372	U	0.0372	0.266
1,2-Dichlorobenzene		0.0181	U	0.0181	0.106
1,3-Dichlorobenzene		0.0361	U	0.0361	0.106
1,4-Dichlorobenzene		0.0499	U	0.0499	0.106
Hexachlorobutadiene		0.0584	U	0.0584	0.266
Naphthalene		0.0903	U	0.0903	0.266
n-Butylbenzene		1.52		0.0531	0.106
N-Propylbenzene		0.0361	U	0.0361	0.106
o-Chlorotoluene		0.0489	U	0.0489	0.106
p-Chlorotoluene		0.0446	U	0.0446	0.106
p-Isopropyltoluene		0.0361	U	0.0361	0.106
sec-Butylbenzene		0.226		0.0361	0.106
tert-Butylbenzene		0.119		0.0531	0.106
1,1,2,2-Tetrachloroethane		0.0531	U	0.0531	0.106
1,2,3-Trichlorobenzene		0.0202	U	0.0202	0.106
1,2,4-Trichlorobenzene		0.0361	U	0.0361	0.106
1,2,3-Trichloropropane		0.0297	U	0.0297	0.106
1,2,4-Trimethylbenzene		7.27		0.0531	0.106
1,3,5-Trimethylbenzene		13.1		0.0404	0.106

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	128		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 444

Lab Sample ID: 490-117346-9 Date Sampled: 11/28/2016 1400
Client Matrix: Solid % Moisture: 12.0 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-391971	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-23.D
Dilution:	1.0			Initial Weight/Volume:	6.974 g
Analysis Date:	12/06/2016 2133			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.206		0.00684	0.0407
Benzene		0.000546	U	0.000546	0.00163
Bromochloromethane		0.000448	U	0.000448	0.00163
Bromodichloromethane		0.000448	U	0.000448	0.00163
Bromoform		0.000448	U	0.000448	0.00163
Bromomethane		0.000977	U	0.000977	0.00163
2-Butanone (MEK)		0.0435		0.00415	0.0407
Carbon disulfide		0.00293	U	0.00293	0.00407
Carbon tetrachloride		0.000546	U	0.000546	0.00163
Chlorobenzene		0.000546	U	0.000546	0.00163
Chloroethane		0.00155	U	0.00155	0.00407
Chloroform		0.000546	U	0.000546	0.00163
Chloromethane		0.000546	U	0.000546	0.00163
cis-1,2-Dichloroethene		0.000546	U	0.000546	0.00163
cis-1,3-Dichloropropene		0.000546	U	0.000546	0.00163
Dibromochloromethane		0.000277	U	0.000277	0.00163
1,2-Dibromoethane		0.000814	U	0.000814	0.00163
Dichlorodifluoromethane		0.000814	U	0.000814	0.00163
1,1-Dichloroethane		0.000546	U	0.000546	0.00163
1,2-Dichloroethane		0.000546	U	0.000546	0.00163
1,1-Dichloroethene		0.000464	U	0.000464	0.00163
1,2-Dichloropropane		0.000766	U	0.000766	0.00163
1,3-Dichloropropane		0.000766	U	0.000766	0.00163
2,2-Dichloropropane		0.000546	U	0.000546	0.00163
1,1-Dichloropropene		0.000415	U	0.000415	0.00163
Ethylbenzene		0.000546	U	0.000546	0.00163
2-Hexanone		0.0136	U	0.0136	0.0407
Iodomethane		0.00546	U	0.00546	0.0163
Isopropylbenzene		0.0354		0.000334	0.00163
Methylene bromide		0.000456	U	0.000456	0.00163
Methylene Chloride		0.000700	U	0.000700	0.00814
4-Methyl-2-pentanone (MIBK)		0.00155	U	0.00155	0.0407
Methyl tert butyl ether		0.000782	U	0.000782	0.00163
m,p-Xylene		0.0225		0.000456	0.00326
o-Xylene		0.0102		0.000546	0.00163
Styrene		0.000896	U	0.000896	0.00163
1,1,1,2-Tetrachloroethane		0.000546	U	0.000546	0.00163
Tetrachloroethene		0.000595	U	0.000595	0.00163
Toluene		0.00234		0.000603	0.00163
trans-1,2-Dichloroethene		0.000546	U	0.000546	0.00163
trans-1,3-Dichloropropene		0.000546	U	0.000546	0.00163
1,1,1-Trichloroethane		0.000749	U	0.000749	0.00163
1,1,2-Trichloroethane		0.00114	U	0.00114	0.00407
Trichloroethene		0.000782	U	0.000782	0.00163
Trichlorofluoromethane		0.000814	U	0.000814	0.00163
Vinyl acetate		0.00358	U	0.00358	0.0163

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 444

Lab Sample ID: 490-117346-9 Date Sampled: 11/28/2016 1400
Client Matrix: Solid % Moisture: 12.0 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-391971	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-23.D
Dilution:	1.0			Initial Weight/Volume:	6.974 g
Analysis Date:	12/06/2016 2133			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl chloride		0.000896	U	0.000896	0.00163
Xylenes (total)		0.0327		0.00100	0.00489

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	157	*	70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	115		70 - 130
Toluene-d8 (Surr)	465	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 444

Lab Sample ID: 490-117346-9 Date Sampled: 11/28/2016 1400
Client Matrix: Solid % Moisture: 12.0 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-391971	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-23.D
Dilution:	1.0			Initial Weight/Volume:	6.974 g
Analysis Date:	12/06/2016 2133			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1400				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
110-82-7	Cyclohexane	4.13	0.760	E
108-87-2	Methylcyclohexane	4.95	4.73	E
16883-48-0	Cyclopentane, 1,2,4-trimethyl-, (1.alpha.,2.beta.,4.alpha.)-	5.12	0.528	J N
619-99-8	Hexane, 3-ethyl-	5.51	0.427	J N
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.98	0.781	J N
2207-03-6	Cyclohexane, 1,3-dimethyl-, trans-	6.07	0.802	J N
1678-91-7	Cyclohexane, ethyl-	6.46	1.63	J N
7667-60-9	Cyclohexane, 1,2,4-trimethyl-, (1.alpha.,2.beta.,4.beta.)	6.69	0.521	J N
	- Unknown	7.70	0.434	J
91-57-6	2-Methylnaphthalene	12.61	0.506	E *

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 444

Lab Sample ID: 490-117346-9 Date Sampled: 11/28/2016 1400
Client Matrix: Solid % Moisture: 12.0 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392855	Instrument ID:	HP68
Prep Method:	5035A	Prep Batch:	490-391833	Lab File ID:	12081626.D
Dilution:	1.0			Initial Weight/Volume:	6.058 g
Analysis Date:	12/08/2016 2141			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0386	U	0.0386	0.107
1,2-Dibromo-3-chloropropane		0.0376	U	0.0376	0.268
1,2-Dichlorobenzene		0.0182	U	0.0182	0.107
1,3-Dichlorobenzene		0.0365	U	0.0365	0.107
1,4-Dichlorobenzene		0.0505	U	0.0505	0.107
Hexachlorobutadiene		0.0590	U	0.0590	0.268
Naphthalene		0.0912	U	0.0912	0.268
n-Butylbenzene		0.0537	U	0.0537	0.107
N-Propylbenzene		0.114		0.0365	0.107
o-Chlorotoluene		0.0494	U	0.0494	0.107
p-Chlorotoluene		0.0451	U	0.0451	0.107
p-Isopropyltoluene		0.0365	U	0.0365	0.107
sec-Butylbenzene		0.0587	J	0.0365	0.107
tert-Butylbenzene		0.0537	U	0.0537	0.107
1,1,2,2-Tetrachloroethane		0.0537	U	0.0537	0.107
1,2,3-Trichlorobenzene		0.0204	U	0.0204	0.107
1,2,4-Trichlorobenzene		0.0365	U	0.0365	0.107
1,2,3-Trichloropropane		0.0301	U	0.0301	0.107
1,2,4-Trimethylbenzene		0.0608	J	0.0537	0.107
1,3,5-Trimethylbenzene		0.0803	J	0.0408	0.107

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	92		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: TP-313-6-7

Lab Sample ID: 490-117346-10 Date Sampled: 11/28/2016 1145
Client Matrix: Solid % Moisture: 48.8 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-391971	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-24.D
Dilution:	1.0			Initial Weight/Volume:	4.676 g
Analysis Date:	12/06/2016 2204			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1145				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.132		0.0175	0.104
Benzene		0.0212		0.00140	0.00418
Bromochloromethane		0.00115	U	0.00115	0.00418
Bromodichloromethane		0.00115	U	0.00115	0.00418
Bromoform		0.00115	U	0.00115	0.00418
Bromomethane		0.00251	U	0.00251	0.00418
2-Butanone (MEK)		0.0215	J	0.0106	0.104
Carbon disulfide		0.00752	U	0.00752	0.0104
Carbon tetrachloride		0.00140	U	0.00140	0.00418
Chlorobenzene		0.00140	U	0.00140	0.00418
Chloroethane		0.00397	U	0.00397	0.0104
Chloroform		0.00140	U	0.00140	0.00418
Chloromethane		0.00140	U	0.00140	0.00418
cis-1,2-Dichloroethene		0.00140	U	0.00140	0.00418
cis-1,3-Dichloropropene		0.00140	U	0.00140	0.00418
Dibromochloromethane		0.000710	U	0.000710	0.00418
1,2-Dibromoethane		0.00209	U	0.00209	0.00418
Dichlorodifluoromethane		0.00209	U	0.00209	0.00418
1,1-Dichloroethane		0.00140	U	0.00140	0.00418
1,2-Dichloroethane		0.00140	U	0.00140	0.00418
1,1-Dichloroethene		0.00119	U	0.00119	0.00418
1,2-Dichloropropane		0.00196	U	0.00196	0.00418
1,3-Dichloropropane		0.00196	U	0.00196	0.00418
2,2-Dichloropropane		0.00140	U	0.00140	0.00418
1,1-Dichloropropene		0.00106	U	0.00106	0.00418
Ethylbenzene		0.00140	U	0.00140	0.00418
2-Hexanone		0.0349	U	0.0349	0.104
Iodomethane		0.0140	U	0.0140	0.0418
Isopropylbenzene		0.000856	U	0.000856	0.00418
Methylene bromide		0.00117	U	0.00117	0.00418
Methylene Chloride		0.00180	U	0.00180	0.0209
4-Methyl-2-pentanone (MIBK)		0.00397	U	0.00397	0.104
Methyl tert butyl ether		0.00200	U	0.00200	0.00418
m,p-Xylene		0.00908		0.00117	0.00835
o-Xylene		0.00289	J	0.00140	0.00418
Styrene		0.00230	U	0.00230	0.00418
1,1,1,2-Tetrachloroethane		0.00140	U	0.00140	0.00418
Tetrachloroethene		0.00152	U	0.00152	0.00418
Toluene		0.00477		0.00154	0.00418
trans-1,2-Dichloroethene		0.00140	U	0.00140	0.00418
trans-1,3-Dichloropropene		0.00140	U	0.00140	0.00418
1,1,1-Trichloroethane		0.00192	U	0.00192	0.00418
1,1,2-Trichloroethane		0.00292	U	0.00292	0.0104
Trichloroethene		0.00200	U	0.00200	0.00418
Trichlorofluoromethane		0.00209	U	0.00209	0.00418
Vinyl acetate		0.00919	U	0.00919	0.0418

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: TP-313-6-7

Lab Sample ID: 490-117346-10 Date Sampled: 11/28/2016 1145
Client Matrix: Solid % Moisture: 48.8 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-391971	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-24.D
Dilution:	1.0			Initial Weight/Volume:	4.676 g
Analysis Date:	12/06/2016 2204			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1145				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl chloride		0.00230	U	0.00230	0.00418
Xylenes (total)		0.0120	J	0.00257	0.0125

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	159	*	70 - 130
Dibromofluoromethane (Surr)	106		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
Toluene-d8 (Surr)	133	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: TP-313-6-7

Lab Sample ID: 490-117346-10 Date Sampled: 11/28/2016 1145
Client Matrix: Solid % Moisture: 48.8 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-391971	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-24.D
Dilution:	1.0			Initial Weight/Volume:	4.676 g
Analysis Date:	12/06/2016 2204			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1145				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
112-40-3	Dodecane	10.73	0.372	J N
	Unknown	11.57	0.273	J
629-50-5	Tridecane	11.83	0.337	J N
	Unknown	12.42	0.278	J
629-59-4	Tetradecane	12.73	1.05	J N
638-36-8	Hexadecane, 2,6,10,14-tetramethyl-	13.28	1.09	J N
1127-76-0	Naphthalene, 1-ethyl-	13.50	0.379	J N
571-61-9	Naphthalene, 1,5-dimethyl-	13.63	0.492	J N
581-40-8	Naphthalene, 2,3-dimethyl-	13.80	1.10	J N
581-40-8	Naphthalene, 2,3-dimethyl-	14.08	0.379	J N

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: TP-313-6-7

Lab Sample ID: 490-117346-10 Date Sampled: 11/28/2016 1145
Client Matrix: Solid % Moisture: 48.8 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392855	Instrument ID:	HP68
Prep Method:	5035A	Prep Batch:	490-391833	Lab File ID:	12081625.D
Dilution:	1.0			Initial Weight/Volume:	4.914 g
Analysis Date:	12/08/2016 2113			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1145				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.106	U	0.106	0.294
1,2-Dibromo-3-chloropropane		0.103	U	0.103	0.735
1,2-Dichlorobenzene		0.0500	U	0.0500	0.294
1,3-Dichlorobenzene		0.0999	U	0.0999	0.294
1,4-Dichlorobenzene		0.138	U	0.138	0.294
Hexachlorobutadiene		0.162	U	0.162	0.735
Naphthalene		0.250	U	0.250	0.735
n-Butylbenzene		0.147	U	0.147	0.294
N-Propylbenzene		0.0999	U	0.0999	0.294
o-Chlorotoluene		0.135	U	0.135	0.294
p-Chlorotoluene		0.123	U	0.123	0.294
p-Isopropyltoluene		0.0999	U	0.0999	0.294
sec-Butylbenzene		0.0999	U	0.0999	0.294
tert-Butylbenzene		0.147	U	0.147	0.294
1,1,2,2-Tetrachloroethane		0.147	U	0.147	0.294
1,2,3-Trichlorobenzene		0.0558	U	0.0558	0.294
1,2,4-Trichlorobenzene		0.0999	U	0.0999	0.294
1,2,3-Trichloropropane		0.0823	U	0.0823	0.294
1,2,4-Trimethylbenzene		0.147	U	0.147	0.294
1,3,5-Trimethylbenzene		0.112	U	0.112	0.294

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: Trip Blank

Lab Sample ID: 490-117346-11 Date Sampled: 11/28/2016 0001
Client Matrix: Solid Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-391971	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-15.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Analysis Date:	12/06/2016 1728			Final Weight/Volume:	5.0 mL
Prep Date:	12/01/2016 0001				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.00840	U	0.00840	0.0500
Benzene		0.000670	U	0.000670	0.00200
Bromobenzene		0.000720	U	0.000720	0.00200
Bromochloromethane		0.000550	U	0.000550	0.00200
Bromodichloromethane		0.000550	U	0.000550	0.00200
Bromoform		0.000550	U	0.000550	0.00200
Bromomethane		0.00120	U	0.00120	0.00200
2-Butanone (MEK)		0.00510	U	0.00510	0.0500
Carbon disulfide		0.00360	U	0.00360	0.00500
Carbon tetrachloride		0.000670	U	0.000670	0.00200
Chlorobenzene		0.000670	U	0.000670	0.00200
Chloroethane		0.00190	U	0.00190	0.00500
Chloroform		0.000670	U	0.000670	0.00200
Chloromethane		0.000670	U	0.000670	0.00200
cis-1,2-Dichloroethene		0.000670	U	0.000670	0.00200
cis-1,3-Dichloropropene		0.000670	U	0.000670	0.00200
Dibromochloromethane		0.000340	U	0.000340	0.00200
1,2-Dibromo-3-chloropropane		0.000700	U	0.000700	0.00500
1,2-Dibromoethane		0.00100	U	0.00100	0.00200
1,2-Dichlorobenzene		0.000340	U	0.000340	0.00200
1,3-Dichlorobenzene		0.000670	U	0.000670	0.00200
1,4-Dichlorobenzene		0.000670	U	0.000670	0.00200
Dichlorodifluoromethane		0.00100	U	0.00100	0.00200
1,1-Dichloroethane		0.000670	U	0.000670	0.00200
1,2-Dichloroethane		0.000670	U	0.000670	0.00200
1,1-Dichloroethene		0.000570	U	0.000570	0.00200
1,2-Dichloropropane		0.000940	U	0.000940	0.00200
1,3-Dichloropropane		0.000940	U	0.000940	0.00200
2,2-Dichloropropane		0.000670	U	0.000670	0.00200
1,1-Dichloropropene		0.000510	U	0.000510	0.00200
Ethylbenzene		0.000670	U	0.000670	0.00200
Hexachlorobutadiene		0.00114	U	0.00114	0.00500
2-Hexanone		0.0167	U	0.0167	0.0500
Iodomethane		0.00670	U	0.00670	0.0200
Isopropylbenzene		0.000410	U	0.000410	0.00200
Methylene bromide		0.000560	U	0.000560	0.00200
Methylene Chloride		0.00122	J	0.000860	0.0100
4-Methyl-2-pentanone (MIBK)		0.00190	U	0.00190	0.0500
Methyl tert butyl ether		0.000960	U	0.000960	0.00200
m,p-Xylene		0.000560	U	0.000560	0.00400
Naphthalene		0.00170	U	0.00170	0.00500
n-Butylbenzene		0.000980	U	0.000980	0.00200
N-Propylbenzene		0.000670	U	0.000670	0.00200
o-Chlorotoluene		0.000890	U	0.000890	0.00200
o-Xylene		0.000670	U	0.000670	0.00200
p-Chlorotoluene		0.000840	U	0.000840	0.00200

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: **Trip Blank**

Lab Sample ID: 490-117346-11 Date Sampled: 11/28/2016 0001
Client Matrix: Solid Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-391971	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-15.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Analysis Date:	12/06/2016 1728			Final Weight/Volume:	5.0 mL
Prep Date:	12/01/2016 0001				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000670	U	0.000670	0.00200
sec-Butylbenzene		0.000670	U	0.000670	0.00200
Styrene		0.00110	U	0.00110	0.00200
tert-Butylbenzene		0.000900	U	0.000900	0.00200
1,1,1,2-Tetrachloroethane		0.000670	U	0.000670	0.00200
1,1,2,2-Tetrachloroethane		0.00100	U	0.00100	0.00200
Tetrachloroethene		0.000730	U	0.000730	0.00200
Toluene		0.000740	U	0.000740	0.00200
trans-1,2-Dichloroethene		0.000670	U	0.000670	0.00200
trans-1,3-Dichloropropene		0.000670	U	0.000670	0.00200
1,2,3-Trichlorobenzene		0.000380	U	0.000380	0.00200
1,2,4-Trichlorobenzene		0.000670	U	0.000670	0.00200
1,1,1-Trichloroethane		0.000920	U	0.000920	0.00200
1,1,2-Trichloroethane		0.00140	U	0.00140	0.00500
Trichloroethene		0.000960	U	0.000960	0.00200
Trichlorofluoromethane		0.00100	U	0.00100	0.00200
1,2,3-Trichloropropane		0.000550	U	0.000550	0.00200
1,2,4-Trimethylbenzene		0.00100	U	0.00100	0.00200
1,3,5-Trimethylbenzene		0.000750	U	0.000750	0.00200
Vinyl acetate		0.00440	U	0.00440	0.0200
Vinyl chloride		0.00110	U	0.00110	0.00200
Xylenes (total)		0.00123	U	0.00123	0.00600

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: **Trip Blank**

Lab Sample ID: 490-117346-11 Date Sampled: 11/28/2016 0001
Client Matrix: Solid Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-391971	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-15.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Analysis Date:	12/06/2016 1728			Final Weight/Volume:	5.0 mL
Prep Date:	12/01/2016 0001				

Tentatively Identified Compounds **Number TIC's Found: 0**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 447

Lab Sample ID: 490-117346-1 Date Sampled: 11/28/2016 1500
Client Matrix: Solid % Moisture: 17.1 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392458	Lab File ID:	120616-24.D
Dilution:	1.0			Initial Weight/Volume:	30.47 g
Analysis Date:	12/14/2016 2035			Final Weight/Volume:	1.00 mL
Prep Date:	12/07/2016 1213			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0380	U	0.0380	0.0795
Acenaphthylene		0.0344	U	0.0344	0.0795
Aniline		0.300	U	0.300	0.795
Anthracene		0.0344	U	0.0344	0.0795
Benzidine		0.242	U	0.242	0.395
Benzo(a)anthracene		0.0356	U	0.0356	0.0795
Benzo(a)pyrene		0.0321	U	0.0321	0.0795
Benzo(b)fluoranthene		0.0332	U	0.0332	0.0795
Benzo(g,h,i)perylene		0.0392	U	0.0392	0.0795
Benzoic acid		0.0712	U	0.0712	0.395
Benzo(k)fluoranthene		0.0321	U	0.0321	0.0795
Benzyl alcohol		0.230	U	0.230	0.395
Bis(2-chloroethoxy)methane		0.237	U	0.237	0.395
Bis(2-chloroethyl)ether		0.253	U	0.253	0.395
bis (2-chloroisopropyl) ether		0.235	U	0.235	0.395
Bis(2-ethylhexyl)phthalate		0.246	U	0.246	0.395
4-Bromophenyl phenyl ether		0.243	U	0.243	0.395
Butyl benzyl phthalate		0.255	U	0.255	0.395
Carbazole		0.246	U	0.246	0.395
4-Chloroaniline		0.269	U	0.269	0.395
4-Chloro-3-methylphenol		0.199	U	0.199	0.395
2-Chloronaphthalene		0.248	U	0.248	0.395
2-Chlorophenol		0.227	U	0.227	0.395
4-Chlorophenyl phenyl ether		0.239	U	0.239	0.395
Chrysene		0.0439	U	0.0439	0.0795
Dibenzo(a,h)anthracene		0.0380	U	0.0380	0.0795
Dibenzofuran		0.249	U	0.249	0.395
1,2-Dichlorobenzene		0.226	U	0.226	0.395
1,3-Dichlorobenzene		0.226	U	0.226	0.395
1,4-Dichlorobenzene		0.233	U	0.233	0.395
3,3'-Dichlorobenzidine		0.242	U	0.242	0.795
2,4-Dichlorophenol		0.208	U	0.208	0.395
Diethyl phthalate		0.252	U	0.252	0.395
2,4-Dimethylphenol		0.398	U	0.398	0.795
Dimethyl phthalate		0.246	U	0.246	0.395
Di-n-butyl phthalate		0.250	U	0.250	0.395
4,6-Dinitro-o-cresol		0.272	U	0.272	0.395
2,4-Dinitrophenol		0.298	U	0.298	0.395
2,4-Dinitrotoluene		0.247	U	0.247	0.395
2,6-Dinitrotoluene		0.265	U	0.265	0.395
Di-n-octyl phthalate		0.211	U	0.211	0.395
1,2-Diphenylhydrazine (as Azobenzene)		0.278	U	0.278	0.395
Fluoranthene		0.0404	U	0.0404	0.0795
Fluorene		0.0717	J	0.0344	0.0795
Hexachlorobenzene		0.297	U	0.297	0.395
Hexachlorobutadiene		0.198	U	0.198	0.395

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 447

Lab Sample ID: 490-117346-1 Date Sampled: 11/28/2016 1500
Client Matrix: Solid % Moisture: 17.1 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392458	Lab File ID:	120616-24.D
Dilution:	1.0			Initial Weight/Volume:	30.47 g
Analysis Date:	12/14/2016 2035			Final Weight/Volume:	1.00 mL
Prep Date:	12/07/2016 1213			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.178	U	0.178	0.395
Hexachloroethane		0.215	U	0.215	0.395
Ideno(1,2,3-cd)pyrene		0.0344	U	0.0344	0.0795
Isophorone		0.223	U	0.223	0.395
1-Methylnaphthalene		0.500		0.0332	0.0795
2-Methylnaphthalene		0.0309	U	0.0309	0.0795
Naphthalene		0.136		0.0344	0.0795
2-Nitroaniline		0.246	U	0.246	0.395
3-Nitroaniline		0.273	U	0.273	0.795
4-Nitroaniline		0.283	U	0.283	0.795
Nitrobenzene		0.239	U	0.239	0.395
2-Nitrophenol		0.288	U	0.288	0.395
4-Nitrophenol		0.453	U	0.453	0.795
N-Nitrosodimethylamine		0.0237	U	0.0237	0.395
N-Nitrosodi-n-propylamine		0.230	U	0.230	0.395
N-Nitrosodiphenylamine		0.0629	U	0.0629	0.395
Pentachlorophenol		0.316	U	0.316	0.795
Phenanthrene		0.158		0.0404	0.0795
Phenol		0.241	U	0.241	0.395
Pyrene		0.0404	U	0.0404	0.0795
Pyridine		0.236	U	0.236	0.795
1,2,4-Trichlorobenzene		0.215	U	0.215	0.395
2,4,5-Trichlorophenol		0.259	U	0.259	0.395
2,4,6-Trichlorophenol		0.228	U	0.228	0.395

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	78		29 - 120
2-Fluorophenol (Surr)	52		10 - 120
Nitrobenzene-d5 (Surr)	70		27 - 120
Phenol-d5 (Surr)	63		10 - 120
Terphenyl-d14 (Surr)	79		13 - 120
2,4,6-Tribromophenol (Surr)	86		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 450

Lab Sample ID: 490-117346-2 Date Sampled: 11/28/2016 1530
Client Matrix: Solid % Moisture: 11.8 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392458	Lab File ID:	120616-27.D
Dilution:	1.0			Initial Weight/Volume:	30.08 g
Analysis Date:	12/14/2016 2129			Final Weight/Volume:	1.00 mL
Prep Date:	12/07/2016 1213			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0362	U	0.0362	0.0758
Acenaphthylene		0.0328	U	0.0328	0.0758
Aniline		0.286	U	0.286	0.758
Anthracene		0.0328	U	0.0328	0.0758
Benzidine		0.231	U	0.231	0.377
Benzo(a)anthracene		0.0339	U	0.0339	0.0758
Benzo(a)pyrene		0.0305	U	0.0305	0.0758
Benzo(b)fluoranthene		0.0317	U	0.0317	0.0758
Benzo(g,h,i)perylene		0.0373	U	0.0373	0.0758
Benzoic acid		0.0679	U	0.0679	0.377
Benzo(k)fluoranthene		0.0305	U	0.0305	0.0758
Benzyl alcohol		0.219	U	0.219	0.377
Bis(2-chloroethoxy)methane		0.226	U	0.226	0.377
Bis(2-chloroethyl)ether		0.241	U	0.241	0.377
bis (2-chloroisopropyl) ether		0.224	U	0.224	0.377
Bis(2-ethylhexyl)phthalate		0.234	U	0.234	0.377
4-Bromophenyl phenyl ether		0.232	U	0.232	0.377
Butyl benzyl phthalate		0.243	U	0.243	0.377
Carbazole		0.234	U	0.234	0.377
4-Chloroaniline		0.257	U	0.257	0.377
4-Chloro-3-methylphenol		0.190	U	0.190	0.377
2-Chloronaphthalene		0.236	U	0.236	0.377
2-Chlorophenol		0.216	U	0.216	0.377
4-Chlorophenyl phenyl ether		0.227	U	0.227	0.377
Chrysene		0.0419	U	0.0419	0.0758
Dibenzo(a,h)anthracene		0.0362	U	0.0362	0.0758
Dibenzofuran		0.238	U	0.238	0.377
1,2-Dichlorobenzene		0.215	U	0.215	0.377
1,3-Dichlorobenzene		0.215	U	0.215	0.377
1,4-Dichlorobenzene		0.222	U	0.222	0.377
3,3'-Dichlorobenzidine		0.231	U	0.231	0.758
2,4-Dichlorophenol		0.198	U	0.198	0.377
Diethyl phthalate		0.240	U	0.240	0.377
2,4-Dimethylphenol		0.379	U	0.379	0.758
Dimethyl phthalate		0.234	U	0.234	0.377
Di-n-butyl phthalate		0.239	U	0.239	0.377
4,6-Dinitro-o-cresol		0.259	U	0.259	0.377
2,4-Dinitrophenol		0.284	U	0.284	0.377
2,4-Dinitrotoluene		0.235	U	0.235	0.377
2,6-Dinitrotoluene		0.252	U	0.252	0.377
Di-n-octyl phthalate		0.201	U	0.201	0.377
1,2-Diphenylhydrazine (as Azobenzene)		0.265	U	0.265	0.377
Fluoranthene		0.0385	U	0.0385	0.0758
Fluorene		0.0328	U	0.0328	0.0758
Hexachlorobenzene		0.283	U	0.283	0.377
Hexachlorobutadiene		0.189	U	0.189	0.377

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 450

Lab Sample ID: 490-117346-2 Date Sampled: 11/28/2016 1530
Client Matrix: Solid % Moisture: 11.8 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392458	Lab File ID:	120616-27.D
Dilution:	1.0			Initial Weight/Volume:	30.08 g
Analysis Date:	12/14/2016 2129			Final Weight/Volume:	1.00 mL
Prep Date:	12/07/2016 1213			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.170	U	0.170	0.377
Hexachloroethane		0.205	U	0.205	0.377
Ideno(1,2,3-cd)pyrene		0.0328	U	0.0328	0.0758
Isophorone		0.213	U	0.213	0.377
1-Methylnaphthalene		0.0317	U	0.0317	0.0758
2-Methylnaphthalene		0.0294	U	0.0294	0.0758
Naphthalene		0.0328	U	0.0328	0.0758
2-Nitroaniline		0.234	U	0.234	0.377
3-Nitroaniline		0.260	U	0.260	0.758
4-Nitroaniline		0.269	U	0.269	0.758
Nitrobenzene		0.227	U	0.227	0.377
2-Nitrophenol		0.275	U	0.275	0.377
4-Nitrophenol		0.432	U	0.432	0.758
N-Nitrosodimethylamine		0.0226	U	0.0226	0.377
N-Nitrosodi-n-propylamine		0.219	U	0.219	0.377
N-Nitrosodiphenylamine		0.0600	U	0.0600	0.377
Pentachlorophenol		0.301	U	0.301	0.758
Phenanthrene		0.0385	U	0.0385	0.0758
Phenol		0.230	U	0.230	0.377
Pyrene		0.0385	U	0.0385	0.0758
Pyridine		0.225	U	0.225	0.758
1,2,4-Trichlorobenzene		0.205	U	0.205	0.377
2,4,5-Trichlorophenol		0.247	U	0.247	0.377
2,4,6-Trichlorophenol		0.217	U	0.217	0.377

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	74		29 - 120
2-Fluorophenol (Surr)	56		10 - 120
Nitrobenzene-d5 (Surr)	63		27 - 120
Phenol-d5 (Surr)	64		10 - 120
Terphenyl-d14 (Surr)	87		13 - 120
2,4,6-Tribromophenol (Surr)	99		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 445

Lab Sample ID: 490-117346-3 Date Sampled: 11/28/2016 1430
Client Matrix: Solid % Moisture: 10.1 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392458	Lab File ID:	120616-28.D
Dilution:	1.0			Initial Weight/Volume:	30.42 g
Analysis Date:	12/14/2016 2146			Final Weight/Volume:	1.00 mL
Prep Date:	12/07/2016 1213			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0351	U	0.0351	0.0735
Acenaphthylene		0.0318	U	0.0318	0.0735
Aniline		0.278	U	0.278	0.735
Anthracene		0.0318	U	0.0318	0.0735
Benzidine		0.224	U	0.224	0.365
Benzo(a)anthracene		0.0329	U	0.0329	0.0735
Benzo(a)pyrene		0.0296	U	0.0296	0.0735
Benzo(b)fluoranthene		0.0307	U	0.0307	0.0735
Benzo(g,h,i)perylene		0.0362	U	0.0362	0.0735
Benzoic acid		0.0658	U	0.0658	0.365
Benzo(k)fluoranthene		0.0296	U	0.0296	0.0735
Benzyl alcohol		0.213	U	0.213	0.365
Bis(2-chloroethoxy)methane		0.219	U	0.219	0.365
Bis(2-chloroethyl)ether		0.234	U	0.234	0.365
bis (2-chloroisopropyl) ether		0.217	U	0.217	0.365
Bis(2-ethylhexyl)phthalate		0.227	U	0.227	0.365
4-Bromophenyl phenyl ether		0.225	U	0.225	0.365
Butyl benzyl phthalate		0.236	U	0.236	0.365
Carbazole		0.227	U	0.227	0.365
4-Chloroaniline		0.249	U	0.249	0.365
4-Chloro-3-methylphenol		0.184	U	0.184	0.365
2-Chloronaphthalene		0.229	U	0.229	0.365
2-Chlorophenol		0.210	U	0.210	0.365
4-Chlorophenyl phenyl ether		0.221	U	0.221	0.365
Chrysene		0.0406	U	0.0406	0.0735
Dibenzo(a,h)anthracene		0.0351	U	0.0351	0.0735
Dibenzofuran		0.230	U	0.230	0.365
1,2-Dichlorobenzene		0.209	U	0.209	0.365
1,3-Dichlorobenzene		0.209	U	0.209	0.365
1,4-Dichlorobenzene		0.215	U	0.215	0.365
3,3'-Dichlorobenzidine		0.224	U	0.224	0.735
2,4-Dichlorophenol		0.192	U	0.192	0.365
Diethyl phthalate		0.233	U	0.233	0.365
2,4-Dimethylphenol		0.368	U	0.368	0.735
Dimethyl phthalate		0.227	U	0.227	0.365
Di-n-butyl phthalate		0.232	U	0.232	0.365
4,6-Dinitro-o-cresol		0.251	U	0.251	0.365
2,4-Dinitrophenol		0.275	U	0.275	0.365
2,4-Dinitrotoluene		0.228	U	0.228	0.365
2,6-Dinitrotoluene		0.245	U	0.245	0.365
Di-n-octyl phthalate		0.195	U	0.195	0.365
1,2-Diphenylhydrazine (as Azobenzene)		0.257	U	0.257	0.365
Fluoranthene		0.0373	U	0.0373	0.0735
Fluorene		0.0567	J	0.0318	0.0735
Hexachlorobenzene		0.274	U	0.274	0.365
Hexachlorobutadiene		0.183	U	0.183	0.365

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 445

Lab Sample ID: 490-117346-3 Date Sampled: 11/28/2016 1430
Client Matrix: Solid % Moisture: 10.1 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392458	Lab File ID:	120616-28.D
Dilution:	1.0			Initial Weight/Volume:	30.42 g
Analysis Date:	12/14/2016 2146			Final Weight/Volume:	1.00 mL
Prep Date:	12/07/2016 1213			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.165	U	0.165	0.365
Hexachloroethane		0.199	U	0.199	0.365
Ideno(1,2,3-cd)pyrene		0.0318	U	0.0318	0.0735
Isophorone		0.206	U	0.206	0.365
1-Methylnaphthalene		0.231		0.0307	0.0735
2-Methylnaphthalene		0.330		0.0285	0.0735
Naphthalene		0.0458	J	0.0318	0.0735
2-Nitroaniline		0.227	U	0.227	0.365
3-Nitroaniline		0.252	U	0.252	0.735
4-Nitroaniline		0.261	U	0.261	0.735
Nitrobenzene		0.221	U	0.221	0.365
2-Nitrophenol		0.267	U	0.267	0.365
4-Nitrophenol		0.419	U	0.419	0.735
N-Nitrosodimethylamine		0.0219	U	0.0219	0.365
N-Nitrosodi-n-propylamine		0.213	U	0.213	0.365
N-Nitrosodiphenylamine		0.0582	U	0.0582	0.365
Pentachlorophenol		0.292	U	0.292	0.735
Phenanthrene		0.135		0.0373	0.0735
Phenol		0.223	U	0.223	0.365
Pyrene		0.0373	U	0.0373	0.0735
Pyridine		0.218	U	0.218	0.735
1,2,4-Trichlorobenzene		0.199	U	0.199	0.365
2,4,5-Trichlorophenol		0.239	U	0.239	0.365
2,4,6-Trichlorophenol		0.211	U	0.211	0.365

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	72		29 - 120
2-Fluorophenol (Surr)	49		10 - 120
Nitrobenzene-d5 (Surr)	56		27 - 120
Phenol-d5 (Surr)	56		10 - 120
Terphenyl-d14 (Surr)	71		13 - 120
2,4,6-Tribromophenol (Surr)	87		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 443

Lab Sample ID: 490-117346-4 Date Sampled: 11/28/2016 1400
Client Matrix: Solid % Moisture: 11.3 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392458	Lab File ID:	120616-29.D
Dilution:	1.0			Initial Weight/Volume:	30.05 g
Analysis Date:	12/14/2016 2204			Final Weight/Volume:	1.00 mL
Prep Date:	12/07/2016 1213			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0360	U	0.0360	0.0754
Acenaphthylene		0.0326	U	0.0326	0.0754
Aniline		0.285	U	0.285	0.754
Anthracene		0.0326	U	0.0326	0.0754
Benzidine		0.230	U	0.230	0.375
Benzo(a)anthracene		0.0338	U	0.0338	0.0754
Benzo(a)pyrene		0.0304	U	0.0304	0.0754
Benzo(b)fluoranthene		0.0315	U	0.0315	0.0754
Benzo(g,h,i)perylene		0.0372	U	0.0372	0.0754
Benzoic acid		0.0675	U	0.0675	0.375
Benzo(k)fluoranthene		0.0304	U	0.0304	0.0754
Benzyl alcohol		0.218	U	0.218	0.375
Bis(2-chloroethoxy)methane		0.225	U	0.225	0.375
Bis(2-chloroethyl)ether		0.240	U	0.240	0.375
bis (2-chloroisopropyl) ether		0.223	U	0.223	0.375
Bis(2-ethylhexyl)phthalate		0.233	U	0.233	0.375
4-Bromophenyl phenyl ether		0.231	U	0.231	0.375
Butyl benzyl phthalate		0.242	U	0.242	0.375
Carbazole		0.233	U	0.233	0.375
4-Chloroaniline		0.256	U	0.256	0.375
4-Chloro-3-methylphenol		0.189	U	0.189	0.375
2-Chloronaphthalene		0.235	U	0.235	0.375
2-Chlorophenol		0.215	U	0.215	0.375
4-Chlorophenyl phenyl ether		0.226	U	0.226	0.375
Chrysene		0.0417	U	0.0417	0.0754
Dibenzo(a,h)anthracene		0.0360	U	0.0360	0.0754
Dibenzofuran		0.236	U	0.236	0.375
1,2-Dichlorobenzene		0.214	U	0.214	0.375
1,3-Dichlorobenzene		0.214	U	0.214	0.375
1,4-Dichlorobenzene		0.221	U	0.221	0.375
3,3'-Dichlorobenzidine		0.230	U	0.230	0.754
2,4-Dichlorophenol		0.197	U	0.197	0.375
Diethyl phthalate		0.239	U	0.239	0.375
2,4-Dimethylphenol		0.377	U	0.377	0.754
Dimethyl phthalate		0.233	U	0.233	0.375
Di-n-butyl phthalate		0.238	U	0.238	0.375
4,6-Dinitro-o-cresol		0.258	U	0.258	0.375
2,4-Dinitrophenol		0.283	U	0.283	0.375
2,4-Dinitrotoluene		0.234	U	0.234	0.375
2,6-Dinitrotoluene		0.251	U	0.251	0.375
Di-n-octyl phthalate		0.200	U	0.200	0.375
1,2-Diphenylhydrazine (as Azobenzene)		0.263	U	0.263	0.375
Fluoranthene		0.0383	U	0.0383	0.0754
Fluorene		0.0326	U	0.0326	0.0754
Hexachlorobenzene		0.281	U	0.281	0.375
Hexachlorobutadiene		0.188	U	0.188	0.375

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 443

Lab Sample ID: 490-117346-4 Date Sampled: 11/28/2016 1400
Client Matrix: Solid % Moisture: 11.3 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392458	Lab File ID:	120616-29.D
Dilution:	1.0			Initial Weight/Volume:	30.05 g
Analysis Date:	12/14/2016 2204			Final Weight/Volume:	1.00 mL
Prep Date:	12/07/2016 1213			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.169	U	0.169	0.375
Hexachloroethane		0.204	U	0.204	0.375
Ideno(1,2,3-cd)pyrene		0.0326	U	0.0326	0.0754
Isophorone		0.212	U	0.212	0.375
1-Methylnaphthalene		0.308		0.0315	0.0754
2-Methylnaphthalene		0.0293	U	0.0293	0.0754
Naphthalene		0.0326	U	0.0326	0.0754
2-Nitroaniline		0.233	U	0.233	0.375
3-Nitroaniline		0.259	U	0.259	0.754
4-Nitroaniline		0.268	U	0.268	0.754
Nitrobenzene		0.226	U	0.226	0.375
2-Nitrophenol		0.274	U	0.274	0.375
4-Nitrophenol		0.430	U	0.430	0.754
N-Nitrosodimethylamine		0.0225	U	0.0225	0.375
N-Nitrosodi-n-propylamine		0.218	U	0.218	0.375
N-Nitrosodiphenylamine		0.0597	U	0.0597	0.375
Pentachlorophenol		0.299	U	0.299	0.754
Phenanthrene		0.386		0.0383	0.0754
Phenol		0.229	U	0.229	0.375
Pyrene		0.0383	U	0.0383	0.0754
Pyridine		0.224	U	0.224	0.754
1,2,4-Trichlorobenzene		0.204	U	0.204	0.375
2,4,5-Trichlorophenol		0.245	U	0.245	0.375
2,4,6-Trichlorophenol		0.216	U	0.216	0.375

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	87		29 - 120
2-Fluorophenol (Surr)	56		10 - 120
Nitrobenzene-d5 (Surr)	76		27 - 120
Phenol-d5 (Surr)	64		10 - 120
Terphenyl-d14 (Surr)	86		13 - 120
2,4,6-Tribromophenol (Surr)	94		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 449

Lab Sample ID: 490-117346-5 Date Sampled: 11/28/2016 1530
Client Matrix: Solid % Moisture: 11.1 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392458	Lab File ID:	120616-30.D
Dilution:	1.0			Initial Weight/Volume:	30.27 g
Analysis Date:	12/14/2016 2222			Final Weight/Volume:	1.00 mL
Prep Date:	12/07/2016 1213			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0357	U	0.0357	0.0747
Acenaphthylene		0.0323	U	0.0323	0.0747
Aniline		0.282	U	0.282	0.747
Anthracene		0.0323	U	0.0323	0.0747
Benzidine		0.228	U	0.228	0.371
Benzo(a)anthracene		0.0335	U	0.0335	0.0747
Benzo(a)pyrene		0.0301	U	0.0301	0.0747
Benzo(b)fluoranthene		0.0312	U	0.0312	0.0747
Benzo(g,h,i)perylene		0.0368	U	0.0368	0.0747
Benzoic acid		0.0669	U	0.0669	0.371
Benzo(k)fluoranthene		0.0301	U	0.0301	0.0747
Benzyl alcohol		0.216	U	0.216	0.371
Bis(2-chloroethoxy)methane		0.223	U	0.223	0.371
Bis(2-chloroethyl)ether		0.238	U	0.238	0.371
bis (2-chloroisopropyl) ether		0.221	U	0.221	0.371
Bis(2-ethylhexyl)phthalate		0.231	U	0.231	0.371
4-Bromophenyl phenyl ether		0.229	U	0.229	0.371
Butyl benzyl phthalate		0.240	U	0.240	0.371
Carbazole		0.231	U	0.231	0.371
4-Chloroaniline		0.253	U	0.253	0.371
4-Chloro-3-methylphenol		0.187	U	0.187	0.371
2-Chloronaphthalene		0.233	U	0.233	0.371
2-Chlorophenol		0.213	U	0.213	0.371
4-Chlorophenyl phenyl ether		0.224	U	0.224	0.371
Chrysene		0.0413	U	0.0413	0.0747
Dibenzo(a,h)anthracene		0.0357	U	0.0357	0.0747
Dibenzofuran		0.234	U	0.234	0.371
1,2-Dichlorobenzene		0.212	U	0.212	0.371
1,3-Dichlorobenzene		0.212	U	0.212	0.371
1,4-Dichlorobenzene		0.219	U	0.219	0.371
3,3'-Dichlorobenzidine		0.228	U	0.228	0.747
2,4-Dichlorophenol		0.195	U	0.195	0.371
Diethyl phthalate		0.236	U	0.236	0.371
2,4-Dimethylphenol		0.374	U	0.374	0.747
Dimethyl phthalate		0.231	U	0.231	0.371
Di-n-butyl phthalate		0.235	U	0.235	0.371
4,6-Dinitro-o-cresol		0.255	U	0.255	0.371
2,4-Dinitrophenol		0.280	U	0.280	0.371
2,4-Dinitrotoluene		0.232	U	0.232	0.371
2,6-Dinitrotoluene		0.249	U	0.249	0.371
Di-n-octyl phthalate		0.199	U	0.199	0.371
1,2-Diphenylhydrazine (as Azobenzene)		0.261	U	0.261	0.371
Fluoranthene		0.0379	U	0.0379	0.0747
Fluorene		0.0323	U	0.0323	0.0747
Hexachlorobenzene		0.279	U	0.279	0.371
Hexachlorobutadiene		0.186	U	0.186	0.371

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 449

Lab Sample ID: 490-117346-5 Date Sampled: 11/28/2016 1530
Client Matrix: Solid % Moisture: 11.1 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392458	Lab File ID:	120616-30.D
Dilution:	1.0			Initial Weight/Volume:	30.27 g
Analysis Date:	12/14/2016 2222			Final Weight/Volume:	1.00 mL
Prep Date:	12/07/2016 1213			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.167	U	0.167	0.371
Hexachloroethane		0.202	U	0.202	0.371
Ideno(1,2,3-cd)pyrene		0.0323	U	0.0323	0.0747
Isophorone		0.210	U	0.210	0.371
1-Methylnaphthalene		0.0312	U	0.0312	0.0747
2-Methylnaphthalene		0.0290	U	0.0290	0.0747
Naphthalene		0.0323	U	0.0323	0.0747
2-Nitroaniline		0.231	U	0.231	0.371
3-Nitroaniline		0.256	U	0.256	0.747
4-Nitroaniline		0.265	U	0.265	0.747
Nitrobenzene		0.224	U	0.224	0.371
2-Nitrophenol		0.271	U	0.271	0.371
4-Nitrophenol		0.426	U	0.426	0.747
N-Nitrosodimethylamine		0.0223	U	0.0223	0.371
N-Nitrosodi-n-propylamine		0.216	U	0.216	0.371
N-Nitrosodiphenylamine		0.0591	U	0.0591	0.371
Pentachlorophenol		0.297	U	0.297	0.747
Phenanthrene		0.0379	U	0.0379	0.0747
Phenol		0.226	U	0.226	0.371
Pyrene		0.0379	U	0.0379	0.0747
Pyridine		0.222	U	0.222	0.747
1,2,4-Trichlorobenzene		0.202	U	0.202	0.371
2,4,5-Trichlorophenol		0.243	U	0.243	0.371
2,4,6-Trichlorophenol		0.214	U	0.214	0.371

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	62		29 - 120
2-Fluorophenol (Surr)	47		10 - 120
Nitrobenzene-d5 (Surr)	53		27 - 120
Phenol-d5 (Surr)	53		10 - 120
Terphenyl-d14 (Surr)	76		13 - 120
2,4,6-Tribromophenol (Surr)	77		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 448

Lab Sample ID: 490-117346-6 Date Sampled: 11/28/2016 1500
Client Matrix: Solid % Moisture: 10.9 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392458	Lab File ID:	120616-31.D
Dilution:	1.0			Initial Weight/Volume:	30.38 g
Analysis Date:	12/14/2016 2240			Final Weight/Volume:	1.00 mL
Prep Date:	12/07/2016 1216			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0355	U	0.0355	0.0742
Acenaphthylene		0.0321	U	0.0321	0.0742
Aniline		0.280	U	0.280	0.742
Anthracene		0.0321	U	0.0321	0.0742
Benzidine		0.226	U	0.226	0.369
Benzo(a)anthracene		0.0332	U	0.0332	0.0742
Benzo(a)pyrene		0.0299	U	0.0299	0.0742
Benzo(b)fluoranthene		0.0310	U	0.0310	0.0742
Benzo(g,h,i)perylene		0.0366	U	0.0366	0.0742
Benzoic acid		0.0665	U	0.0665	0.369
Benzo(k)fluoranthene		0.0299	U	0.0299	0.0742
Benzyl alcohol		0.215	U	0.215	0.369
Bis(2-chloroethoxy)methane		0.222	U	0.222	0.369
Bis(2-chloroethyl)ether		0.236	U	0.236	0.369
bis (2-chloroisopropyl) ether		0.219	U	0.219	0.369
Bis(2-ethylhexyl)phthalate		0.229	U	0.229	0.369
4-Bromophenyl phenyl ether		0.227	U	0.227	0.369
Butyl benzyl phthalate		0.238	U	0.238	0.369
Carbazole		0.229	U	0.229	0.369
4-Chloroaniline		0.252	U	0.252	0.369
4-Chloro-3-methylphenol		0.186	U	0.186	0.369
2-Chloronaphthalene		0.232	U	0.232	0.369
2-Chlorophenol		0.212	U	0.212	0.369
4-Chlorophenyl phenyl ether		0.223	U	0.223	0.369
Chrysene		0.0410	U	0.0410	0.0742
Dibenzo(a,h)anthracene		0.0355	U	0.0355	0.0742
Dibenzofuran		0.233	U	0.233	0.369
1,2-Dichlorobenzene		0.211	U	0.211	0.369
1,3-Dichlorobenzene		0.211	U	0.211	0.369
1,4-Dichlorobenzene		0.217	U	0.217	0.369
3,3'-Dichlorobenzidine		0.226	U	0.226	0.742
2,4-Dichlorophenol		0.315	J	0.194	0.369
Diethyl phthalate		0.235	U	0.235	0.369
2,4-Dimethylphenol		0.371	U	0.371	0.742
Dimethyl phthalate		0.229	U	0.229	0.369
Di-n-butyl phthalate		0.234	U	0.234	0.369
4,6-Dinitro-o-cresol		0.254	U	0.254	0.369
2,4-Dinitrophenol		0.278	U	0.278	0.369
2,4-Dinitrotoluene		0.230	U	0.230	0.369
2,6-Dinitrotoluene		0.247	U	0.247	0.369
Di-n-octyl phthalate		0.197	U	0.197	0.369
1,2-Diphenylhydrazine (as Azobenzene)		0.259	U	0.259	0.369
Fluoranthene		0.0377	U	0.0377	0.0742
Fluorene		0.0321	U	0.0321	0.0742
Hexachlorobenzene		0.277	U	0.277	0.369
Hexachlorobutadiene		0.185	U	0.185	0.369

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 448

Lab Sample ID: 490-117346-6 Date Sampled: 11/28/2016 1500
Client Matrix: Solid % Moisture: 10.9 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392458	Lab File ID:	120616-31.D
Dilution:	1.0			Initial Weight/Volume:	30.38 g
Analysis Date:	12/14/2016 2240			Final Weight/Volume:	1.00 mL
Prep Date:	12/07/2016 1216			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.166	U	0.166	0.369
Hexachloroethane		0.201	U	0.201	0.369
Ideno(1,2,3-cd)pyrene		0.0321	U	0.0321	0.0742
Isophorone		1.21		0.208	0.369
1-Methylnaphthalene		2.44		0.0310	0.0742
2-Methylnaphthalene		3.49		0.0288	0.0742
Naphthalene		0.973		0.0321	0.0742
2-Nitroaniline		0.229	U	0.229	0.369
3-Nitroaniline		0.255	U	0.255	0.742
4-Nitroaniline		0.264	U	0.264	0.742
Nitrobenzene		0.223	U	0.223	0.369
2-Nitrophenol		0.269	U	0.269	0.369
4-Nitrophenol		0.423	U	0.423	0.742
N-Nitrosodimethylamine		0.0222	U	0.0222	0.369
N-Nitrosodi-n-propylamine		0.215	U	0.215	0.369
N-Nitrosodiphenylamine		0.0587	U	0.0587	0.369
Pentachlorophenol		0.295	U	0.295	0.742
Phenanthrene		0.544		0.0377	0.0742
Phenol		0.225	U	0.225	0.369
Pyrene		0.0377	U	0.0377	0.0742
Pyridine		0.221	U	0.221	0.742
1,2,4-Trichlorobenzene		0.201	U	0.201	0.369
2,4,5-Trichlorophenol		0.242	U	0.242	0.369
2,4,6-Trichlorophenol		0.213	U	0.213	0.369

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	74		29 - 120
2-Fluorophenol (Surr)	49		10 - 120
Nitrobenzene-d5 (Surr)	132	*	27 - 120
Phenol-d5 (Surr)	65		10 - 120
Terphenyl-d14 (Surr)	73		13 - 120
2,4,6-Tribromophenol (Surr)	88		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 452

Lab Sample ID: 490-117346-7 Date Sampled: 11/28/2016 1600
Client Matrix: Solid % Moisture: 10.5 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-05.D
Dilution:	1.0			Initial Weight/Volume:	30.03 g
Analysis Date:	12/14/2016 1454			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0357	U	0.0357	0.0748
Acenaphthylene		0.0324	U	0.0324	0.0748
Aniline		0.282	U	0.282	0.748
Anthracene		0.0324	U	0.0324	0.0748
Benzidine		0.228	U	0.228	0.372
Benzo(a)anthracene		0.0335	U	0.0335	0.0748
Benzo(a)pyrene		0.0301	U	0.0301	0.0748
Benzo(b)fluoranthene		0.0313	U	0.0313	0.0748
Benzo(g,h,i)perylene		0.0368	U	0.0368	0.0748
Benzoic acid		0.0670	U	0.0670	0.372
Benzo(k)fluoranthene		0.0301	U	0.0301	0.0748
Benzyl alcohol		0.217	U	0.217	0.372
Bis(2-chloroethoxy)methane		0.223	U	0.223	0.372
Bis(2-chloroethyl)ether		0.238	U	0.238	0.372
bis (2-chloroisopropyl) ether		0.221	U	0.221	0.372
Bis(2-ethylhexyl)phthalate		0.231	U	0.231	0.372
4-Bromophenyl phenyl ether		0.229	U	0.229	0.372
Butyl benzyl phthalate		0.240	U	0.240	0.372
Carbazole		0.231	U	0.231	0.372
4-Chloroaniline		0.253	U	0.253	0.372
4-Chloro-3-methylphenol		0.188	U	0.188	0.372
2-Chloronaphthalene		0.233	U	0.233	0.372
2-Chlorophenol		0.213	U	0.213	0.372
4-Chlorophenyl phenyl ether		0.224	U	0.224	0.372
Chrysene		0.0413	U	0.0413	0.0748
Dibenzo(a,h)anthracene		0.0357	U	0.0357	0.0748
Dibenzofuran		0.234	U	0.234	0.372
1,2-Dichlorobenzene		0.212	U	0.212	0.372
1,3-Dichlorobenzene		0.212	U	0.212	0.372
1,4-Dichlorobenzene		0.219	U	0.219	0.372
3,3'-Dichlorobenzidine		0.228	U	0.228	0.748
2,4-Dichlorophenol		0.195	U	0.195	0.372
Diethyl phthalate		0.237	U	0.237	0.372
2,4-Dimethylphenol		0.374	U	0.374	0.748
Dimethyl phthalate		0.231	U	0.231	0.372
Di-n-butyl phthalate		0.236	U	0.236	0.372
4,6-Dinitro-o-cresol		0.256	U *	0.256	0.372
2,4-Dinitrophenol		0.280	U	0.280	0.372
2,4-Dinitrotoluene		0.232	U	0.232	0.372
2,6-Dinitrotoluene		0.249	U	0.249	0.372
Di-n-octyl phthalate		0.199	U	0.199	0.372
1,2-Diphenylhydrazine (as Azobenzene)		0.261	U	0.261	0.372
Fluoranthene		0.0380	U	0.0380	0.0748
Fluorene		0.0324	U	0.0324	0.0748
Hexachlorobenzene		0.279	U	0.279	0.372
Hexachlorobutadiene		0.186	U	0.186	0.372

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 452

Lab Sample ID: 490-117346-7 Date Sampled: 11/28/2016 1600
Client Matrix: Solid % Moisture: 10.5 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-05.D
Dilution:	1.0			Initial Weight/Volume:	30.03 g
Analysis Date:	12/14/2016 1454			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.167	U *	0.167	0.372
Hexachloroethane		0.202	U	0.202	0.372
Ideno(1,2,3-cd)pyrene		0.0324	U	0.0324	0.0748
Isophorone		0.210	U	0.210	0.372
1-Methylnaphthalene		0.0313	U	0.0313	0.0748
2-Methylnaphthalene		0.0290	U	0.0290	0.0748
Naphthalene		0.0324	U	0.0324	0.0748
2-Nitroaniline		0.231	U	0.231	0.372
3-Nitroaniline		0.257	U	0.257	0.748
4-Nitroaniline		0.266	U	0.266	0.748
Nitrobenzene		0.224	U	0.224	0.372
2-Nitrophenol		0.271	U	0.271	0.372
4-Nitrophenol		0.426	U *	0.426	0.748
N-Nitrosodimethylamine		0.0223	U	0.0223	0.372
N-Nitrosodi-n-propylamine		0.217	U	0.217	0.372
N-Nitrosodiphenylamine		0.0592	U	0.0592	0.372
Pentachlorophenol		0.297	U	0.297	0.748
Phenanthrene		0.0380	U	0.0380	0.0748
Phenol		0.227	U	0.227	0.372
Pyrene		0.0380	U	0.0380	0.0748
Pyridine		0.222	U	0.222	0.748
1,2,4-Trichlorobenzene		0.202	U	0.202	0.372
2,4,5-Trichlorophenol		0.243	U	0.243	0.372
2,4,6-Trichlorophenol		0.214	U	0.214	0.372

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	69		29 - 120
2-Fluorophenol (Surr)	61		10 - 120
Nitrobenzene-d5 (Surr)	63		27 - 120
Phenol-d5 (Surr)	69		10 - 120
Terphenyl-d14 (Surr)	85		13 - 120
2,4,6-Tribromophenol (Surr)	83		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 446

Lab Sample ID: 490-117346-8 Date Sampled: 11/28/2016 1430
Client Matrix: Solid % Moisture: 10.2 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-06.D
Dilution:	1.0			Initial Weight/Volume:	30.11 g
Analysis Date:	12/14/2016 1512			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0355	U	0.0355	0.0743
Acenaphthylene		0.0322	U	0.0322	0.0743
Aniline		0.281	U	0.281	0.743
Anthracene		0.0322	U	0.0322	0.0743
Benzidine		0.226	U	0.226	0.369
Benzo(a)anthracene		0.0333	U	0.0333	0.0743
Benzo(a)pyrene		0.0299	U	0.0299	0.0743
Benzo(b)fluoranthene		0.0311	U	0.0311	0.0743
Benzo(g,h,i)perylene		0.0366	U	0.0366	0.0743
Benzoic acid		0.0665	U	0.0665	0.369
Benzo(k)fluoranthene		0.0299	U	0.0299	0.0743
Benzyl alcohol		0.215	U	0.215	0.369
Bis(2-chloroethoxy)methane		0.222	U	0.222	0.369
Bis(2-chloroethyl)ether		0.236	U	0.236	0.369
bis (2-chloroisopropyl) ether		0.220	U	0.220	0.369
Bis(2-ethylhexyl)phthalate		0.230	U	0.230	0.369
4-Bromophenyl phenyl ether		0.227	U	0.227	0.369
Butyl benzyl phthalate		0.238	U	0.238	0.369
Carbazole		0.230	U	0.230	0.369
4-Chloroaniline		0.252	U	0.252	0.369
4-Chloro-3-methylphenol		0.186	U	0.186	0.369
2-Chloronaphthalene		0.232	U	0.232	0.369
2-Chlorophenol		0.212	U	0.212	0.369
4-Chlorophenyl phenyl ether		0.223	U	0.223	0.369
Chrysene		0.0410	U	0.0410	0.0743
Dibenzo(a,h)anthracene		0.0355	U	0.0355	0.0743
Dibenzofuran		0.233	U	0.233	0.369
1,2-Dichlorobenzene		0.211	U	0.211	0.369
1,3-Dichlorobenzene		0.211	U	0.211	0.369
1,4-Dichlorobenzene		0.217	U	0.217	0.369
3,3'-Dichlorobenzidine		0.226	U	0.226	0.743
2,4-Dichlorophenol		0.194	U	0.194	0.369
Diethyl phthalate		0.235	U	0.235	0.369
2,4-Dimethylphenol		0.372	U	0.372	0.743
Dimethyl phthalate		0.230	U	0.230	0.369
Di-n-butyl phthalate		0.234	U	0.234	0.369
4,6-Dinitro-o-cresol		0.254	U *	0.254	0.369
2,4-Dinitrophenol		0.278	U	0.278	0.369
2,4-Dinitrotoluene		0.231	U	0.231	0.369
2,6-Dinitrotoluene		0.247	U	0.247	0.369
Di-n-octyl phthalate		0.197	U	0.197	0.369
1,2-Diphenylhydrazine (as Azobenzene)		0.260	U	0.260	0.369
Fluoranthene		0.0377	U	0.0377	0.0743
Fluorene		0.0863		0.0322	0.0743
Hexachlorobenzene		0.277	U	0.277	0.369
Hexachlorobutadiene		0.185	U	0.185	0.369

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 446

Lab Sample ID: 490-117346-8 Date Sampled: 11/28/2016 1430
Client Matrix: Solid % Moisture: 10.2 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-06.D
Dilution:	1.0			Initial Weight/Volume:	30.11 g
Analysis Date:	12/14/2016 1512			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.166	U *	0.166	0.369
Hexachloroethane		0.201	U	0.201	0.369
Ideno(1,2,3-cd)pyrene		0.0322	U	0.0322	0.0743
Isophorone		0.208	U	0.208	0.369
1-Methylnaphthalene		0.548		0.0311	0.0743
2-Methylnaphthalene		0.0288	U	0.0288	0.0743
Naphthalene		0.0322	U	0.0322	0.0743
2-Nitroaniline		0.230	U	0.230	0.369
3-Nitroaniline		0.255	U	0.255	0.743
4-Nitroaniline		0.264	U	0.264	0.743
Nitrobenzene		0.223	U	0.223	0.369
2-Nitrophenol		0.269	U	0.269	0.369
4-Nitrophenol		0.424	U *	0.424	0.743
N-Nitrosodimethylamine		0.0222	U	0.0222	0.369
N-Nitrosodi-n-propylamine		0.215	U	0.215	0.369
N-Nitrosodiphenylamine		0.0588	U	0.0588	0.369
Pentachlorophenol		0.295	U	0.295	0.743
Phenanthrene		0.175		0.0377	0.0743
Phenol		0.225	U	0.225	0.369
Pyrene		0.0377	U	0.0377	0.0743
Pyridine		0.221	U	0.221	0.743
1,2,4-Trichlorobenzene		0.201	U	0.201	0.369
2,4,5-Trichlorophenol		0.242	U	0.242	0.369
2,4,6-Trichlorophenol		0.213	U	0.213	0.369

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	70		29 - 120
2-Fluorophenol (Surr)	48		10 - 120
Nitrobenzene-d5 (Surr)	68		27 - 120
Phenol-d5 (Surr)	54		10 - 120
Terphenyl-d14 (Surr)	76		13 - 120
2,4,6-Tribromophenol (Surr)	69		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 444

Lab Sample ID: 490-117346-9 Date Sampled: 11/28/2016 1400
Client Matrix: Solid % Moisture: 12.0 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-07.D
Dilution:	1.0			Initial Weight/Volume:	30.54 g
Analysis Date:	12/14/2016 1530			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0357	U	0.0357	0.0748
Acenaphthylene		0.0324	U	0.0324	0.0748
Aniline		0.282	U	0.282	0.748
Anthracene		0.0540	J	0.0324	0.0748
Benzidine		0.228	U	0.228	0.372
Benzo(a)anthracene		0.0335	U	0.0335	0.0748
Benzo(a)pyrene		0.0301	U	0.0301	0.0748
Benzo(b)fluoranthene		0.0312	U	0.0312	0.0748
Benzo(g,h,i)perylene		0.0368	U	0.0368	0.0748
Benzoic acid		0.0669	U	0.0669	0.372
Benzo(k)fluoranthene		0.0301	U	0.0301	0.0748
Benzyl alcohol		0.216	U	0.216	0.372
Bis(2-chloroethoxy)methane		0.223	U	0.223	0.372
Bis(2-chloroethyl)ether		0.238	U	0.238	0.372
bis (2-chloroisopropyl) ether		0.221	U	0.221	0.372
Bis(2-ethylhexyl)phthalate		0.231	U	0.231	0.372
4-Bromophenyl phenyl ether		0.229	U	0.229	0.372
Butyl benzyl phthalate		0.240	U	0.240	0.372
Carbazole		0.231	U	0.231	0.372
4-Chloroaniline		0.253	U	0.253	0.372
4-Chloro-3-methylphenol		0.187	U	0.187	0.372
2-Chloronaphthalene		0.233	U	0.233	0.372
2-Chlorophenol		0.213	U	0.213	0.372
4-Chlorophenyl phenyl ether		0.224	U	0.224	0.372
Chrysene		0.0413	U	0.0413	0.0748
Dibenzo(a,h)anthracene		0.0357	U	0.0357	0.0748
Dibenzofuran		0.234	U	0.234	0.372
1,2-Dichlorobenzene		0.212	U	0.212	0.372
1,3-Dichlorobenzene		0.212	U	0.212	0.372
1,4-Dichlorobenzene		0.219	U	0.219	0.372
3,3'-Dichlorobenzidine		0.228	U	0.228	0.748
2,4-Dichlorophenol		0.195	U	0.195	0.372
Diethyl phthalate		0.237	U	0.237	0.372
2,4-Dimethylphenol		0.374	U	0.374	0.748
Dimethyl phthalate		0.231	U	0.231	0.372
Di-n-butyl phthalate		0.235	U	0.235	0.372
4,6-Dinitro-o-cresol		0.256	U *	0.256	0.372
2,4-Dinitrophenol		0.280	U	0.280	0.372
2,4-Dinitrotoluene		0.232	U	0.232	0.372
2,6-Dinitrotoluene		0.249	U	0.249	0.372
Di-n-octyl phthalate		0.199	U	0.199	0.372
1,2-Diphenylhydrazine (as Azobenzene)		0.261	U	0.261	0.372
Fluoranthene		0.0379	U	0.0379	0.0748
Fluorene		0.0324	U	0.0324	0.0748
Hexachlorobenzene		0.279	U	0.279	0.372
Hexachlorobutadiene		0.186	U	0.186	0.372

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 444

Lab Sample ID: 490-117346-9 Date Sampled: 11/28/2016 1400
Client Matrix: Solid % Moisture: 12.0 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-07.D
Dilution:	1.0			Initial Weight/Volume:	30.54 g
Analysis Date:	12/14/2016 1530			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.167	U *	0.167	0.372
Hexachloroethane		0.202	U	0.202	0.372
Ideno(1,2,3-cd)pyrene		0.0324	U	0.0324	0.0748
Isophorone		0.210	U	0.210	0.372
1-Methylnaphthalene		0.546		0.0312	0.0748
2-Methylnaphthalene		0.0290	U	0.0290	0.0748
Naphthalene		0.0324	U	0.0324	0.0748
2-Nitroaniline		0.231	U	0.231	0.372
3-Nitroaniline		0.257	U	0.257	0.748
4-Nitroaniline		0.266	U	0.266	0.748
Nitrobenzene		0.224	U	0.224	0.372
2-Nitrophenol		0.271	U	0.271	0.372
4-Nitrophenol		0.426	U *	0.426	0.748
N-Nitrosodimethylamine		0.0223	U	0.0223	0.372
N-Nitrosodi-n-propylamine		0.216	U	0.216	0.372
N-Nitrosodiphenylamine		0.0591	U	0.0591	0.372
Pentachlorophenol		0.297	U	0.297	0.748
Phenanthrene		0.540		0.0379	0.0748
Phenol		0.227	U	0.227	0.372
Pyrene		0.0379	U	0.0379	0.0748
Pyridine		0.222	U	0.222	0.748
1,2,4-Trichlorobenzene		0.202	U	0.202	0.372
2,4,5-Trichlorophenol		0.243	U	0.243	0.372
2,4,6-Trichlorophenol		0.214	U	0.214	0.372

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	71		29 - 120
2-Fluorophenol (Surr)	52		10 - 120
Nitrobenzene-d5 (Surr)	62		27 - 120
Phenol-d5 (Surr)	59		10 - 120
Terphenyl-d14 (Surr)	79		13 - 120
2,4,6-Tribromophenol (Surr)	78		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: TP-313-6-7

Lab Sample ID: 490-117346-10 Date Sampled: 11/28/2016 1145
Client Matrix: Solid % Moisture: 48.8 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-08.D
Dilution:	5.0			Initial Weight/Volume:	30.27 g
Analysis Date:	12/14/2016 1548			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.310	U	0.310	0.648
Acenaphthylene		0.281	U	0.281	0.648
Aniline		2.45	U	2.45	6.48
Anthracene		0.281	U	0.281	0.648
Benzidine		1.97	U	1.97	3.22
Benzo(a)anthracene		0.290	U	0.290	0.648
Benzo(a)pyrene		0.261	U	0.261	0.648
Benzo(b)fluoranthene		0.271	U	0.271	0.648
Benzo(g,h,i)perylene		0.330	J	0.319	0.648
Benzoic acid		0.581	U	0.581	3.22
Benzo(k)fluoranthene		0.261	U	0.261	0.648
Benzyl alcohol		1.88	U	1.88	3.22
Bis(2-chloroethoxy)methane		1.94	U	1.94	3.22
Bis(2-chloroethyl)ether		2.06	U	2.06	3.22
bis (2-chloroisopropyl) ether		1.92	U	1.92	3.22
Bis(2-ethylhexyl)phthalate		2.00	U	2.00	3.22
4-Bromophenyl phenyl ether		1.98	U	1.98	3.22
Butyl benzyl phthalate		2.08	U	2.08	3.22
Carbazole		2.00	U	2.00	3.22
4-Chloroaniline		2.20	U	2.20	3.22
4-Chloro-3-methylphenol		1.63	U	1.63	3.22
2-Chloronaphthalene		2.02	U	2.02	3.22
2-Chlorophenol		1.85	U	1.85	3.22
4-Chlorophenyl phenyl ether		1.94	U	1.94	3.22
Chrysene		0.358	U	0.358	0.648
Dibenzo(a,h)anthracene		0.310	U	0.310	0.648
Dibenzofuran		2.03	U	2.03	3.22
1,2-Dichlorobenzene		1.84	U	1.84	3.22
1,3-Dichlorobenzene		1.84	U	1.84	3.22
1,4-Dichlorobenzene		1.90	U	1.90	3.22
3,3'-Dichlorobenzidine		1.97	U	1.97	6.48
2,4-Dichlorophenol		1.69	U	1.69	3.22
Diethyl phthalate		2.05	U	2.05	3.22
2,4-Dimethylphenol		3.24	U	3.24	6.48
Dimethyl phthalate		2.00	U	2.00	3.22
Di-n-butyl phthalate		2.04	U	2.04	3.22
4,6-Dinitro-o-cresol		2.22	U *	2.22	3.22
2,4-Dinitrophenol		2.43	U	2.43	3.22
2,4-Dinitrotoluene		2.01	U	2.01	3.22
2,6-Dinitrotoluene		2.16	U	2.16	3.22
Di-n-octyl phthalate		1.72	U	1.72	3.22
1,2-Diphenylhydrazine (as Azobenzene)		2.26	U	2.26	3.22
Fluoranthene		0.329	U	0.329	0.648
Fluorene		0.281	U	0.281	0.648
Hexachlorobenzene		2.42	U	2.42	3.22
Hexachlorobutadiene		1.62	U	1.62	3.22

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: TP-313-6-7

Lab Sample ID: 490-117346-10 Date Sampled: 11/28/2016 1145
Client Matrix: Solid % Moisture: 48.8 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-08.D
Dilution:	5.0			Initial Weight/Volume:	30.27 g
Analysis Date:	12/14/2016 1548			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		1.45	U *	1.45	3.22
Hexachloroethane		1.75	U	1.75	3.22
Ideno(1,2,3-cd)pyrene		0.281	U	0.281	0.648
Isophorone		1.82	U	1.82	3.22
1-Methylnaphthalene		0.271	U	0.271	0.648
2-Methylnaphthalene		0.252	U	0.252	0.648
Naphthalene		0.281	U	0.281	0.648
2-Nitroaniline		2.00	U	2.00	3.22
3-Nitroaniline		2.23	U	2.23	6.48
4-Nitroaniline		2.30	U	2.30	6.48
Nitrobenzene		1.94	U	1.94	3.22
2-Nitrophenol		2.35	U	2.35	3.22
4-Nitrophenol		3.70	U *	3.70	6.48
N-Nitrosodimethylamine		0.194	U	0.194	3.22
N-Nitrosodi-n-propylamine		1.88	U	1.88	3.22
N-Nitrosodiphenylamine		0.513	U	0.513	3.22
Pentachlorophenol		2.57	U	2.57	6.48
Phenanthrene		0.329	U	0.329	0.648
Phenol		1.96	U	1.96	3.22
Pyrene		0.329	U	0.329	0.648
Pyridine		1.93	U	1.93	6.48
1,2,4-Trichlorobenzene		1.75	U	1.75	3.22
2,4,5-Trichlorophenol		2.11	U	2.11	3.22
2,4,6-Trichlorophenol		1.86	U	1.86	3.22

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	89		29 - 120
2-Fluorophenol (Surr)	77		10 - 120
Nitrobenzene-d5 (Surr)	78		27 - 120
Phenol-d5 (Surr)	83		10 - 120
Terphenyl-d14 (Surr)	92		13 - 120
2,4,6-Tribromophenol (Surr)	112		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 447

Lab Sample ID: 490-117346-1 Date Sampled: 11/28/2016 1500
Client Matrix: Solid % Moisture: 17.1 Date Received: 12/03/2016 0925

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-393176	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392479	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.496 g
Analysis Date:	12/08/2016 1338			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1327				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9660		12.2	24.3
Antimony		1.22	U	1.22	12.2
Arsenic		6.93		1.46	2.43
Barium		66.3		1.22	2.43
Beryllium		0.535	J	0.243	1.22
Cadmium		0.243	J	0.122	1.22
Calcium		316		122	243
Chromium		10.9		1.09	1.22
Cobalt		5.91		1.22	2.43
Copper		42.9		1.34	2.43
Iron		16000		24.3	48.6
Lead		13.9		0.608	1.22
Magnesium		1920		122	243
Manganese		212		1.22	3.65
Nickel		14.6		0.729	2.43
Potassium		330		122	243
Selenium		1.43	J	1.34	2.43
Silver		0.486	U	0.486	1.22
Sodium		158	U	158	243
Thallium		0.729	U	0.729	2.43
Vanadium		14.4		2.43	12.2
Zinc		42.7		6.08	12.2

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.603 g
Analysis Date:	12/15/2016 1012			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0360	U	0.0360	0.120

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 450

Lab Sample ID: 490-117346-2 Date Sampled: 11/28/2016 1530
Client Matrix: Solid % Moisture: 11.8 Date Received: 12/03/2016 0925

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-392352	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-392126	Lab File ID:	TALS_120616-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.499 g
Analysis Date:	12/07/2016 0048			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1335				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5850		11.4	22.7
Antimony		1.14	U	1.14	11.4
Arsenic		4.46		1.36	2.27
Barium		54.0		1.14	2.27
Beryllium		0.296	J	0.227	1.14
Cadmium		0.682	J	0.114	1.14
Calcium		1070		114	227
Chromium		7.32		1.02	1.14
Cobalt		4.05		1.14	2.27
Copper		35.4		1.25	2.27
Iron		12200		22.7	45.5
Lead		11.9		0.568	1.14
Magnesium		1570		114	227
Manganese		613		1.14	3.41
Nickel		11.4		0.682	2.27
Selenium		1.25	U	1.25	2.27
Silver		0.455	U	0.455	1.14
Thallium		0.682	U	0.682	2.27
Vanadium		11.0	J	2.27	11.4
Zinc		56.1		5.68	11.4

Analysis Method:	6010C	Analysis Batch:	490-392645	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392126	Lab File ID:	TALS_120716-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.499 g
Analysis Date:	12/07/2016 1851			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1335				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Potassium		486		114	227
Sodium		148	U	148	227

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.625 g
Analysis Date:	12/15/2016 1020			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0327	U	0.0327	0.109

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 445

Lab Sample ID: 490-117346-3 Date Sampled: 11/28/2016 1430
Client Matrix: Solid % Moisture: 10.1 Date Received: 12/03/2016 0925

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-392352	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-392126	Lab File ID:	TALS_120616-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.511 g
Analysis Date:	12/07/2016 0053			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1335				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7970		10.9	21.8
Antimony		1.09	U	1.09	10.9
Arsenic		4.70		1.31	2.18
Barium		34.5		1.09	2.18
Beryllium		0.414	J	0.218	1.09
Cadmium		0.762	J	0.109	1.09
Calcium		294		109	218
Chromium		8.12		0.980	1.09
Cobalt		7.71		1.09	2.18
Copper		9.45		1.20	2.18
Iron		14600		21.8	43.6
Lead		10.9		0.544	1.09
Magnesium		1900		109	218
Manganese		115		1.09	3.27
Nickel		16.2		0.653	2.18
Selenium		1.20	U	1.20	2.18
Silver		0.436	U	0.436	1.09
Thallium		0.653	U	0.653	2.18
Vanadium		11.8		2.18	10.9
Zinc		57.3		5.44	10.9

Analysis Method:	6010C	Analysis Batch:	490-392645	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392126	Lab File ID:	TALS_120716-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.511 g
Analysis Date:	12/07/2016 1856			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1335				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Potassium		418		109	218
Sodium		142	U	142	218

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.596 g
Analysis Date:	12/15/2016 1022			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0336	U	0.0336	0.112

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 443

Lab Sample ID: 490-117346-4 Date Sampled: 11/28/2016 1400
Client Matrix: Solid % Moisture: 11.3 Date Received: 12/03/2016 0925

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-392352	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-392126	Lab File ID:	TALS_120616-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.503 g
Analysis Date:	12/07/2016 0058			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1335				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5190		11.2	22.4
Antimony		1.12	U	1.12	11.2
Arsenic		6.97		1.35	2.24
Barium		27.1		1.12	2.24
Beryllium		0.291	J	0.224	1.12
Cadmium		0.785	J	0.112	1.12
Calcium		552		112	224
Chromium		6.23		1.01	1.12
Cobalt		4.86		1.12	2.24
Copper		18.5		1.23	2.24
Iron		13800		22.4	44.8
Lead		12.5		0.560	1.12
Magnesium		1570		112	224
Manganese		1010		1.12	3.36
Nickel		12.4		0.673	2.24
Selenium		1.23	U	1.23	2.24
Silver		0.448	U	0.448	1.12
Thallium		0.673	U	0.673	2.24
Vanadium		9.06	J	2.24	11.2
Zinc		67.4		5.60	11.2

Analysis Method:	6010C	Analysis Batch:	490-392645	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392126	Lab File ID:	TALS_120716-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.503 g
Analysis Date:	12/07/2016 1901			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1335				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Potassium		277		112	224
Sodium		146	U	146	224

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.615 g
Analysis Date:	12/15/2016 1025			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0330	U	0.0330	0.110

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 449

Lab Sample ID: 490-117346-5 Date Sampled: 11/28/2016 1530
Client Matrix: Solid % Moisture: 11.1 Date Received: 12/03/2016 0925

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-392352	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-392126	Lab File ID:	TALS_120616-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.502 g
Analysis Date:	12/07/2016 0103			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1335				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7380		11.2	22.4
Antimony		1.12	J	1.12	11.2
Arsenic		4.44		1.34	2.24
Barium		44.6		1.12	2.24
Beryllium		0.403	J	0.224	1.12
Cadmium		0.672	J	0.112	1.12
Calcium		670		112	224
Chromium		8.09		1.01	1.12
Cobalt		5.49		1.12	2.24
Copper		51.7		1.23	2.24
Iron		14700		22.4	44.8
Lead		16.5		0.560	1.12
Magnesium		2160		112	224
Manganese		283		1.12	3.36
Nickel		13.6		0.672	2.24
Selenium		1.23	U	1.23	2.24
Silver		0.448	U	0.448	1.12
Thallium		0.672	U	0.672	2.24
Vanadium		12.6		2.24	11.2
Zinc		59.9		5.60	11.2

Analysis Method:	6010C	Analysis Batch:	490-392645	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392126	Lab File ID:	TALS_120716-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.502 g
Analysis Date:	12/07/2016 1907			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1335				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Potassium		361		112	224
Sodium		146	U	146	224

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.625 g
Analysis Date:	12/15/2016 1027			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0324	U	0.0324	0.108

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 448

Lab Sample ID: 490-117346-6 Date Sampled: 11/28/2016 1500
Client Matrix: Solid % Moisture: 10.9 Date Received: 12/03/2016 0925

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-392352	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-392126	Lab File ID:	TALS_120616-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.504 g
Analysis Date:	12/07/2016 0109			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1335				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5060		11.1	22.3
Antimony		1.11	U	1.11	11.1
Arsenic		2.76		1.34	2.23
Barium		33.5		1.11	2.23
Beryllium		0.356	J	0.223	1.11
Cadmium		0.779	J	0.111	1.11
Calcium		541		111	223
Chromium		6.77		1.00	1.11
Cobalt		4.43		1.11	2.23
Copper		38.5		1.22	2.23
Iron		16600		22.3	44.5
Lead		11.2		0.557	1.11
Magnesium		1300		111	223
Manganese		2880		1.11	3.34
Nickel		11.5		0.668	2.23
Selenium		1.38	J B	1.22	2.23
Silver		0.445	U	0.445	1.11
Thallium		0.668	U	0.668	2.23
Vanadium		8.71	J	2.23	11.1
Zinc		50.1		5.57	11.1

Analysis Method:	6010C	Analysis Batch:	490-392645	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392126	Lab File ID:	TALS_120716-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.504 g
Analysis Date:	12/07/2016 1912			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1335				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Potassium		267		111	223
Sodium		145	U	145	223

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.616 g
Analysis Date:	12/15/2016 1034			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0328	U	0.0328	0.109

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 452

Lab Sample ID: 490-117346-7 Date Sampled: 11/28/2016 1600
Client Matrix: Solid % Moisture: 10.5 Date Received: 12/03/2016 0925

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-392352	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-392126	Lab File ID:	TALS_120616-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.502 g
Analysis Date:	12/07/2016 0114			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1335				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5140		11.1	22.3
Antimony		1.11	U	1.11	11.1
Arsenic		2.65		1.34	2.23
Barium		45.4		1.11	2.23
Beryllium		0.245	J	0.223	1.11
Cadmium		0.512	J	0.111	1.11
Calcium		546		111	223
Chromium		6.05		1.00	1.11
Cobalt		3.94		1.11	2.23
Copper		14.7		1.22	2.23
Iron		10500		22.3	44.5
Lead		10.4		0.557	1.11
Magnesium		1350		111	223
Manganese		196		1.11	3.34
Nickel		10.7		0.668	2.23
Selenium		1.22	U	1.22	2.23
Silver		0.445	U	0.445	1.11
Thallium		0.668	U	0.668	2.23
Vanadium		8.10	J	2.23	11.1
Zinc		55.1		5.57	11.1

Analysis Method:	6010C	Analysis Batch:	490-392645	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392126	Lab File ID:	TALS_120716-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.502 g
Analysis Date:	12/07/2016 1917			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1335				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Potassium		277		111	223
Sodium		145	U	145	223

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.617 g
Analysis Date:	12/15/2016 1037			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0326	U	0.0326	0.109

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 446

Lab Sample ID: 490-117346-8 Date Sampled: 11/28/2016 1430
Client Matrix: Solid % Moisture: 10.2 Date Received: 12/03/2016 0925

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-392352	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-392126	Lab File ID:	TALS_120616-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.509 g
Analysis Date:	12/07/2016 0119			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1335				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5840		10.9	21.9
Antimony		1.09	U	1.09	10.9
Arsenic		5.07		1.31	2.19
Barium		26.4		1.09	2.19
Beryllium		0.350	J	0.219	1.09
Cadmium		0.612	J	0.109	1.09
Calcium		485		109	219
Chromium		6.82		0.984	1.09
Cobalt		4.79		1.09	2.19
Copper		15.9		1.20	2.19
Iron		12300		21.9	43.7
Lead		13.2		0.547	1.09
Magnesium		1680		109	219
Manganese		923		1.09	3.28
Nickel		12.5		0.656	2.19
Selenium		1.20	U	1.20	2.19
Silver		0.437	U	0.437	1.09
Thallium		0.656	U	0.656	2.19
Vanadium		8.09	J	2.19	10.9
Zinc		44.5		5.47	10.9

Analysis Method:	6010C	Analysis Batch:	490-392645	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392126	Lab File ID:	TALS_120716-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.509 g
Analysis Date:	12/07/2016 1922			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1335				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Potassium		296		109	219
Sodium		142	U	142	219

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.624 g
Analysis Date:	12/15/2016 1039			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0321	U	0.0321	0.107

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: END 444

Lab Sample ID: 490-117346-9 Date Sampled: 11/28/2016 1400
Client Matrix: Solid % Moisture: 12.0 Date Received: 12/03/2016 0925

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-392352	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-392126	Lab File ID:	TALS_120616-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.520 g
Analysis Date:	12/07/2016 0124			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1335				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5190		10.9	21.8
Antimony		1.09	U	1.09	10.9
Arsenic		4.13		1.31	2.18
Barium		51.2		1.09	2.18
Beryllium		0.240	J	0.218	1.09
Cadmium		0.568	J	0.109	1.09
Calcium		827		109	218
Chromium		7.27		0.983	1.09
Cobalt		4.50		1.09	2.18
Copper		18.5		1.20	2.18
Iron		11000		21.8	43.7
Lead		14.9		0.546	1.09
Magnesium		1610		109	218
Manganese		723		1.09	3.28
Nickel		12.0		0.655	2.18
Selenium		1.20	U	1.20	2.18
Silver		0.437	U	0.437	1.09
Thallium		0.655	U	0.655	2.18
Vanadium		9.09	J	2.18	10.9
Zinc		64.1		5.46	10.9

Analysis Method:	6010C	Analysis Batch:	490-392645	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392126	Lab File ID:	TALS_120716-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.520 g
Analysis Date:	12/07/2016 1927			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1335				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Potassium		447		109	218
Sodium		142	U	142	218

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.611 g
Analysis Date:	12/15/2016 1042			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0335	U	0.0335	0.112

Client: Roux Associates, Inc. Job Number: 490-117346-1

Client Sample ID: TP-313-6-7

Lab Sample ID: 490-117346-10 Date Sampled: 11/28/2016 1145
Client Matrix: Solid % Moisture: 48.8 Date Received: 12/03/2016 0925

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-392352	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-392126	Lab File ID:	TALS_120616-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.525 g
Analysis Date:	12/07/2016 0129			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1335				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		12000		18.6	37.2
Antimony		7.21	J	1.86	18.6
Arsenic		23.8		2.23	3.72
Barium		107		1.86	3.72
Beryllium		0.893	J	0.372	1.86
Cadmium		1.34	J	0.186	1.86
Calcium		7840		186	372
Chromium		37.2		1.67	1.86
Cobalt		5.21		1.86	3.72
Copper		100		2.05	3.72
Iron		16700		37.2	74.4
Lead		271		0.930	1.86
Magnesium		8790		186	372
Manganese		73.9		1.86	5.58
Nickel		21.8		1.12	3.72
Selenium		2.75	J B	2.05	3.72
Silver		0.744	U	0.744	1.86
Thallium		1.12	U	1.12	3.72
Vanadium		45.8		3.72	18.6
Zinc		204		9.30	18.6

Analysis Method:	6010C	Analysis Batch:	490-392645	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392126	Lab File ID:	TALS_120716-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.525 g
Analysis Date:	12/07/2016 1933			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1335				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Potassium		1240		186	372
Sodium		242	U	242	372

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.597 g
Analysis Date:	12/15/2016 1044			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.528		0.0589	0.196

General Chemistry

Client Sample ID: **END 447**

Lab Sample ID: 490-117346-1 Date Sampled: 11/28/2016 1500
Client Matrix: Solid Date Received: 12/03/2016 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	82.9		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392389 Analysis Date: 12/07/2016 1036 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 450**

Lab Sample ID: 490-117346-2 Date Sampled: 11/28/2016 1530
Client Matrix: Solid Date Received: 12/03/2016 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	88.2		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392389 Analysis Date: 12/07/2016 1036 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 445**

Lab Sample ID: 490-117346-3 Date Sampled: 11/28/2016 1430
Client Matrix: Solid Date Received: 12/03/2016 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	89.9		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392389 Analysis Date: 12/07/2016 1036 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 443**

Lab Sample ID: 490-117346-4 Date Sampled: 11/28/2016 1400
Client Matrix: Solid Date Received: 12/03/2016 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	88.7		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392389 Analysis Date: 12/07/2016 1036 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 449**

Lab Sample ID: 490-117346-5 Date Sampled: 11/28/2016 1530
Client Matrix: Solid Date Received: 12/03/2016 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	88.9		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392389 Analysis Date: 12/07/2016 1036 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 448**

Lab Sample ID: 490-117346-6 Date Sampled: 11/28/2016 1500
Client Matrix: Solid Date Received: 12/03/2016 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	89.1		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392389 Analysis Date: 12/07/2016 1036 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 452**

Lab Sample ID: 490-117346-7 Date Sampled: 11/28/2016 1600
Client Matrix: Solid Date Received: 12/03/2016 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	89.5		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392389 Analysis Date: 12/07/2016 1036 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 446**

Lab Sample ID: 490-117346-8 Date Sampled: 11/28/2016 1430
Client Matrix: Solid Date Received: 12/03/2016 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	89.8		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392389 Analysis Date: 12/07/2016 1036 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 444**

Lab Sample ID: 490-117346-9 Date Sampled: 11/28/2016 1400
Client Matrix: Solid Date Received: 12/03/2016 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	88.0		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392389 Analysis Date: 12/07/2016 1036 DryWt Corrected: N

General Chemistry

Client Sample ID: **TP-313-6-7**

Lab Sample ID: 490-117346-10 Date Sampled: 11/28/2016 1145
Client Matrix: Solid Date Received: 12/03/2016 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	51.2		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392389 Analysis Date: 12/07/2016 1036 DryWt Corrected: N

DATA REPORTING QUALIFIERS

Client: Roux Associates, Inc. Job Number: 490-117346-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Analyzed for but not detected.
	E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.
	*	Duplicate RPD exceeds control limits
	J	Indicates an estimated value.
	*	ISTD response or retention time outside acceptable limits
	*	LCS or LCSD is outside acceptance limits.
	*	MS or MSD is outside acceptance limits.
	*	Surrogate is outside acceptance limits.
	N	This flag indicates the presumptive evidence of a compound.
GC/MS Semi VOA		
	U	Analyzed for but not detected.
	J	Indicates an estimated value.
	*	LCS or LCSD is outside acceptance limits.
	*	MS or MSD is outside acceptance limits.
	*	Surrogate is outside acceptance limits.
Metals		
	B	Compound was found in the blank and sample.
	U	Indicates analyzed for but not detected.
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
	J	Sample result is greater than the MDL but below the CRDL
	N	Spiked sample recovery is not within control limits.

QUALITY CONTROL RESULTS

Client: Roux Associates, Inc. Job Number: 490-117346-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 490-391700					
490-117346-1MS	Matrix Spike	T	Solid	5035A	
490-117346-1MSD	Matrix Spike Duplicate	T	Solid	5035A	
490-117346-A-29-A MS	Matrix Spike	T	Solid	5035A	
490-117346-A-29-B MSD	Matrix Spike Duplicate	T	Solid	5035A	
Prep Batch: 490-391833					
490-117346-1	END 447	T	Solid	5035A	
490-117346-2	END 450	T	Solid	5035A	
490-117346-3	END 445	T	Solid	5035A	
490-117346-4	END 443	T	Solid	5035A	
490-117346-6	END 448	T	Solid	5035A	
490-117346-8	END 446	T	Solid	5035A	
490-117346-9	END 444	T	Solid	5035A	
490-117346-10	TP-313-6-7	T	Solid	5035A	
490-117346-10MS	Matrix Spike	T	Solid	5035A	
490-117346-10MSD	Matrix Spike Duplicate	T	Solid	5035A	
Prep Batch: 490-391835					
490-117346-1	END 447	T	Solid	5035A	
490-117346-2	END 450	T	Solid	5035A	
490-117346-3	END 445	T	Solid	5035A	
490-117346-4	END 443	T	Solid	5035A	
490-117346-5	END 449	T	Solid	5035A	
490-117346-6	END 448	T	Solid	5035A	
490-117346-7	END 452	T	Solid	5035A	
490-117346-8	END 446	T	Solid	5035A	
490-117346-9	END 444	T	Solid	5035A	
490-117346-10	TP-313-6-7	T	Solid	5035A	
490-117346-11	Trip Blank	T	Solid	5035A	
Analysis Batch:490-391971					
LCS 490-391971/3	Lab Control Sample	T	Solid	8260C	
LCSD 490-391971/4	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-391971/7	Method Blank	T	Solid	8260C	
490-117346-1MS	Matrix Spike	T	Solid	8260C	490-391700
490-117346-1MSD	Matrix Spike Duplicate	T	Solid	8260C	490-391700
490-117346-1	END 447	T	Solid	8260C	490-391835
490-117346-3	END 445	T	Solid	8260C	490-391835
490-117346-6	END 448	T	Solid	8260C	490-391835
490-117346-7	END 452	T	Solid	8260C	490-391835
490-117346-8	END 446	T	Solid	8260C	490-391835
490-117346-9	END 444	T	Solid	8260C	490-391835
490-117346-10	TP-313-6-7	T	Solid	8260C	490-391835
490-117346-11	Trip Blank	T	Solid	8260C	490-391835

Client: Roux Associates, Inc. Job Number: 490-117346-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:490-392216					
LCS 490-392216/4	Lab Control Sample	T	Solid	8260C	
LCSD 490-392216/5	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-392216/7	Method Blank	T	Solid	8260C	
490-117346-2	END 450	T	Solid	8260C	490-391835
490-117346-A-29-A MS	Matrix Spike	T	Solid	8260C	490-391700
490-117346-A-29-B MSD	Matrix Spike Duplicate	T	Solid	8260C	490-391700
Analysis Batch:490-392689					
LCS 490-392689/3	Lab Control Sample	T	Solid	8260C	
LCSD 490-392689/4	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-392689/6	Method Blank	T	Solid	8260C	
490-117346-5	END 449	T	Solid	8260C	490-391835
490-117346-7	END 452	T	Solid	8260C	490-391835
Analysis Batch:490-392855					
LCS 490-392855/3	Lab Control Sample	T	Solid	8260C	
LCSD 490-392855/4	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-392855/7	Method Blank	T	Solid	8260C	
490-117346-1	END 447	T	Solid	8260C	490-391833
490-117346-2	END 450	T	Solid	8260C	490-391833
490-117346-3	END 445	T	Solid	8260C	490-391833
490-117346-4	END 443	T	Solid	8260C	490-391833
490-117346-6	END 448	T	Solid	8260C	490-391833
490-117346-8	END 446	T	Solid	8260C	490-391833
490-117346-9	END 444	T	Solid	8260C	490-391833
490-117346-10	TP-313-6-7	T	Solid	8260C	490-391833
490-117346-10MS	Matrix Spike	T	Solid	8260C	490-391833
490-117346-10MSD	Matrix Spike Duplicate	T	Solid	8260C	490-391833
Analysis Batch:490-393067					
LCS 490-393067/4	Lab Control Sample	T	Solid	8260C	
LCSD 490-393067/5	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-393067/7	Method Blank	T	Solid	8260C	
490-117346-4	END 443	T	Solid	8260C	490-391835
490-117346-4MS	Matrix Spike	T	Solid	8260C	490-393278
490-117346-4MSD	Matrix Spike Duplicate	T	Solid	8260C	490-393278
Prep Batch: 490-393278					
490-117346-4MS	Matrix Spike	T	Solid	5035A	
490-117346-4MSD	Matrix Spike Duplicate	T	Solid	5035A	

Report Basis
T = Total

Client: Roux Associates, Inc. Job Number: 490-117346-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 490-392458					
LCS 490-392458/2-A	Lab Control Sample	T	Solid	3550C	
MB 490-392458/1-A	Method Blank	T	Solid	3550C	
490-117346-1	END 447	T	Solid	3550C	
490-117346-1MS	Matrix Spike	T	Solid	3550C	
490-117346-1MSD	Matrix Spike Duplicate	T	Solid	3550C	
490-117346-2	END 450	T	Solid	3550C	
490-117346-3	END 445	T	Solid	3550C	
490-117346-4	END 443	T	Solid	3550C	
490-117346-5	END 449	T	Solid	3550C	
490-117346-6	END 448	T	Solid	3550C	
Prep Batch: 490-392789					
LCS 490-392789/2-A	Lab Control Sample	T	Solid	3550C	
MB 490-392789/1-A	Method Blank	T	Solid	3550C	
490-117346-7	END 452	T	Solid	3550C	
490-117346-8	END 446	T	Solid	3550C	
490-117346-9	END 444	T	Solid	3550C	
490-117346-10	TP-313-6-7	T	Solid	3550C	
490-117346-A-25-C MS	Matrix Spike	T	Solid	3550C	
490-117346-A-25-D MSD	Matrix Spike Duplicate	T	Solid	3550C	
Analysis Batch:490-392957					
LCS 490-392458/2-A	Lab Control Sample	T	Solid	8270D	490-392458
MB 490-392458/1-A	Method Blank	T	Solid	8270D	490-392458
Analysis Batch:490-393758					
LCS 490-392789/2-A	Lab Control Sample	T	Solid	8270D	490-392789
MB 490-392789/1-A	Method Blank	T	Solid	8270D	490-392789
Analysis Batch:490-394282					
490-117346-1	END 447	T	Solid	8270D	490-392458
490-117346-1MS	Matrix Spike	T	Solid	8270D	490-392458
490-117346-1MSD	Matrix Spike Duplicate	T	Solid	8270D	490-392458
490-117346-2	END 450	T	Solid	8270D	490-392458
490-117346-3	END 445	T	Solid	8270D	490-392458
490-117346-4	END 443	T	Solid	8270D	490-392458
490-117346-5	END 449	T	Solid	8270D	490-392458
490-117346-6	END 448	T	Solid	8270D	490-392458
490-117346-7	END 452	T	Solid	8270D	490-392789
490-117346-8	END 446	T	Solid	8270D	490-392789
490-117346-9	END 444	T	Solid	8270D	490-392789
490-117346-10	TP-313-6-7	T	Solid	8270D	490-392789
490-117346-A-25-C MS	Matrix Spike	T	Solid	8270D	490-392789
490-117346-A-25-D MSD	Matrix Spike Duplicate	T	Solid	8270D	490-392789

Client: Roux Associates, Inc. Job Number: 490-117346-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch

Report Basis
T = Total

Client: Roux Associates, Inc. Job Number: 490-117346-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 490-392126					
LCS 490-392126/2-A	Lab Control Sample	T	Solid	3051A	
LCSD 490-392126/3-A	Lab Control Sample Duplicate	T	Solid	3051A	
MB 490-392126/1-A	Method Blank	T	Solid	3051A	
490-117214-A-2-B MS	Matrix Spike	T	Solid	3051A	
490-117214-A-2-C MSD	Matrix Spike Duplicate	T	Solid	3051A	
490-117346-2	END 450	T	Solid	3051A	
490-117346-3	END 445	T	Solid	3051A	
490-117346-4	END 443	T	Solid	3051A	
490-117346-5	END 449	T	Solid	3051A	
490-117346-6	END 448	T	Solid	3051A	
490-117346-7	END 452	T	Solid	3051A	
490-117346-8	END 446	T	Solid	3051A	
490-117346-9	END 444	T	Solid	3051A	
490-117346-10	TP-313-6-7	T	Solid	3051A	
Analysis Batch:490-392352					
LCS 490-392126/2-A	Lab Control Sample	T	Solid	6010C	490-392126
LCSD 490-392126/3-A	Lab Control Sample Duplicate	T	Solid	6010C	490-392126
MB 490-392126/1-A	Method Blank	T	Solid	6010C	490-392126
490-117214-A-2-B MS	Matrix Spike	T	Solid	6010C	490-392126
490-117214-A-2-C MSD	Matrix Spike Duplicate	T	Solid	6010C	490-392126
490-117346-2	END 450	T	Solid	6010C	490-392126
490-117346-3	END 445	T	Solid	6010C	490-392126
490-117346-4	END 443	T	Solid	6010C	490-392126
490-117346-5	END 449	T	Solid	6010C	490-392126
490-117346-6	END 448	T	Solid	6010C	490-392126
490-117346-7	END 452	T	Solid	6010C	490-392126
490-117346-8	END 446	T	Solid	6010C	490-392126
490-117346-9	END 444	T	Solid	6010C	490-392126
490-117346-10	TP-313-6-7	T	Solid	6010C	490-392126
Prep Batch: 490-392479					
LCS 490-392479/2-A	Lab Control Sample	T	Solid	3051A	
MB 490-392479/1-A	Method Blank	T	Solid	3051A	
490-117346-1	END 447	T	Solid	3051A	
490-117454-D-1-B MS	Matrix Spike	T	Solid	3051A	
490-117454-D-1-C MSD	Matrix Spike Duplicate	T	Solid	3051A	

Client: Roux Associates, Inc. Job Number: 490-117346-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:490-392645					
LCS 490-392126/2-A	Lab Control Sample	T	Solid	6010C	490-392126
LCSD 490-392126/3-A	Lab Control Sample Duplicate	T	Solid	6010C	490-392126
MB 490-392126/1-A	Method Blank	T	Solid	6010C	490-392126
490-117214-A-2-B MS	Matrix Spike	T	Solid	6010C	490-392126
490-117214-A-2-C MSD	Matrix Spike Duplicate	T	Solid	6010C	490-392126
490-117346-2	END 450	T	Solid	6010C	490-392126
490-117346-3	END 445	T	Solid	6010C	490-392126
490-117346-4	END 443	T	Solid	6010C	490-392126
490-117346-5	END 449	T	Solid	6010C	490-392126
490-117346-6	END 448	T	Solid	6010C	490-392126
490-117346-7	END 452	T	Solid	6010C	490-392126
490-117346-8	END 446	T	Solid	6010C	490-392126
490-117346-9	END 444	T	Solid	6010C	490-392126
490-117346-10	TP-313-6-7	T	Solid	6010C	490-392126
Analysis Batch:490-393176					
LCS 490-392479/2-A	Lab Control Sample	T	Solid	6010C	490-392479
MB 490-392479/1-A	Method Blank	T	Solid	6010C	490-392479
490-117346-1	END 447	T	Solid	6010C	490-392479
490-117454-D-1-B MS	Matrix Spike	T	Solid	6010C	490-392479
490-117454-D-1-C MSD	Matrix Spike Duplicate	T	Solid	6010C	490-392479
Prep Batch: 490-394265					
LCS 490-394265/2-A	Lab Control Sample	T	Solid	7471B	
MB 490-394265/1-A	Method Blank	T	Solid	7471B	
490-117346-1	END 447	T	Solid	7471B	
490-117346-1MS	Matrix Spike	T	Solid	7471B	
490-117346-1MSD	Matrix Spike Duplicate	T	Solid	7471B	
490-117346-2	END 450	T	Solid	7471B	
490-117346-3	END 445	T	Solid	7471B	
490-117346-4	END 443	T	Solid	7471B	
490-117346-5	END 449	T	Solid	7471B	
490-117346-6	END 448	T	Solid	7471B	
490-117346-7	END 452	T	Solid	7471B	
490-117346-8	END 446	T	Solid	7471B	
490-117346-9	END 444	T	Solid	7471B	
490-117346-10	TP-313-6-7	T	Solid	7471B	

Client: Roux Associates, Inc. Job Number: 490-117346-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:490-394618					
LCS 490-394265/2-A	Lab Control Sample	T	Solid	7471B	490-394265
MB 490-394265/1-A	Method Blank	T	Solid	7471B	490-394265
490-117346-1	END 447	T	Solid	7471B	490-394265
490-117346-1MS	Matrix Spike	T	Solid	7471B	490-394265
490-117346-1MSD	Matrix Spike Duplicate	T	Solid	7471B	490-394265
490-117346-2	END 450	T	Solid	7471B	490-394265
490-117346-3	END 445	T	Solid	7471B	490-394265
490-117346-4	END 443	T	Solid	7471B	490-394265
490-117346-5	END 449	T	Solid	7471B	490-394265
490-117346-6	END 448	T	Solid	7471B	490-394265
490-117346-7	END 452	T	Solid	7471B	490-394265
490-117346-8	END 446	T	Solid	7471B	490-394265
490-117346-9	END 444	T	Solid	7471B	490-394265
490-117346-10	TP-313-6-7	T	Solid	7471B	490-394265

Report Basis
T = Total

General Chemistry

Analysis Batch:490-392389					
490-117346-1	END 447	T	Solid	Moisture	
490-117346-2	END 450	T	Solid	Moisture	
490-117346-3	END 445	T	Solid	Moisture	
490-117346-4	END 443	T	Solid	Moisture	
490-117346-5	END 449	T	Solid	Moisture	
490-117346-6	END 448	T	Solid	Moisture	
490-117346-7	END 452	T	Solid	Moisture	
490-117346-7DU	Duplicate	T	Solid	Moisture	
490-117346-8	END 446	T	Solid	Moisture	
490-117346-9	END 444	T	Solid	Moisture	
490-117346-10	TP-313-6-7	T	Solid	Moisture	
490-117346-A-29 MS	Matrix Spike	T	Solid	Moisture	
490-117346-A-29 MSD	Matrix Spike Duplicate	T	Solid	Moisture	

Report Basis
T = Total

Client: Roux Associates, Inc. Job Number: 490-117346-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
490-117346-1	END 447	2012*	116	478*	2464*
490-117346-2	END 450	198*	105	106	245*
490-117346-3	END 445	850*	108	114	1879*
490-117346-4	END 443	547*	99	119	731*
490-117346-5	END 449	129	107	106	147*
490-117346-6	END 448	1397*	92	1364*	4626*
490-117346-7	END 452	189*	108	110	178*
490-117346-7	END 452	175*	106	110	188*
490-117346-8	END 446	1679*	95	392*	3253*
490-117346-9	END 444	157*	102	115	465*
490-117346-10	TP-313-6-7	159*	106	105	133*
490-117346-11	Trip Blank	113	106	99	96
MB 490-391971/7		94	101	99	98
MB 490-392216/7		103	95	93	98
MB 490-392689/6		96	93	94	99
MB 490-393067/7		90	98	98	94
LCS 490-391971/3		96	97	94	96
LCS 490-392216/4		99	95	93	100
LCS 490-392689/3		88	97	99	96
LCS 490-393067/4		84	96	99	96
LCSD 490-391971/4		95	95	94	97
LCSD 490-392216/5		98	99	97	98
LCSD 490-392689/4		89	93	93	98
LCSD 490-393067/5		84	93	90	98
490-117346-1 MS	END 447 MS	881*	102	100	1622*
490-117346-4 MS	END 443 MS	569*	106	111	723*
490-117346-A-29-A MS		136*	98	99	127
490-117346-1 MSD	END 447 MSD	901*	106	98	1825*
490-117346-4 MSD	END 443 MSD	195*	101	102	962*

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	70-130
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
490-117346-A-29-B MSD		145*	101	103	136*

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	70-130
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
490-117346-1	END 447	93	106	107	114
490-117346-2	END 450	90	105	100	102
490-117346-3	END 445	92	104	102	108
490-117346-4	END 443	90	107	101	142*
490-117346-6	END 448	98	103	100	161*
490-117346-6	END 448	92	107	103	90
490-117346-8	END 446	105	104	101	128
490-117346-9	END 444	100	104	101	92
490-117346-10	TP-313-6-7	87	102	100	103
MB 490-392855/7		89	99	101	98
LCS 490-392855/3		91	101	95	98
LCSD 490-392855/4		90	101	97	98
490-117346-10 MS	TP-313-6-7 MS	88	109	106	99
490-117346-10 MSD	TP-313-6-7 MSD	89	110	105	91

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	70-130
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Surrogate Recovery Report

8270D Semivolatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	FBP %Rec	2FP %Rec	NBZ %Rec	PHL %Rec	TPHL %Rec	TBP %Rec
490-117346-1	END 447	78	52	70	63	79	86
490-117346-2	END 450	74	56	63	64	87	99
490-117346-3	END 445	72	49	56	56	71	87
490-117346-4	END 443	87	56	76	64	86	94
490-117346-5	END 449	62	47	53	53	76	77
490-117346-6	END 448	74	49	132*	65	73	88
490-117346-7	END 452	69	61	63	69	85	83
490-117346-8	END 446	70	48	68	54	76	69
490-117346-9	END 444	71	52	62	59	79	78
490-117346-10	TP-313-6-7	89	77	78	83	92	112
MB 490-392458/1-A		71	63	74	74	89	56
MB 490-392789/1-A		81	60	82	66	97	53
LCS 490-392458/2-A		64	62	60	68	76	71
LCS 490-392789/2-A		58	46	51	50	88	84
490-117346-1 MS	END 447 MS	74	50	71	58	81	85
490-117346-A-25-C MS		44	31	33	37	61	63
490-117346-1 MSD	END 447 MSD	76	50	69	58	82	87
490-117346-A-25-D MSD		51	39	42	44	77	76

Surrogate	Acceptance Limits
FBP = 2-Fluorobiphenyl (Surr)	29-120
2FP = 2-Fluorophenol (Surr)	10-120
NBZ = Nitrobenzene-d5 (Surr)	27-120
PHL = Phenol-d5 (Surr)	10-120
TPHL = Terphenyl-d14 (Surr)	13-120
TBP = 2,4,6-Tribromophenol (Surr)	10-120

Client: Roux Associates, Inc. Job Number: 490-117346-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-391700

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-1	Analysis Batch:	490-391971	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-26.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.21 g
Analysis Date:	12/06/2016 2305			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0946				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-1	Analysis Batch:	490-391971	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-27.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.48 g
Analysis Date:	12/06/2016 2336			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0946				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	236	256	10 - 150	3	50	*	*
Benzene	-132	-98	21 - 150	13	50	*	*
Bromobenzene	242	268	10 - 150	5	50	*	*
Bromochloromethane	106	100	10 - 150	10	50		
Bromodichloromethane	196	452	10 - 150	75	50	*	*
Bromoform	91	96	10 - 150	0	50		
Bromomethane	53	59	10 - 150	6	50		
2-Butanone (MEK)	102	105	10 - 150	1	50		
Carbon disulfide	97	99	10 - 150	3	50		
Carbon tetrachloride	107	101	10 - 150	11	50		
Chlorobenzene	107	108	10 - 150	4	50		
Chloroethane	105	79	10 - 150	33	50		
Chloroform	121	127	10 - 150	0	50		
Chloromethane	81	89	10 - 150	4	50		
cis-1,2-Dichloroethene	108	111	10 - 150	3	50		
cis-1,3-Dichloropropene	142	158	10 - 150	5	50		*
Dibromochloromethane	241	291	10 - 150	14	50	*	*
1,2-Dibromo-3-chloropropane	122	116	10 - 150	9	50		*
1,2-Dibromoethane	130	133	10 - 150	2	50		
1,2-Dichlorobenzene	75	66	10 - 150	18	50		*
1,3-Dichlorobenzene	82	75	10 - 150	15	50		*
1,4-Dichlorobenzene	78	71	10 - 150	15	50		*
Dichlorodifluoromethane	119	119	10 - 150	5	50		
1,1-Dichloroethane	105	111	10 - 150	0	50		
1,2-Dichloroethane	134	142	24 - 138	0	50		*
1,1-Dichloroethene	111	113	10 - 150	3	50		
1,2-Dichloropropane	344	327	10 - 150	10	50	*	*
1,3-Dichloropropane	131	142	10 - 150	3	50		
2,2-Dichloropropane	123	125	10 - 150	3	50		
1,1-Dichloropropene	105	104	10 - 150	7	50		
Ethylbenzene	46	51	10 - 150	2	50		
Hexachlorobutadiene	14	14	10 - 150	6	50		*

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-391700

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-1	Analysis Batch:	490-391971	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-26.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.21 g
Analysis Date:	12/06/2016 2305			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0946				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-1	Analysis Batch:	490-391971	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-27.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.48 g
Analysis Date:	12/06/2016 2336			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0946				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2-Hexanone	190	114	10 - 150	54	50	*	*
Isopropylbenzene	-469	-375	10 - 150	11	50	E *	E *
Methylene bromide	95	93	10 - 150	8	50		
Methylene Chloride	224	247	24 - 150	5	50	*	*
4-Methyl-2-pentanone (MIBK)	148	171	10 - 150	9	50		*
Methyl tert butyl ether	118	120	10 - 150	3	50		
m,p-Xylene	-2129	-1550	10 - 150	11	50	E *	E *
Naphthalene	2	54	10 - 150	8	50	E *	E *
n-Butylbenzene	-522	-506	10 - 150	3	50	E *	E *
N-Propylbenzene	-458	-306	10 - 150	8	50	E *	E *
o-Chlorotoluene	1279	1418	10 - 150	5	50	E *	E *
o-Xylene	8	12	10 - 150	2	50	*	
p-Chlorotoluene	1999	2280	10 - 150	8	50	E *	E *
p-Isopropyltoluene	-2256	-2393	10 - 150	12	50	*	*
sec-Butylbenzene	-287	-246	10 - 150	7	50	*	*
Styrene	89	89	10 - 150	6	50		
tert-Butylbenzene	109	105	10 - 150	9	50		*
1,1,1,2-Tetrachloroethane	107	109	10 - 150	3	50		
1,1,2,2-Tetrachloroethane	2259	2269	10 - 150	5	50	E *	E *
Tetrachloroethene	76	72	10 - 150	11	50		
Toluene	134	148	17 - 150	5	50		
trans-1,2-Dichloroethene	111	115	10 - 150	1	50		
trans-1,3-Dichloropropene	133	146	10 - 150	4	50		
1,2,3-Trichlorobenzene	39	36	10 - 150	12	50		*
1,2,4-Trichlorobenzene	26	20	10 - 150	30	50		*
1,1,1-Trichloroethane	108	109	10 - 150	4	50		
1,1,2-Trichloroethane	11997	14090	10 - 150	11	50	E *	E *
Trichloroethene	100	99	10 - 150	6	50		
Trichlorofluoromethane	116	113	10 - 150	8	50		
1,2,3-Trichloropropane	1324	798	10 - 150	54	50	E *	*
1,2,4-Trimethylbenzene	-2469	-1790	10 - 150	7	50	E *	E *
1,3,5-Trimethylbenzene	-1812	-1314	10 - 150	7	50	E *	E *

Client: Roux Associates, Inc. Job Number: 490-117346-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-391700

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-1	Analysis Batch:	490-391971	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-26.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.21 g
Analysis Date:	12/06/2016 2305			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0946				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-1	Analysis Batch:	490-391971	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-27.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.48 g
Analysis Date:	12/06/2016 2336			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0946				5 mL
Leach Date:	N/A				

	% Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Vinyl acetate	122	125	10 - 150	2	50		
Vinyl chloride	102	106	10 - 150	2	50		
Xylenes (total)	-1056	-765	10 - 150	11	50	*	*

Surrogate	MS % Rec		MSD % Rec		Acceptance Limits
4-Bromofluorobenzene (Surr)	881	*	901	*	70 - 130
Dibromofluoromethane (Surr)	102		106		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		98		70 - 130
Toluene-d8 (Surr)	1622	*	1825	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-391700

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-A-29-A MS	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-49.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.17 g
Analysis Date:	12/07/2016 1053			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1509				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-A-29-B MSD	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-50.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.08 g
Analysis Date:	12/07/2016 1124			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1509				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	125	145	10 - 150	14	50		
Benzene	102	94	21 - 150	5	50		
Bromobenzene	137	116	10 - 150	15	50		
Bromochloromethane	104	104	10 - 150	2	50		
Bromodichloromethane	103	102	10 - 150	0	50		
Bromoform	98	87	10 - 150	10	50		
Bromomethane	79	80	10 - 150	4	50		
2-Butanone (MEK)	107	110	10 - 150	4	50		
Carbon disulfide	102	95	10 - 150	5	50		
Carbon tetrachloride	110	108	10 - 150	1	50		
Chlorobenzene	103	95	10 - 150	6	50		
Chloroethane	97	93	10 - 150	3	50		
Chloroform	102	100	10 - 150	1	50		
Chloromethane	79	75	10 - 150	5	50		
cis-1,2-Dichloroethene	105	103	10 - 150	0	50		
cis-1,3-Dichloropropene	110	107	10 - 150	1	50		
Dibromochloromethane	108	103	10 - 150	3	50		
1,2-Dibromo-3-chloropropane	128	95	10 - 150	28	50		
1,2-Dibromoethane	104	98	10 - 150	5	50		
1,2-Dichlorobenzene	101	80	10 - 150	22	50		
1,3-Dichlorobenzene	110	96	10 - 150	12	50		
1,4-Dichlorobenzene	107	91	10 - 150	15	50		
Dichlorodifluoromethane	124	115	10 - 150	6	50		
1,1-Dichloroethane	102	98	10 - 150	2	50		
1,2-Dichloroethane	100	100	24 - 138	2	50		
1,1-Dichloroethene	111	104	10 - 150	5	50		
1,2-Dichloropropane	100	109	10 - 150	10	50		
1,3-Dichloropropane	105	99	10 - 150	3	50		
2,2-Dichloropropane	118	114	10 - 150	2	50		
1,1-Dichloropropene	104	101	10 - 150	1	50		
Ethylbenzene	109	106	10 - 150	1	50		
Hexachlorobutadiene	27	40	10 - 150	43	50		

Client: Roux Associates, Inc. Job Number: 490-117346-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-391700

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-A-29-A MS	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-49.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.17 g
Analysis Date:	12/07/2016 1053			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1509				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-A-29-B MSD	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-50.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.08 g
Analysis Date:	12/07/2016 1124			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1509				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2-Hexanone	109	100	10 - 150	7	50		
Isopropylbenzene	81	98	10 - 150	16	50		
Methylene bromide	98	96	10 - 150	1	50		
Methylene Chloride	526	637	24 - 150	21	50	*	*
4-Methyl-2-pentanone (MIBK)	109	103	10 - 150	4	50		
Methyl tert butyl ether	116	117	10 - 150	3	50		
m,p-Xylene	99	102	10 - 150	4	50		
Naphthalene	53	32	10 - 150	48	50		
n-Butylbenzene	70	91	10 - 150	27	50		
N-Propylbenzene	119	146	10 - 150	18	50		
o-Chlorotoluene	134	134	10 - 150	2	50		
o-Xylene	96	97	10 - 150	2	50		
p-Chlorotoluene	128	119	10 - 150	6	50		
p-Isopropyltoluene	88	114	10 - 150	27	50		
sec-Butylbenzene	84	129	10 - 150	37	50		
Styrene	93	77	10 - 150	17	50		
tert-Butylbenzene	96	126	10 - 150	27	50		
1,1,1,2-Tetrachloroethane	110	105	10 - 150	3	50		
1,1,2,2-Tetrachloroethane	165	165	10 - 150	2	50	*	*
Tetrachloroethene	109	110	10 - 150	2	50		
Toluene	111	109	17 - 150	0	50		
trans-1,2-Dichloroethene	102	97	10 - 150	3	50		
trans-1,3-Dichloropropene	109	103	10 - 150	4	50		
1,2,3-Trichlorobenzene	39	35	10 - 150	9	50		
1,2,4-Trichlorobenzene	49	45	10 - 150	7	50		
1,1,1-Trichloroethane	109	103	10 - 150	4	50		
1,1,2-Trichloroethane	382	655	10 - 150	54	50	*	*
Trichloroethene	106	100	10 - 150	5	50		
Trichlorofluoromethane	114	110	10 - 150	2	50		
1,2,3-Trichloropropane	163	142	10 - 150	12	50	*	
1,2,4-Trimethylbenzene	121	162	10 - 150	19	50		*
1,3,5-Trimethylbenzene	114	141	10 - 150	20	50		

Client: Roux Associates, Inc. Job Number: 490-117346-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-391700

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-A-29-A MS	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-49.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.17 g
Analysis Date:	12/07/2016 1053			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1509				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-A-29-B MSD	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-50.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.08 g
Analysis Date:	12/07/2016 1124			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1509				5 mL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Vinyl acetate	174	177	10 - 150	3	50	*	*
Vinyl chloride	103	98	10 - 150	4	50		
Xylenes (total)	98	99	10 - 150	3	50		

Surrogate	MS % Rec		MSD % Rec		Acceptance Limits
4-Bromofluorobenzene (Surr)	136	*	145	*	70 - 130
Dibromofluoromethane (Surr)	98		101		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		103		70 - 130
Toluene-d8 (Surr)	127		136	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-391833

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-10	Analysis Batch:	490-392855	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	490-391833	Lab File ID:	12081635.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	4.914 g
Analysis Date:	12/09/2016 0148			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1145				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-10	Analysis Batch:	490-392855	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	490-391833	Lab File ID:	12081636.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	4.914 g
Analysis Date:	12/09/2016 0216			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1145				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	98	100	10 - 150	2	50		
Benzene	86	85	21 - 150	0	50		
Bromobenzene	69	70	10 - 150	2	50		
Bromochloromethane	96	97	10 - 150	0	50		
Bromodichloromethane	86	88	10 - 150	3	50		
Bromoform	87	77	10 - 150	13	50		
Bromomethane	79	85	10 - 150	8	50		
2-Butanone (MEK)	94	95	10 - 150	2	50		
Carbon disulfide	82	82	10 - 150	1	50		
Carbon tetrachloride	94	95	10 - 150	0	50		
Chlorobenzene	81	79	10 - 150	3	50		
Chloroethane	100	97	10 - 150	3	50		
Chloroform	89	89	10 - 150	0	50		
Chloromethane	82	83	10 - 150	1	50		
cis-1,2-Dichloroethene	85	85	10 - 150	1	50		
cis-1,3-Dichloropropene	79	70	10 - 150	11	50		
Dibromochloromethane	88	81	10 - 150	9	50		
1,2-Dibromo-3-chloropropane	88	89	10 - 150	0	50		
1,2-Dibromoethane	83	81	10 - 150	3	50		
1,2-Dichlorobenzene	77	73	10 - 150	5	50		
1,3-Dichlorobenzene	73	69	10 - 150	6	50		
1,4-Dichlorobenzene	71	68	10 - 150	4	50		
Dichlorodifluoromethane	113	112	10 - 150	0	50		
1,1-Dichloroethane	84	83	10 - 150	1	50		
1,2-Dichloroethane	90	91	24 - 138	1	50		
1,1-Dichloroethene	89	88	10 - 150	2	50		
1,2-Dichloropropane	80	79	10 - 150	1	50		
1,3-Dichloropropane	79	74	10 - 150	6	50		
2,2-Dichloropropane	89	89	10 - 150	0	50		
1,1-Dichloropropene	84	83	10 - 150	1	50		
Ethylbenzene	80	77	10 - 150	3	50		
Hexachlorobutadiene	74	70	10 - 150	4	50		

Client: Roux Associates, Inc. Job Number: 490-117346-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-391833

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-10	Analysis Batch:	490-392855	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	490-391833	Lab File ID:	12081635.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	4.914 g
Analysis Date:	12/09/2016 0148			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1145				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-10	Analysis Batch:	490-392855	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	490-391833	Lab File ID:	12081636.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	4.914 g
Analysis Date:	12/09/2016 0216			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1145				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2-Hexanone	84	90	10 - 150	7	50		
Isopropylbenzene	82	66	10 - 150	22	50		
Methylene bromide	88	90	10 - 150	1	50		
Methylene Chloride	85	85	24 - 150	0	50		
4-Methyl-2-pentanone (MIBK)	83	76	10 - 150	9	50		
Methyl tert butyl ether	93	95	10 - 150	2	50		
m,p-Xylene	77	75	10 - 150	2	50		
Naphthalene	81	80	10 - 150	1	50		
n-Butylbenzene	72	66	10 - 150	8	50		
N-Propylbenzene	70	69	10 - 150	2	50		
o-Chlorotoluene	72	69	10 - 150	5	50		
o-Xylene	79	65	10 - 150	20	50		
p-Chlorotoluene	70	65	10 - 150	7	50		
p-Isopropyltoluene	75	69	10 - 150	9	50		
sec-Butylbenzene	76	70	10 - 150	9	50		
Styrene	78	64	10 - 150	20	50		
tert-Butylbenzene	79	74	10 - 150	7	50		
1,1,1,2-Tetrachloroethane	85	81	10 - 150	5	50		
1,1,2,2-Tetrachloroethane	76	80	10 - 150	6	50		
Tetrachloroethene	80	73	10 - 150	9	50		
Toluene	82	74	17 - 150	10	50		
trans-1,2-Dichloroethene	83	84	10 - 150	1	50		
trans-1,3-Dichloropropene	79	73	10 - 150	8	50		
1,2,3-Trichlorobenzene	75	74	10 - 150	2	50		
1,2,4-Trichlorobenzene	68	66	10 - 150	2	50		
1,1,1-Trichloroethane	93	94	10 - 150	1	50		
1,1,2-Trichloroethane	87	80	10 - 150	8	50		
Trichloroethene	88	87	10 - 150	1	50		
Trichlorofluoromethane	95	101	10 - 150	6	50		
1,2,3-Trichloropropane	79	82	10 - 150	4	50		
1,2,4-Trimethylbenzene	75	69	10 - 150	8	50		
1,3,5-Trimethylbenzene	74	70	10 - 150	6	50		

Client: Roux Associates, Inc. Job Number: 490-117346-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-391833

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-10	Analysis Batch:	490-392855	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	490-391833	Lab File ID:	12081635.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	4.914 g
Analysis Date:	12/09/2016 0148			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1145				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-10	Analysis Batch:	490-392855	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	490-391833	Lab File ID:	12081636.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	4.914 g
Analysis Date:	12/09/2016 0216			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1145				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Vinyl acetate	40	36	10 - 150	10	50		
Vinyl chloride	85	84	10 - 150	1	50		
Xylenes (total)	78	70	10 - 150	11	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	88	89	70 - 130
Dibromofluoromethane (Surr)	109	110	70 - 130
1,2-Dichloroethane-d4 (Surr)	106	105	70 - 130
Toluene-d8 (Surr)	99	91	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Method Blank - Batch: 490-391971

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-391971/7	Analysis Batch:	490-391971	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-12.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/06/2016 1532	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	0.00840	U	0.00840	0.0500
Benzene	0.000670	U	0.000670	0.00200
Bromobenzene	0.000720	U	0.000720	0.00200
Bromochloromethane	0.000550	U	0.000550	0.00200
Bromodichloromethane	0.000550	U	0.000550	0.00200
Bromoform	0.000550	U	0.000550	0.00200
Bromomethane	0.00120	U	0.00120	0.00200
2-Butanone (MEK)	0.00510	U	0.00510	0.0500
Carbon disulfide	0.00360	U	0.00360	0.00500
Carbon tetrachloride	0.000670	U	0.000670	0.00200
Chlorobenzene	0.000670	U	0.000670	0.00200
Chloroethane	0.00190	U	0.00190	0.00500
Chloroform	0.000670	U	0.000670	0.00200
Chloromethane	0.000670	U	0.000670	0.00200
cis-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
cis-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
Dibromochloromethane	0.000340	U	0.000340	0.00200
1,2-Dibromo-3-chloropropane	0.000700	U	0.000700	0.00500
1,2-Dibromoethane	0.00100	U	0.00100	0.00200
1,2-Dichlorobenzene	0.000340	U	0.000340	0.00200
1,3-Dichlorobenzene	0.000670	U	0.000670	0.00200
1,4-Dichlorobenzene	0.000670	U	0.000670	0.00200
Dichlorodifluoromethane	0.00100	U	0.00100	0.00200
1,1-Dichloroethane	0.000670	U	0.000670	0.00200
1,2-Dichloroethane	0.000670	U	0.000670	0.00200
1,1-Dichloroethene	0.000570	U	0.000570	0.00200
1,2-Dichloropropane	0.000940	U	0.000940	0.00200
1,3-Dichloropropane	0.000940	U	0.000940	0.00200
2,2-Dichloropropane	0.000670	U	0.000670	0.00200
1,1-Dichloropropene	0.000510	U	0.000510	0.00200
Ethylbenzene	0.000670	U	0.000670	0.00200
Hexachlorobutadiene	0.00114	U	0.00114	0.00500
2-Hexanone	0.0167	U	0.0167	0.0500
Iodomethane	0.00670	U	0.00670	0.0200
Isopropylbenzene	0.000410	U	0.000410	0.00200
Methylene bromide	0.000560	U	0.000560	0.00200
Methylene Chloride	0.000860	U	0.000860	0.0100
4-Methyl-2-pentanone (MIBK)	0.00190	U	0.00190	0.0500
Methyl tert butyl ether	0.000960	U	0.000960	0.00200
m,p-Xylene	0.000560	U	0.000560	0.00400
Naphthalene	0.00170	U	0.00170	0.00500
n-Butylbenzene	0.000980	U	0.000980	0.00200
N-Propylbenzene	0.000670	U	0.000670	0.00200
o-Chlorotoluene	0.000890	U	0.000890	0.00200
o-Xylene	0.000670	U	0.000670	0.00200

Client: Roux Associates, Inc. Job Number: 490-117346-1

Method Blank - Batch: 490-391971

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-391971/7	Analysis Batch:	490-391971	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-12.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/06/2016 1532	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.000840	U	0.000840	0.00200
p-Isopropyltoluene	0.000670	U	0.000670	0.00200
sec-Butylbenzene	0.000670	U	0.000670	0.00200
Styrene	0.00110	U	0.00110	0.00200
tert-Butylbenzene	0.000900	U	0.000900	0.00200
1,1,1,2-Tetrachloroethane	0.000670	U	0.000670	0.00200
1,1,2,2-Tetrachloroethane	0.00100	U	0.00100	0.00200
Tetrachloroethene	0.000730	U	0.000730	0.00200
Toluene	0.000740	U	0.000740	0.00200
trans-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
trans-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
1,2,3-Trichlorobenzene	0.000380	U	0.000380	0.00200
1,2,4-Trichlorobenzene	0.000670	U	0.000670	0.00200
1,1,1-Trichloroethane	0.000920	U	0.000920	0.00200
1,1,2-Trichloroethane	0.00140	U	0.00140	0.00500
Trichloroethene	0.000960	U	0.000960	0.00200
Trichlorofluoromethane	0.00100	U	0.00100	0.00200
1,2,3-Trichloropropane	0.000550	U	0.000550	0.00200
1,2,4-Trimethylbenzene	0.00100	U	0.00100	0.00200
1,3,5-Trimethylbenzene	0.000750	U	0.000750	0.00200
Vinyl acetate	0.00440	U	0.00440	0.0200
Vinyl chloride	0.00110	U	0.00110	0.00200
Xylenes (total)	0.00123	U	0.00123	0.00600

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	94	70 - 130
Dibromofluoromethane (Surr)	101	70 - 130
1,2-Dichloroethane-d4 (Surr)	99	70 - 130
Toluene-d8 (Surr)	98	70 - 130

Method Blank TICs- Batch: 490-391971

Cas Number	Analyte	RT	Est. Result (mg	Qual
	Tentatively Identified Compound		None	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-391971

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-391971/3	Analysis Batch:	490-391971	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-08.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/06/2016 1330	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-391971/4	Analysis Batch:	490-391971	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-09.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/06/2016 1401	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	99	82	45 - 145	19	38		
Benzene	116	100	70 - 130	15	37		
Bromobenzene	115	99	67 - 130	15	40		
Bromochloromethane	114	102	70 - 133	11	15		
Bromodichloromethane	109	97	70 - 130	12	20		
Bromoform	115	102	59 - 137	12	17		
Bromomethane	131	116	32 - 150	12	45		
2-Butanone (MEK)	112	95	50 - 149	16	39		
Carbon disulfide	117	100	66 - 138	15	41		
Carbon tetrachloride	131	114	70 - 131	14	41		
Chlorobenzene	119	104	70 - 130	14	40		
Chloroethane	108	91	37 - 150	17	50		
Chloroform	111	96	70 - 130	14	15		
Chloromethane	95	79	53 - 150	18	47		
cis-1,2-Dichloroethene	119	102	70 - 132	16	18		
cis-1,3-Dichloropropene	104	94	70 - 130	10	42		
Dibromochloromethane	110	97	70 - 130	13	14		
1,2-Dibromo-3-chloropropane	113	98	47 - 144	14	38		
1,2-Dibromoethane	105	93	69 - 130	12	17		
1,2-Dichlorobenzene	122	109	70 - 134	11	40		
1,3-Dichlorobenzene	131	114	69 - 137	14	41		
1,4-Dichlorobenzene	130	115	66 - 134	13	41		
Dichlorodifluoromethane	127	111	32 - 150	14	50		
1,1-Dichloroethane	111	96	70 - 130	15	42		
1,2-Dichloroethane	106	96	65 - 134	10	16		
1,1-Dichloroethene	121	107	70 - 131	13	43		
1,2-Dichloropropane	100	90	70 - 130	10	15		
1,3-Dichloropropane	100	90	70 - 130	11	15		
2,2-Dichloropropane	135	117	57 - 150	15	42		
1,1-Dichloropropene	116	99	70 - 130	16	41		
Ethylbenzene	117	102	70 - 130	14	38		
Hexachlorobutadiene	114	100	64 - 137	13	44		
2-Hexanone	104	88	47 - 148	17	38		
Isopropylbenzene	118	104	70 - 130	13	39		
Methylene bromide	107	98	70 - 130	10	19		

Client: Roux Associates, Inc. Job Number: 490-117346-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-391971

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-391971/3	Analysis Batch:	490-391971	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-08.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/06/2016 1330	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-391971/4	Analysis Batch:	490-391971	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-09.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/06/2016 1401	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	110	96	69 - 130	14	19		
4-Methyl-2-pentanone (MIBK)	100	86	48 - 150	15	41		
Methyl tert butyl ether	106	100	54 - 145	6	36		
m,p-Xylene	118	103	70 - 130	13	38		
Naphthalene	104	91	55 - 149	13	37		
n-Butylbenzene	117	106	57 - 150	9	39		
N-Propylbenzene	127	109	62 - 150	16	38		
o-Chlorotoluene	132	98	70 - 132	29	41		
o-Xylene	118	103	70 - 130	14	38		
p-Chlorotoluene	130	111	67 - 135	16	41		
p-Isopropyltoluene	124	107	66 - 147	15	38		
sec-Butylbenzene	120	105	68 - 147	13	38		
Styrene	117	104	70 - 131	12	40		
tert-Butylbenzene	113	97	70 - 138	15	38		
1,1,1,2-Tetrachloroethane	123	106	70 - 130	15	41		
1,1,2,2-Tetrachloroethane	110	94	61 - 134	16	16		
Tetrachloroethene	127	111	70 - 130	13	41		
Toluene	114	99	70 - 130	14	40		
trans-1,2-Dichloroethene	113	97	70 - 130	15	41		
trans-1,3-Dichloropropene	106	93	67 - 130	13	41		
1,2,3-Trichlorobenzene	117	108	57 - 146	8	42		
1,2,4-Trichlorobenzene	107	104	47 - 150	3	43		
1,1,1-Trichloroethane	125	106	70 - 130	16	41		
1,1,2-Trichloroethane	97	85	70 - 130	13	17		
Trichloroethene	121	106	70 - 130	12	41		
Trichlorofluoromethane	130	115	53 - 150	13	49		
1,2,3-Trichloropropane	112	99	60 - 139	12	16		
1,2,4-Trimethylbenzene	118	109	70 - 140	8	38		
1,3,5-Trimethylbenzene	137	116	69 - 141	17	38		
Vinyl acetate	159	159	10 - 150	1	50	*	*
Vinyl chloride	108	92	63 - 150	17	46		
Xylenes (total)	118	103	70 - 130	13	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	96	95	70 - 130
Dibromofluoromethane (Surr)	97	95	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94	94	70 - 130
Toluene-d8 (Surr)	96	97	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Method Blank - Batch: 490-392216

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-392216/7	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-34.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/07/2016 0311	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	0.00840	U	0.00840	0.0500
Benzene	0.000670	U	0.000670	0.00200
Bromobenzene	0.000720	U	0.000720	0.00200
Bromochloromethane	0.000550	U	0.000550	0.00200
Bromodichloromethane	0.000550	U	0.000550	0.00200
Bromoform	0.000550	U	0.000550	0.00200
Bromomethane	0.00120	U	0.00120	0.00200
2-Butanone (MEK)	0.00510	U	0.00510	0.0500
Carbon disulfide	0.00360	U	0.00360	0.00500
Carbon tetrachloride	0.000670	U	0.000670	0.00200
Chlorobenzene	0.000670	U	0.000670	0.00200
Chloroethane	0.00190	U	0.00190	0.00500
Chloroform	0.000670	U	0.000670	0.00200
Chloromethane	0.000670	U	0.000670	0.00200
cis-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
cis-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
Dibromochloromethane	0.000340	U	0.000340	0.00200
1,2-Dibromo-3-chloropropane	0.000700	U	0.000700	0.00500
1,2-Dibromoethane	0.00100	U	0.00100	0.00200
1,2-Dichlorobenzene	0.000340	U	0.000340	0.00200
1,3-Dichlorobenzene	0.000670	U	0.000670	0.00200
1,4-Dichlorobenzene	0.000670	U	0.000670	0.00200
Dichlorodifluoromethane	0.00100	U	0.00100	0.00200
1,1-Dichloroethane	0.000670	U	0.000670	0.00200
1,2-Dichloroethane	0.000670	U	0.000670	0.00200
1,1-Dichloroethene	0.000570	U	0.000570	0.00200
1,2-Dichloropropane	0.000940	U	0.000940	0.00200
1,3-Dichloropropane	0.000940	U	0.000940	0.00200
2,2-Dichloropropane	0.000670	U	0.000670	0.00200
1,1-Dichloropropene	0.000510	U	0.000510	0.00200
Ethylbenzene	0.000670	U	0.000670	0.00200
Hexachlorobutadiene	0.00114	U	0.00114	0.00500
2-Hexanone	0.0167	U	0.0167	0.0500
Iodomethane	0.00670	U	0.00670	0.0200
Isopropylbenzene	0.000410	U	0.000410	0.00200
Methylene bromide	0.000560	U	0.000560	0.00200
Methylene Chloride	0.000860	U	0.000860	0.0100
4-Methyl-2-pentanone (MIBK)	0.00190	U	0.00190	0.0500
Methyl tert butyl ether	0.000960	U	0.000960	0.00200
m,p-Xylene	0.000560	U	0.000560	0.00400
Naphthalene	0.00170	U	0.00170	0.00500
n-Butylbenzene	0.000980	U	0.000980	0.00200
N-Propylbenzene	0.000670	U	0.000670	0.00200
o-Chlorotoluene	0.000890	U	0.000890	0.00200
o-Xylene	0.000670	U	0.000670	0.00200

Client: Roux Associates, Inc. Job Number: 490-117346-1

Method Blank - Batch: 490-392216

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-392216/7	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-34.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/07/2016 0311	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.000840	U	0.000840	0.00200
p-Isopropyltoluene	0.000670	U	0.000670	0.00200
sec-Butylbenzene	0.000670	U	0.000670	0.00200
Styrene	0.00110	U	0.00110	0.00200
tert-Butylbenzene	0.000900	U	0.000900	0.00200
1,1,1,2-Tetrachloroethane	0.000670	U	0.000670	0.00200
1,1,2,2-Tetrachloroethane	0.00100	U	0.00100	0.00200
Tetrachloroethene	0.000730	U	0.000730	0.00200
Toluene	0.000740	U	0.000740	0.00200
trans-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
trans-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
1,2,3-Trichlorobenzene	0.0005619	J	0.000380	0.00200
1,2,4-Trichlorobenzene	0.000670	U	0.000670	0.00200
1,1,1-Trichloroethane	0.000920	U	0.000920	0.00200
1,1,2-Trichloroethane	0.00140	U	0.00140	0.00500
Trichloroethene	0.000960	U	0.000960	0.00200
Trichlorofluoromethane	0.00100	U	0.00100	0.00200
1,2,3-Trichloropropane	0.000550	U	0.000550	0.00200
1,2,4-Trimethylbenzene	0.00100	U	0.00100	0.00200
1,3,5-Trimethylbenzene	0.000750	U	0.000750	0.00200
Vinyl acetate	0.00440	U	0.00440	0.0200
Vinyl chloride	0.00110	U	0.00110	0.00200
Xylenes (total)	0.00123	U	0.00123	0.00600

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
Dibromofluoromethane (Surr)	95	70 - 130
1,2-Dichloroethane-d4 (Surr)	93	70 - 130
Toluene-d8 (Surr)	98	70 - 130

Method Blank TICs- Batch: 490-392216

Cas Number	Analyte	RT	Est. Result (mg	Qual
91-57-6	2-Methylnaphthalene	12.60	0.004608	J

Client: Roux Associates, Inc. Job Number: 490-117346-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-392216

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-392216/4	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-31.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/07/2016 0139	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-392216/5	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-32.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/07/2016 0210	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	85	80	45 - 145	7	38		
Benzene	102	99	70 - 130	3	37		
Bromobenzene	99	93	67 - 130	6	40		
Bromochloromethane	99	101	70 - 133	2	15		
Bromodichloromethane	99	96	70 - 130	3	20		
Bromoform	100	100	59 - 137	0	17		
Bromomethane	67	71	32 - 150	7	45		
2-Butanone (MEK)	97	95	50 - 149	1	39		
Carbon disulfide	96	96	66 - 138	0	41		
Carbon tetrachloride	111	107	70 - 131	4	41		
Chlorobenzene	103	99	70 - 130	4	40		
Chloroethane	108	84	37 - 150	24	50		
Chloroform	98	97	70 - 130	1	15		
Chloromethane	81	82	53 - 150	0	47		
cis-1,2-Dichloroethene	102	101	70 - 132	1	18		
cis-1,3-Dichloropropene	100	96	70 - 130	4	42		
Dibromochloromethane	98	96	70 - 130	2	14		
1,2-Dibromo-3-chloropropane	110	106	47 - 144	4	38		
1,2-Dibromoethane	95	95	69 - 130	0	17		
1,2-Dichlorobenzene	105	99	70 - 134	6	40		
1,3-Dichlorobenzene	105	100	69 - 137	4	41		
1,4-Dichlorobenzene	101	96	66 - 134	5	41		
Dichlorodifluoromethane	118	113	32 - 150	4	50		
1,1-Dichloroethane	98	97	70 - 130	1	42		
1,2-Dichloroethane	93	95	65 - 134	3	16		
1,1-Dichloroethene	104	104	70 - 131	1	43		
1,2-Dichloropropane	94	90	70 - 130	3	15		
1,3-Dichloropropane	93	91	70 - 130	2	15		
2,2-Dichloropropane	117	111	57 - 150	5	42		
1,1-Dichloropropene	101	98	70 - 130	3	41		
Ethylbenzene	105	100	70 - 130	5	38		
Hexachlorobutadiene	97	93	64 - 137	5	44		
2-Hexanone	97	96	47 - 148	2	38		
Isopropylbenzene	108	102	70 - 130	5	39		
Methylene bromide	94	93	70 - 130	1	19		

Client: Roux Associates, Inc. Job Number: 490-117346-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-392216

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-392216/4	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-31.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/07/2016 0139	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-392216/5	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-32.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/07/2016 0210	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	95	98	69 - 130	2	19		
4-Methyl-2-pentanone (MIBK)	95	90	48 - 150	6	41		
Methyl tert butyl ether	107	110	54 - 145	2	36		
m,p-Xylene	107	101	70 - 130	6	38		
Naphthalene	110	110	55 - 149	0	37		
n-Butylbenzene	102	98	57 - 150	4	39		
N-Propylbenzene	109	102	62 - 150	7	38		
o-Chlorotoluene	107	101	70 - 132	6	41		
o-Xylene	105	100	70 - 130	5	38		
p-Chlorotoluene	101	98	67 - 135	3	41		
p-Isopropyltoluene	109	102	66 - 147	7	38		
sec-Butylbenzene	110	103	68 - 147	6	38		
Styrene	106	102	70 - 131	4	40		
tert-Butylbenzene	109	104	70 - 138	5	38		
1,1,1,2-Tetrachloroethane	107	105	70 - 130	2	41		
1,1,2,2-Tetrachloroethane	92	90	61 - 134	2	16		
Tetrachloroethene	105	99	70 - 130	5	41		
Toluene	103	96	70 - 130	7	40		
trans-1,2-Dichloroethene	98	96	70 - 130	3	41		
trans-1,3-Dichloropropene	100	97	67 - 130	3	41		
1,2,3-Trichlorobenzene	108	99	57 - 146	8	42		
1,2,4-Trichlorobenzene	100	95	47 - 150	5	43		
1,1,1-Trichloroethane	108	106	70 - 130	2	41		
1,1,2-Trichloroethane	88	87	70 - 130	1	17		
Trichloroethene	105	99	70 - 130	6	41		
Trichlorofluoromethane	109	107	53 - 150	2	49		
1,2,3-Trichloropropane	92	92	60 - 139	0	16		
1,2,4-Trimethylbenzene	112	106	70 - 140	6	38		
1,3,5-Trimethylbenzene	109	104	69 - 141	5	38		
Vinyl acetate	53	48	10 - 150	11	50		
Vinyl chloride	100	98	63 - 150	2	46		
Xylenes (total)	106	100	70 - 130	6	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	99	98	70 - 130
Dibromofluoromethane (Surr)	95	99	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93	97	70 - 130
Toluene-d8 (Surr)	100	98	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Method Blank - Batch: 490-392689

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-392689/6	Analysis Batch:	490-392689	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120816-06.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/08/2016 1254	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	0.00840	U	0.00840	0.0500
Benzene	0.000670	U	0.000670	0.00200
Bromobenzene	0.000720	U	0.000720	0.00200
Bromochloromethane	0.000550	U	0.000550	0.00200
Bromodichloromethane	0.000550	U	0.000550	0.00200
Bromoform	0.000550	U	0.000550	0.00200
Bromomethane	0.00120	U	0.00120	0.00200
2-Butanone (MEK)	0.00510	U	0.00510	0.0500
Carbon disulfide	0.00360	U	0.00360	0.00500
Carbon tetrachloride	0.000670	U	0.000670	0.00200
Chlorobenzene	0.000670	U	0.000670	0.00200
Chloroethane	0.00190	U	0.00190	0.00500
Chloroform	0.000670	U	0.000670	0.00200
Chloromethane	0.000670	U	0.000670	0.00200
cis-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
cis-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
Dibromochloromethane	0.000340	U	0.000340	0.00200
1,2-Dibromo-3-chloropropane	0.000700	U	0.000700	0.00500
1,2-Dibromoethane	0.00100	U	0.00100	0.00200
1,2-Dichlorobenzene	0.000340	U	0.000340	0.00200
1,3-Dichlorobenzene	0.000670	U	0.000670	0.00200
1,4-Dichlorobenzene	0.000670	U	0.000670	0.00200
Dichlorodifluoromethane	0.00100	U	0.00100	0.00200
1,1-Dichloroethane	0.000670	U	0.000670	0.00200
1,2-Dichloroethane	0.000670	U	0.000670	0.00200
1,1-Dichloroethene	0.000570	U	0.000570	0.00200
1,2-Dichloropropane	0.000940	U	0.000940	0.00200
1,3-Dichloropropane	0.000940	U	0.000940	0.00200
2,2-Dichloropropane	0.000670	U	0.000670	0.00200
1,1-Dichloropropene	0.000510	U	0.000510	0.00200
Ethylbenzene	0.000670	U	0.000670	0.00200
Hexachlorobutadiene	0.00114	U	0.00114	0.00500
2-Hexanone	0.0167	U	0.0167	0.0500
Iodomethane	0.00670	U	0.00670	0.0200
Isopropylbenzene	0.000410	U	0.000410	0.00200
Methylene bromide	0.000560	U	0.000560	0.00200
Methylene Chloride	0.000860	U	0.000860	0.0100
4-Methyl-2-pentanone (MIBK)	0.00190	U	0.00190	0.0500
Methyl tert butyl ether	0.000960	U	0.000960	0.00200
m,p-Xylene	0.000560	U	0.000560	0.00400
Naphthalene	0.00170	U	0.00170	0.00500
n-Butylbenzene	0.000980	U	0.000980	0.00200
N-Propylbenzene	0.000670	U	0.000670	0.00200
o-Chlorotoluene	0.000890	U	0.000890	0.00200
o-Xylene	0.000670	U	0.000670	0.00200

Client: Roux Associates, Inc. Job Number: 490-117346-1

Method Blank - Batch: 490-392689

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-392689/6	Analysis Batch:	490-392689	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120816-06.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/08/2016 1254	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.000840	U	0.000840	0.00200
p-Isopropyltoluene	0.000670	U	0.000670	0.00200
sec-Butylbenzene	0.000670	U	0.000670	0.00200
Styrene	0.00110	U	0.00110	0.00200
tert-Butylbenzene	0.000900	U	0.000900	0.00200
1,1,1,2-Tetrachloroethane	0.000670	U	0.000670	0.00200
1,1,2,2-Tetrachloroethane	0.00100	U	0.00100	0.00200
Tetrachloroethene	0.000730	U	0.000730	0.00200
Toluene	0.000740	U	0.000740	0.00200
trans-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
trans-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
1,2,3-Trichlorobenzene	0.0004074	J	0.000380	0.00200
1,2,4-Trichlorobenzene	0.000670	U	0.000670	0.00200
1,1,1-Trichloroethane	0.000920	U	0.000920	0.00200
1,1,2-Trichloroethane	0.00140	U	0.00140	0.00500
Trichloroethene	0.000960	U	0.000960	0.00200
Trichlorofluoromethane	0.00100	U	0.00100	0.00200
1,2,3-Trichloropropane	0.000550	U	0.000550	0.00200
1,2,4-Trimethylbenzene	0.00100	U	0.00100	0.00200
1,3,5-Trimethylbenzene	0.000750	U	0.000750	0.00200
Vinyl acetate	0.00440	U	0.00440	0.0200
Vinyl chloride	0.00110	U	0.00110	0.00200
Xylenes (total)	0.00123	U	0.00123	0.00600

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	96	70 - 130
Dibromofluoromethane (Surr)	93	70 - 130
1,2-Dichloroethane-d4 (Surr)	94	70 - 130
Toluene-d8 (Surr)	99	70 - 130

Method Blank TICs- Batch: 490-392689

Cas Number	Analyte	RT	Est. Result (mg	Qual
91-57-6	2-Methylnaphthalene	12.59	0.002091	J

Client: Roux Associates, Inc. Job Number: 490-117346-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-392689

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-392689/3	Analysis Batch:	490-392689	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120816-03.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/08/2016 1123	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-392689/4	Analysis Batch:	490-392689	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120816-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/08/2016 1154	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	77	93	45 - 145	19	38		
Benzene	98	110	70 - 130	12	37		
Bromobenzene	89	100	67 - 130	11	40		
Bromochloromethane	103	106	70 - 133	3	15		
Bromodichloromethane	100	104	70 - 130	4	20		
Bromoform	103	105	59 - 137	2	17		
Bromomethane	85	104	32 - 150	19	45		
2-Butanone (MEK)	94	107	50 - 149	13	39		
Carbon disulfide	93	110	66 - 138	17	41		
Carbon tetrachloride	102	119	70 - 131	16	41		
Chlorobenzene	101	114	70 - 130	12	40		
Chloroethane	86	103	37 - 150	18	50		
Chloroform	96	106	70 - 130	10	15		
Chloromethane	74	88	53 - 150	17	47		
cis-1,2-Dichloroethene	101	111	70 - 132	10	18		
cis-1,3-Dichloropropene	95	103	70 - 130	8	42		
Dibromochloromethane	101	103	70 - 130	2	14		
1,2-Dibromo-3-chloropropane	98	110	47 - 144	12	38		
1,2-Dibromoethane	99	101	69 - 130	2	17		
1,2-Dichlorobenzene	104	114	70 - 134	10	40		
1,3-Dichlorobenzene	105	121	69 - 137	15	41		
1,4-Dichlorobenzene	105	119	66 - 134	12	41		
Dichlorodifluoromethane	100	121	32 - 150	19	50		
1,1-Dichloroethane	91	106	70 - 130	14	42		
1,2-Dichloroethane	97	99	65 - 134	2	16		
1,1-Dichloroethene	98	118	70 - 131	19	43		
1,2-Dichloropropane	91	98	70 - 130	8	15		
1,3-Dichloropropane	92	96	70 - 130	4	15		
2,2-Dichloropropane	106	122	57 - 150	14	42		
1,1-Dichloropropene	96	110	70 - 130	14	41		
Ethylbenzene	100	116	70 - 130	15	38		
Hexachlorobutadiene	90	108	64 - 137	18	44		
2-Hexanone	92	103	47 - 148	11	38		
Isopropylbenzene	103	120	70 - 130	15	39		
Methylene bromide	97	97	70 - 130	0	19		

Client: Roux Associates, Inc. Job Number: 490-117346-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-392689

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-392689/3	Analysis Batch:	490-392689	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120816-03.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/08/2016 1123	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-392689/4	Analysis Batch:	490-392689	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120816-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/08/2016 1154	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	95	103	69 - 130	8	19		
4-Methyl-2-pentanone (MIBK)	91	98	48 - 150	7	41		
Methyl tert butyl ether	107	107	54 - 145	1	36		
m,p-Xylene	101	118	70 - 130	15	38		
Naphthalene	106	109	55 - 149	4	37		
n-Butylbenzene	97	115	57 - 150	17	39		
N-Propylbenzene	95	115	62 - 150	20	38		
o-Chlorotoluene	98	117	70 - 132	17	41		
o-Xylene	101	115	70 - 130	13	38		
p-Chlorotoluene	95	114	67 - 135	18	41		
p-Isopropyltoluene	99	118	66 - 147	17	38		
sec-Butylbenzene	96	118	68 - 147	20	38		
Styrene	105	116	70 - 131	10	40		
tert-Butylbenzene	91	113	70 - 138	21	38		
1,1,1,2-Tetrachloroethane	102	113	70 - 130	10	41		
1,1,2,2-Tetrachloroethane	88	92	61 - 134	4	16		
Tetrachloroethene	104	124	70 - 130	18	41		
Toluene	95	110	70 - 130	15	40		
trans-1,2-Dichloroethene	92	107	70 - 130	15	41		
trans-1,3-Dichloropropene	98	102	67 - 130	5	41		
1,2,3-Trichlorobenzene	108	118	57 - 146	9	42		
1,2,4-Trichlorobenzene	108	115	47 - 150	6	43		
1,1,1-Trichloroethane	100	118	70 - 130	16	41		
1,1,2-Trichloroethane	91	92	70 - 130	1	17		
Trichloroethene	101	115	70 - 130	12	41		
Trichlorofluoromethane	102	117	53 - 150	14	49		
1,2,3-Trichloropropane	89	97	60 - 139	9	16		
1,2,4-Trimethylbenzene	94	116	70 - 140	21	38		
1,3,5-Trimethylbenzene	101	123	69 - 141	20	38		
Vinyl acetate	153	142	10 - 150	7	50	*	
Vinyl chloride	89	105	63 - 150	16	46		
Xylenes (total)	101	116	70 - 130	14	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	88	89	70 - 130
Dibromofluoromethane (Surr)	97	93	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99	93	70 - 130
Toluene-d8 (Surr)	96	98	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Method Blank - Batch: 490-392855

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-392855/7	Analysis Batch:	490-392855	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	12081620.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/08/2016 1856	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	2.00	U	2.00	2.50
Benzene	0.0340	U	0.0340	0.100
Bromobenzene	0.0360	U	0.0360	0.100
Bromochloromethane	0.0280	U	0.0280	0.100
Bromodichloromethane	0.0280	U	0.0280	0.100
Bromoform	0.0280	U	0.0280	0.100
Bromomethane	0.0600	U	0.0600	0.100
2-Butanone (MEK)	0.260	U	0.260	2.50
Carbon disulfide	0.180	U	0.180	0.250
Carbon tetrachloride	0.0340	U	0.0340	0.100
Chlorobenzene	0.0340	U	0.0340	0.100
Chloroethane	0.0950	U	0.0950	0.250
Chloroform	0.0340	U	0.0340	0.100
Chloromethane	0.0340	U	0.0340	0.100
cis-1,2-Dichloroethene	0.0340	U	0.0340	0.100
cis-1,3-Dichloropropene	0.0340	U	0.0340	0.100
Dibromochloromethane	0.0170	U	0.0170	0.100
1,2-Dibromo-3-chloropropane	0.0350	U	0.0350	0.250
1,2-Dibromoethane	0.0500	U	0.0500	0.100
1,2-Dichlorobenzene	0.0170	U	0.0170	0.100
1,3-Dichlorobenzene	0.0340	U	0.0340	0.100
1,4-Dichlorobenzene	0.0470	U	0.0470	0.100
Dichlorodifluoromethane	0.0500	U	0.0500	0.100
1,1-Dichloroethane	0.0340	U	0.0340	0.100
1,2-Dichloroethane	0.0340	U	0.0340	0.100
1,1-Dichloroethene	0.0290	U	0.0290	0.100
1,2-Dichloropropane	0.0470	U	0.0470	0.100
1,3-Dichloropropane	0.0470	U	0.0470	0.100
2,2-Dichloropropane	0.0340	U	0.0340	0.100
1,1-Dichloropropene	0.0260	U	0.0260	0.100
Ethylbenzene	0.0340	U	0.0340	0.100
Hexachlorobutadiene	0.0550	U	0.0550	0.250
2-Hexanone	0.840	U	0.840	2.50
Iodomethane	0.340	U	0.340	1.00
Isopropylbenzene	0.0210	U	0.0210	0.100
Methylene bromide	0.0280	U	0.0280	0.100
Methylene Chloride	0.0500	U	0.0500	0.500
4-Methyl-2-pentanone (MIBK)	0.850	U	0.850	2.50
Methyl tert butyl ether	0.0500	U	0.0500	0.100
m,p-Xylene	0.0280	U	0.0280	0.150
Naphthalene	0.0850	U	0.0850	0.250
n-Butylbenzene	0.0500	U	0.0500	0.100
N-Propylbenzene	0.0340	U	0.0340	0.100
o-Chlorotoluene	0.0460	U	0.0460	0.100
o-Xylene	0.0340	U	0.0340	0.100

Client: Roux Associates, Inc. Job Number: 490-117346-1

Method Blank - Batch: 490-392855

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-392855/7	Analysis Batch:	490-392855	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	12081620.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/08/2016 1856	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.0420	U	0.0420	0.100
p-Isopropyltoluene	0.0340	U	0.0340	0.100
sec-Butylbenzene	0.0340	U	0.0340	0.100
Styrene	0.0550	U	0.0550	0.100
tert-Butylbenzene	0.0500	U	0.0500	0.100
1,1,1,2-Tetrachloroethane	0.0340	U	0.0340	0.100
1,1,2,2-Tetrachloroethane	0.0500	U	0.0500	0.100
Tetrachloroethene	0.0340	U	0.0340	0.100
Toluene	0.0370	U	0.0370	0.100
trans-1,2-Dichloroethene	0.0340	U	0.0340	0.100
trans-1,3-Dichloropropene	0.0340	U	0.0340	0.100
1,2,3-Trichlorobenzene	0.0190	U	0.0190	0.100
1,2,4-Trichlorobenzene	0.0340	U	0.0340	0.100
1,1,1-Trichloroethane	0.0460	U	0.0460	0.100
1,1,2-Trichloroethane	0.0700	U	0.0700	0.250
Trichloroethene	0.0500	U	0.0500	0.100
Trichlorofluoromethane	0.0500	U	0.0500	0.100
1,2,3-Trichloropropane	0.0280	U	0.0280	0.100
1,2,4-Trimethylbenzene	0.0500	U	0.0500	0.100
1,3,5-Trimethylbenzene	0.0380	U	0.0380	0.100
Vinyl acetate	0.220	U	0.220	1.00
Vinyl chloride	0.0550	U	0.0550	0.100
Xylenes (total)	0.0620	U	0.0620	0.150

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	89	70 - 130
Dibromofluoromethane (Surr)	99	70 - 130
1,2-Dichloroethane-d4 (Surr)	101	70 - 130
Toluene-d8 (Surr)	98	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-392855

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-392855/3	Analysis Batch:	490-392855	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	12081616.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/08/2016 1706	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-392855/4	Analysis Batch:	490-392855	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	12081617.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/08/2016 1733	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	106	105	45 - 145	2	38		
Benzene	92	91	70 - 130	1	37		
Bromobenzene	81	79	67 - 130	1	40		
Bromochloromethane	92	91	70 - 133	1	15		
Bromodichloromethane	86	85	70 - 130	0	20		
Bromoform	89	87	59 - 137	2	17		
Bromomethane	63	67	32 - 150	6	45		
2-Butanone (MEK)	99	99	50 - 149	0	39		
Carbon disulfide	90	90	66 - 138	1	41		
Carbon tetrachloride	89	89	70 - 131	0	41		
Chlorobenzene	89	89	70 - 130	1	40		
Chloroethane	73	80	37 - 150	8	50		
Chloroform	87	87	70 - 130	0	15		
Chloromethane	95	95	53 - 150	1	47		
cis-1,2-Dichloroethene	90	91	70 - 132	1	18		
cis-1,3-Dichloropropene	84	84	70 - 130	0	42		
Dibromochloromethane	87	88	70 - 130	0	14		
1,2-Dibromo-3-chloropropane	89	87	47 - 144	2	38		
1,2-Dibromoethane	87	88	69 - 130	1	17		
1,2-Dichlorobenzene	88	88	70 - 134	0	40		
1,3-Dichlorobenzene	89	88	69 - 137	1	41		
1,4-Dichlorobenzene	89	88	66 - 134	1	41		
Dichlorodifluoromethane	100	101	32 - 150	2	50		
1,1-Dichloroethane	88	88	70 - 130	0	42		
1,2-Dichloroethane	83	84	65 - 134	0	16		
1,1-Dichloroethene	87	89	70 - 131	2	43		
1,2-Dichloropropane	88	87	70 - 130	1	15		
1,3-Dichloropropane	86	85	70 - 130	2	15		
2,2-Dichloropropane	87	89	57 - 150	2	42		
1,1-Dichloropropene	88	88	70 - 130	1	41		
Ethylbenzene	88	88	70 - 130	0	38		
Hexachlorobutadiene	93	91	64 - 137	1	44		
2-Hexanone	93	91	47 - 148	2	38		
Isopropylbenzene	87	89	70 - 130	2	39		
Methylene bromide	89	87	70 - 130	2	19		

Client: Roux Associates, Inc. Job Number: 490-117346-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-392855

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-392855/3	Analysis Batch:	490-392855	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	12081616.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/08/2016 1706	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-392855/4	Analysis Batch:	490-392855	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	12081617.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/08/2016 1733	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	88	89	69 - 130	1	19		
4-Methyl-2-pentanone (MIBK)	92	91	48 - 150	1	41		
Methyl tert butyl ether	90	89	54 - 145	0	36		
m,p-Xylene	86	85	70 - 130	1	38		
Naphthalene	89	87	55 - 149	2	37		
n-Butylbenzene	89	89	57 - 150	0	39		
N-Propylbenzene	81	81	62 - 150	1	38		
o-Chlorotoluene	84	83	70 - 132	2	41		
o-Xylene	86	87	70 - 130	1	38		
p-Chlorotoluene	84	83	67 - 135	1	41		
p-Isopropyltoluene	87	87	66 - 147	0	38		
sec-Butylbenzene	86	86	68 - 147	0	38		
Styrene	87	87	70 - 131	0	40		
tert-Butylbenzene	85	85	70 - 138	0	38		
1,1,1,2-Tetrachloroethane	85	88	70 - 130	3	41		
1,1,2,2-Tetrachloroethane	84	82	61 - 134	3	16		
Tetrachloroethene	89	90	70 - 130	2	41		
Toluene	89	89	70 - 130	0	40		
trans-1,2-Dichloroethene	88	87	70 - 130	1	41		
trans-1,3-Dichloropropene	84	83	67 - 130	1	41		
1,2,3-Trichlorobenzene	92	91	57 - 146	2	42		
1,2,4-Trichlorobenzene	87	88	47 - 150	0	43		
1,1,1-Trichloroethane	87	87	70 - 130	0	41		
1,1,2-Trichloroethane	87	87	70 - 130	1	17		
Trichloroethene	92	92	70 - 130	0	41		
Trichlorofluoromethane	68	73	53 - 150	7	49		
1,2,3-Trichloropropane	83	81	60 - 139	2	16		
1,2,4-Trimethylbenzene	86	85	70 - 140	1	38		
1,3,5-Trimethylbenzene	84	85	69 - 141	0	38		
Vinyl acetate	112	105	10 - 150	7	50		
Vinyl chloride	92	93	63 - 150	1	46		
Xylenes (total)	86	86	70 - 130	0	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	91	90	70 - 130
Dibromofluoromethane (Surr)	101	101	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95	97	70 - 130
Toluene-d8 (Surr)	98	98	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Method Blank - Batch: 490-393067

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-393067/7	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120916-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/09/2016 1253	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	0.00840	U	0.00840	0.0500
Benzene	0.000670	U	0.000670	0.00200
Bromobenzene	0.000720	U	0.000720	0.00200
Bromochloromethane	0.000550	U	0.000550	0.00200
Bromodichloromethane	0.000550	U	0.000550	0.00200
Bromoform	0.000550	U	0.000550	0.00200
Bromomethane	0.00120	U	0.00120	0.00200
2-Butanone (MEK)	0.00510	U	0.00510	0.0500
Carbon disulfide	0.00360	U	0.00360	0.00500
Carbon tetrachloride	0.000670	U	0.000670	0.00200
Chlorobenzene	0.000670	U	0.000670	0.00200
Chloroethane	0.00190	U	0.00190	0.00500
Chloroform	0.000670	U	0.000670	0.00200
Chloromethane	0.000670	U	0.000670	0.00200
cis-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
cis-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
Dibromochloromethane	0.000340	U	0.000340	0.00200
1,2-Dibromo-3-chloropropane	0.000700	U	0.000700	0.00500
1,2-Dibromoethane	0.00100	U	0.00100	0.00200
1,2-Dichlorobenzene	0.000340	U	0.000340	0.00200
1,3-Dichlorobenzene	0.000670	U	0.000670	0.00200
1,4-Dichlorobenzene	0.000670	U	0.000670	0.00200
Dichlorodifluoromethane	0.00100	U	0.00100	0.00200
1,1-Dichloroethane	0.000670	U	0.000670	0.00200
1,2-Dichloroethane	0.000670	U	0.000670	0.00200
1,1-Dichloroethene	0.000570	U	0.000570	0.00200
1,2-Dichloropropane	0.000940	U	0.000940	0.00200
1,3-Dichloropropane	0.000940	U	0.000940	0.00200
2,2-Dichloropropane	0.000670	U	0.000670	0.00200
1,1-Dichloropropene	0.000510	U	0.000510	0.00200
Ethylbenzene	0.000670	U	0.000670	0.00200
Hexachlorobutadiene	0.00114	U	0.00114	0.00500
2-Hexanone	0.0167	U	0.0167	0.0500
Iodomethane	0.00670	U	0.00670	0.0200
Isopropylbenzene	0.000410	U	0.000410	0.00200
Methylene bromide	0.000560	U	0.000560	0.00200
Methylene Chloride	0.000860	U	0.000860	0.0100
4-Methyl-2-pentanone (MIBK)	0.00190	U	0.00190	0.0500
Methyl tert butyl ether	0.000960	U	0.000960	0.00200
m,p-Xylene	0.000560	U	0.000560	0.00400
Naphthalene	0.00170	U	0.00170	0.00500
n-Butylbenzene	0.000980	U	0.000980	0.00200
N-Propylbenzene	0.000670	U	0.000670	0.00200
o-Chlorotoluene	0.000890	U	0.000890	0.00200
o-Xylene	0.000670	U	0.000670	0.00200

Client: Roux Associates, Inc. Job Number: 490-117346-1

Method Blank - Batch: 490-393067

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-393067/7	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120916-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/09/2016 1253	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.000840	U	0.000840	0.00200
p-Isopropyltoluene	0.000670	U	0.000670	0.00200
sec-Butylbenzene	0.000670	U	0.000670	0.00200
Styrene	0.00110	U	0.00110	0.00200
tert-Butylbenzene	0.000900	U	0.000900	0.00200
1,1,1,2-Tetrachloroethane	0.000670	U	0.000670	0.00200
1,1,2,2-Tetrachloroethane	0.00100	U	0.00100	0.00200
Tetrachloroethene	0.000730	U	0.000730	0.00200
Toluene	0.000740	U	0.000740	0.00200
trans-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
trans-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
1,2,3-Trichlorobenzene	0.000380	U	0.000380	0.00200
1,2,4-Trichlorobenzene	0.000670	U	0.000670	0.00200
1,1,1-Trichloroethane	0.000920	U	0.000920	0.00200
1,1,2-Trichloroethane	0.00140	U	0.00140	0.00500
Trichloroethene	0.000960	U	0.000960	0.00200
Trichlorofluoromethane	0.00100	U	0.00100	0.00200
1,2,3-Trichloropropane	0.000550	U	0.000550	0.00200
1,2,4-Trimethylbenzene	0.00100	U	0.00100	0.00200
1,3,5-Trimethylbenzene	0.000750	U	0.000750	0.00200
Vinyl acetate	0.00440	U	0.00440	0.0200
Vinyl chloride	0.00110	U	0.00110	0.00200
Xylenes (total)	0.00123	U	0.00123	0.00600

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	90	70 - 130
Dibromofluoromethane (Surr)	98	70 - 130
1,2-Dichloroethane-d4 (Surr)	98	70 - 130
Toluene-d8 (Surr)	94	70 - 130

Method Blank TICs- Batch: 490-393067

Cas Number	Analyte	RT	Est. Result (mg	Qual
91-57-6	2-Methylnaphthalene	12.60	0.001745	J

Client: Roux Associates, Inc. Job Number: 490-117346-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-393067

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-393067/4	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120916-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/09/2016 1121	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-393067/5	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120916-05.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/09/2016 1152	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	76	80	45 - 145	4	38		
Benzene	96	101	70 - 130	5	37		
Bromobenzene	87	90	67 - 130	4	40		
Bromochloromethane	102	104	70 - 133	2	15		
Bromodichloromethane	98	98	70 - 130	0	20		
Bromoform	101	100	59 - 137	1	17		
Bromomethane	91	100	32 - 150	9	45		
2-Butanone (MEK)	91	95	50 - 149	3	39		
Carbon disulfide	88	96	66 - 138	10	41		
Carbon tetrachloride	101	107	70 - 131	6	41		
Chlorobenzene	99	104	70 - 130	5	40		
Chloroethane	85	89	37 - 150	5	50		
Chloroform	93	97	70 - 130	4	15		
Chloromethane	67	76	53 - 150	12	47		
cis-1,2-Dichloroethene	99	103	70 - 132	4	18		
cis-1,3-Dichloropropene	93	94	70 - 130	1	42		
Dibromochloromethane	96	99	70 - 130	3	14		
1,2-Dibromo-3-chloropropane	95	100	47 - 144	6	38		
1,2-Dibromoethane	96	95	69 - 130	1	17		
1,2-Dichlorobenzene	103	106	70 - 134	3	40		
1,3-Dichlorobenzene	108	111	69 - 137	3	41		
1,4-Dichlorobenzene	104	108	66 - 134	4	41		
Dichlorodifluoromethane	101	109	32 - 150	7	50		
1,1-Dichloroethane	90	94	70 - 130	4	42		
1,2-Dichloroethane	95	93	65 - 134	2	16		
1,1-Dichloroethene	95	101	70 - 131	6	43		
1,2-Dichloropropane	88	90	70 - 130	2	15		
1,3-Dichloropropane	89	89	70 - 130	0	15		
2,2-Dichloropropane	105	111	57 - 150	5	42		
1,1-Dichloropropene	95	99	70 - 130	4	41		
Ethylbenzene	98	104	70 - 130	6	38		
Hexachlorobutadiene	91	98	64 - 137	7	44		
2-Hexanone	90	91	47 - 148	1	38		
Isopropylbenzene	102	109	70 - 130	6	39		
Methylene bromide	96	92	70 - 130	5	19		

Client: Roux Associates, Inc. Job Number: 490-117346-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-393067

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-393067/4	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120916-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/09/2016 1121	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-393067/5	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120916-05.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/09/2016 1152	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	92	93	69 - 130	2	19		
4-Methyl-2-pentanone (MIBK)	89	88	48 - 150	1	41		
Methyl tert butyl ether	106	102	54 - 145	4	36		
m,p-Xylene	99	105	70 - 130	6	38		
Naphthalene	106	101	55 - 149	5	37		
n-Butylbenzene	98	104	57 - 150	5	39		
N-Propylbenzene	95	103	62 - 150	8	38		
o-Chlorotoluene	95	102	70 - 132	7	41		
o-Xylene	100	105	70 - 130	5	38		
p-Chlorotoluene	96	101	67 - 135	6	41		
p-Isopropyltoluene	102	110	66 - 147	7	38		
sec-Butylbenzene	99	106	68 - 147	7	38		
Styrene	103	108	70 - 131	5	40		
tert-Butylbenzene	96	101	70 - 138	5	38		
1,1,1,2-Tetrachloroethane	101	105	70 - 130	4	41		
1,1,2,2-Tetrachloroethane	83	86	61 - 134	3	16		
Tetrachloroethene	104	112	70 - 130	7	41		
Toluene	94	100	70 - 130	6	40		
trans-1,2-Dichloroethene	89	93	70 - 130	5	41		
trans-1,3-Dichloropropene	95	95	67 - 130	0	41		
1,2,3-Trichlorobenzene	111	109	57 - 146	1	42		
1,2,4-Trichlorobenzene	110	109	47 - 150	1	43		
1,1,1-Trichloroethane	100	105	70 - 130	5	41		
1,1,2-Trichloroethane	86	86	70 - 130	0	17		
Trichloroethene	101	106	70 - 130	5	41		
Trichlorofluoromethane	99	103	53 - 150	4	49		
1,2,3-Trichloropropane	84	87	60 - 139	3	16		
1,2,4-Trimethylbenzene	101	106	70 - 140	5	38		
1,3,5-Trimethylbenzene	100	104	69 - 141	4	38		
Vinyl acetate	156	141	10 - 150	11	50	*	
Vinyl chloride	85	91	63 - 150	7	46		
Xylenes (total)	99	105	70 - 130	5	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	84	84	70 - 130
Dibromofluoromethane (Surr)	96	93	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99	90	70 - 130
Toluene-d8 (Surr)	96	98	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-393278

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-4	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-393278	Lab File ID:	120916-20.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.52 g
Analysis Date:	12/09/2016 1932			Final Weight/Volume:	5.0 mL
Prep Date:	12/09/2016 1655				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-4	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-393278	Lab File ID:	120916-21.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.07 g
Analysis Date:	12/09/2016 2002			Final Weight/Volume:	5.0 mL
Prep Date:	12/09/2016 1655				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	35	45	10 - 150	9	50		
Benzene	113	106	21 - 150	2	50		
Bromobenzene	213	206	10 - 150	6	50	*	*
Bromochloromethane	111	107	10 - 150	5	50		
Bromodichloromethane	702	343	10 - 150	61	50	*	*
Bromoform	92	96	10 - 150	12	50		
Bromomethane	95	79	10 - 150	11	50		
2-Butanone (MEK)	90	78	10 - 150	5	50		
Carbon disulfide	66	69	10 - 150	9	50		
Carbon tetrachloride	88	91	10 - 150	12	50		
Chlorobenzene	102	103	10 - 150	9	50		
Chloroethane	85	137	10 - 150	55	50		*
Chloroform	202	135	10 - 150	32	50	*	
Chloromethane	75	74	10 - 150	7	50		
cis-1,2-Dichloroethene	108	107	10 - 150	7	50		
cis-1,3-Dichloropropene	135	128	10 - 150	3	50		
Dibromochloromethane	237	174	10 - 150	23	50	*	*
1,2-Dibromo-3-chloropropane	109	127	10 - 150	23	50	*	*
1,2-Dibromoethane	117	116	10 - 150	8	50		
1,2-Dichlorobenzene	69	85	10 - 150	29	50	*	*
1,3-Dichlorobenzene	71	87	10 - 150	29	50	*	*
1,4-Dichlorobenzene	72	87	10 - 150	27	50	*	*
Dichlorodifluoromethane	117	114	10 - 150	7	50		
1,1-Dichloroethane	102	99	10 - 150	5	50		
1,2-Dichloroethane	142	114	24 - 138	13	50	*	
1,1-Dichloroethene	109	106	10 - 150	6	50		
1,2-Dichloropropane	258	227	10 - 150	5	50	*	*
1,3-Dichloropropane	123	119	10 - 150	5	50		
2,2-Dichloropropane	115	116	10 - 150	9	50		
1,1-Dichloropropene	89	97	10 - 150	17	50		
Ethylbenzene	85	82	10 - 150	4	50		
Hexachlorobutadiene	13	16	10 - 150	31	50	*	*

Client: Roux Associates, Inc. Job Number: 490-117346-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-393278

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-4	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-393278	Lab File ID:	120916-20.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.52 g
Analysis Date:	12/09/2016 1932			Final Weight/Volume:	5.0 mL
Prep Date:	12/09/2016 1655				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-4	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-393278	Lab File ID:	120916-21.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.07 g
Analysis Date:	12/09/2016 2002			Final Weight/Volume:	5.0 mL
Prep Date:	12/09/2016 1655				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2-Hexanone	173	145	10 - 150	9	50	*	
Isopropylbenzene	67	14	10 - 150	21	50		
Methylene bromide	98	93	10 - 150	4	50		
Methylene Chloride	101	152	24 - 150	49	50		*
4-Methyl-2-pentanone (MIBK)	144	148	10 - 150	11	50		
Methyl tert butyl ether	105	114	10 - 150	16	50		
m,p-Xylene	79	59	10 - 150	9	50		
Naphthalene	39	50	10 - 150	14	50	*	*
n-Butylbenzene	56	50	10 - 150	1	50	*	*
N-Propylbenzene	140	88	10 - 150	8	50	*	*
o-Chlorotoluene	114	121	10 - 150	15	50	*	*
o-Xylene	75	62	10 - 150	6	50		
p-Chlorotoluene	139	146	10 - 150	13	50	*	*
p-Isopropyltoluene	44	53	10 - 150	26	50	*	*
sec-Butylbenzene	62	52	10 - 150	3	50	*	*
Styrene	83	86	10 - 150	13	50		
tert-Butylbenzene	55	61	10 - 150	12	50	*	*
1,1,1,2-Tetrachloroethane	98	101	10 - 150	11	50		
1,1,2,2-Tetrachloroethane	1657	1222	10 - 150	22	50	E *	E *
Tetrachloroethene	66	72	10 - 150	18	50		
Toluene	141	139	17 - 150	6	50		
trans-1,2-Dichloroethene	97	100	10 - 150	12	50		
trans-1,3-Dichloropropene	128	123	10 - 150	5	50		
1,2,3-Trichlorobenzene	0	0	10 - 150	NC	50	U *	U *
1,2,4-Trichlorobenzene	0	0	10 - 150	NC	50	U *	U *
1,1,1-Trichloroethane	103	102	10 - 150	7	50		
1,1,2-Trichloroethane	11847	8101	10 - 150	29	50	E *	E *
Trichloroethene	94	97	10 - 150	11	50		
Trichlorofluoromethane	108	107	10 - 150	7	50		
1,2,3-Trichloropropane	553	478	10 - 150	6	50	*	*
1,2,4-Trimethylbenzene	80	88	10 - 150	10	50	*	*
1,3,5-Trimethylbenzene	134	102	10 - 150	6	50	*	*

Client: Roux Associates, Inc. Job Number: 490-117346-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-393278

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-4	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-393278	Lab File ID:	120916-20.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.52 g
Analysis Date:	12/09/2016 1932			Final Weight/Volume:	5.0 mL
Prep Date:	12/09/2016 1655				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-4	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-393278	Lab File ID:	120916-21.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.07 g
Analysis Date:	12/09/2016 2002			Final Weight/Volume:	5.0 mL
Prep Date:	12/09/2016 1655				5 mL
Leach Date:	N/A				

	% Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Vinyl acetate	183	164	10 - 150	3	50	*	*
Vinyl chloride	101	97	10 - 150	4	50		
Xylenes (total)	77	60	10 - 150	8	50		

Surrogate	MS % Rec		MSD % Rec		Acceptance Limits
4-Bromofluorobenzene (Surr)	569	*	195	*	70 - 130
Dibromofluoromethane (Surr)	106		101		70 - 130
1,2-Dichloroethane-d4 (Surr)	111		102		70 - 130
Toluene-d8 (Surr)	723	*	962	*	70 - 130

Method Blank - Batch: 490-392458

Method: 8270D
Preparation: 3550C

Lab Sample ID:	MB 490-392458/1-A	Analysis Batch:	490-392957	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392458	Lab File ID:	120816-033.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/09/2016 0336	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/07/2016 1213			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	0.0320	U	0.0320	0.0670
Acenaphthylene	0.0290	U	0.0290	0.0670
Aniline	0.253	U	0.253	0.670
Anthracene	0.0290	U	0.0290	0.0670
Benzidine	0.204	U	0.204	0.333
Benzo(a)anthracene	0.0300	U	0.0300	0.0670
Benzo(a)pyrene	0.0270	U	0.0270	0.0670
Benzo(b)fluoranthene	0.0280	U	0.0280	0.0670
Benzo(g,h,i)perylene	0.0330	U	0.0330	0.0670
Benzoic acid	0.0600	U	0.0600	0.333
Benzo(k)fluoranthene	0.0270	U	0.0270	0.0670
Benzyl alcohol	0.194	U	0.194	0.333
Bis(2-chloroethoxy)methane	0.200	U	0.200	0.333
Bis(2-chloroethyl)ether	0.213	U	0.213	0.333
bis (2-chloroisopropyl) ether	0.198	U	0.198	0.333
Bis(2-ethylhexyl)phthalate	0.207	U	0.207	0.333
4-Bromophenyl phenyl ether	0.205	U	0.205	0.333
Butyl benzyl phthalate	0.215	U	0.215	0.333
Carbazole	0.207	U	0.207	0.333
4-Chloroaniline	0.227	U	0.227	0.333
4-Chloro-3-methylphenol	0.168	U	0.168	0.333
2-Chloronaphthalene	0.209	U	0.209	0.333
2-Chlorophenol	0.191	U	0.191	0.333
4-Chlorophenyl phenyl ether	0.201	U	0.201	0.333
Chrysene	0.0370	U	0.0370	0.0670
Dibenzo(a,h)anthracene	0.0320	U	0.0320	0.0670
Dibenzofuran	0.210	U	0.210	0.333
1,2-Dichlorobenzene	0.190	U	0.190	0.333
1,3-Dichlorobenzene	0.190	U	0.190	0.333
1,4-Dichlorobenzene	0.196	U	0.196	0.333
3,3'-Dichlorobenzidine	0.204	U	0.204	0.670
2,4-Dichlorophenol	0.175	U	0.175	0.333
Diethyl phthalate	0.212	U	0.212	0.333
2,4-Dimethylphenol	0.335	U	0.335	0.670
Dimethyl phthalate	0.207	U	0.207	0.333
Di-n-butyl phthalate	0.211	U	0.211	0.333
4,6-Dinitro-o-cresol	0.229	U	0.229	0.333
2,4-Dinitrophenol	0.251	U	0.251	0.333
2,4-Dinitrotoluene	0.208	U	0.208	0.333
2,6-Dinitrotoluene	0.223	U	0.223	0.333
Di-n-octyl phthalate	0.178	U	0.178	0.333
1,2-Diphenylhydrazine (as Azobenzene)	0.234	U	0.234	0.333
Fluoranthene	0.0340	U	0.0340	0.0670
Fluorene	0.0290	U	0.0290	0.0670
Hexachlorobenzene	0.250	U	0.250	0.333

Client: Roux Associates, Inc. Job Number: 490-117346-1

Method Blank - Batch: 490-392458

Method: 8270D
Preparation: 3550C

Lab Sample ID:	MB 490-392458/1-A	Analysis Batch:	490-392957	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392458	Lab File ID:	120816-033.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/09/2016 0336	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/07/2016 1213			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Hexachlorobutadiene	0.167	U	0.167	0.333
Hexachlorocyclopentadiene	0.150	U	0.150	0.333
Hexachloroethane	0.181	U	0.181	0.333
Ideno(1,2,3-cd)pyrene	0.0290	U	0.0290	0.0670
Isophorone	0.188	U	0.188	0.333
1-Methylnaphthalene	0.0280	U	0.0280	0.0670
2-Methylnaphthalene	0.0260	U	0.0260	0.0670
Naphthalene	0.0290	U	0.0290	0.0670
2-Nitroaniline	0.207	U	0.207	0.333
3-Nitroaniline	0.230	U	0.230	0.670
4-Nitroaniline	0.238	U	0.238	0.670
Nitrobenzene	0.201	U	0.201	0.333
2-Nitrophenol	0.243	U	0.243	0.333
4-Nitrophenol	0.382	U	0.382	0.670
N-Nitrosodimethylamine	0.0200	U	0.0200	0.333
N-Nitrosodi-n-propylamine	0.194	U	0.194	0.333
N-Nitrosodiphenylamine	0.0530	U	0.0530	0.333
Pentachlorophenol	0.266	U	0.266	0.670
Phenanthrene	0.0340	U	0.0340	0.0670
Phenol	0.203	U	0.203	0.333
Pyrene	0.0340	U	0.0340	0.0670
Pyridine	0.199	U	0.199	0.670
1,2,4-Trichlorobenzene	0.181	U	0.181	0.333
2,4,5-Trichlorophenol	0.218	U	0.218	0.333
2,4,6-Trichlorophenol	0.192	U	0.192	0.333

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	71	29 - 120
2-Fluorophenol (Surr)	63	10 - 120
Nitrobenzene-d5 (Surr)	74	27 - 120
Phenol-d5 (Surr)	74	10 - 120
Terphenyl-d14 (Surr)	89	13 - 120
2,4,6-Tribromophenol (Surr)	56	10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-1

Lab Control Sample - Batch: 490-392458

Method: 8270D
Preparation: 3550C

Lab Sample ID:	LCS 490-392458/2-A	Analysis Batch:	490-392957	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392458	Lab File ID:	120816-034.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/09/2016 0354	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/07/2016 1213			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	1.67	1.178	71	36 - 120	
Acenaphthylene	1.67	1.143	69	38 - 120	
Aniline	1.67	1.018	61	10 - 150	
Anthracene	1.67	1.193	72	46 - 124	
Benzidine	1.67	0.2421	15	10 - 150	J
Benzo(a)anthracene	1.67	1.194	72	45 - 120	
Benzo(a)pyrene	1.67	1.169	70	45 - 120	
Benzo(b)fluoranthene	1.67	1.143	69	42 - 120	
Benzo(g,h,i)perylene	1.67	1.211	73	38 - 120	
Benzoic acid	1.67	0.5354	32	10 - 150	
Benzo(k)fluoranthene	1.67	1.294	78	42 - 120	
Benzyl alcohol	1.67	1.141	68	43 - 131	
Bis(2-chloroethoxy)methane	1.67	1.039	62	32 - 120	
Bis(2-chloroethyl)ether	1.67	1.052	63	31 - 120	
bis (2-chloroisopropyl) ether	1.67	0.9228	55	32 - 120	
Bis(2-ethylhexyl)phthalate	1.67	1.148	69	43 - 120	
4-Bromophenyl phenyl ether	1.67	1.136	68	40 - 120	
Butyl benzyl phthalate	1.67	1.175	70	43 - 133	
Carbazole	1.67	1.218	73	44 - 120	
4-Chloroaniline	1.67	1.180	71	35 - 120	
4-Chloro-3-methylphenol	1.67	1.290	77	38 - 120	
2-Chloronaphthalene	1.67	1.133	68	34 - 120	
2-Chlorophenol	1.67	1.086	65	32 - 120	
4-Chlorophenyl phenyl ether	1.67	1.211	73	42 - 120	
Chrysene	1.67	1.231	74	43 - 120	
Dibenzo(a,h)anthracene	1.67	1.208	72	32 - 128	
Dibenzofuran	1.67	1.178	71	41 - 120	
1,2-Dichlorobenzene	1.67	1.019	61	33 - 120	
1,3-Dichlorobenzene	1.67	0.9837	59	32 - 120	
1,4-Dichlorobenzene	1.67	0.9850	59	32 - 120	
3,3'-Dichlorobenzidine	1.67	0.9667	58	39 - 120	
2,4-Dichlorophenol	1.67	1.184	71	32 - 120	
Diethyl phthalate	1.67	1.177	71	41 - 122	
2,4-Dimethylphenol	1.67	1.134	68	32 - 120	
Dimethyl phthalate	1.67	1.153	69	55 - 120	
Di-n-butyl phthalate	1.67	1.136	68	46 - 127	
4,6-Dinitro-o-cresol	3.33	1.528	46	27 - 134	
2,4-Dinitrophenol	3.33	1.102	33	10 - 142	
2,4-Dinitrotoluene	1.67	1.276	77	43 - 120	
2,6-Dinitrotoluene	1.67	1.212	73	43 - 120	
Di-n-octyl phthalate	1.67	1.203	72	40 - 130	

Client: Roux Associates, Inc. Job Number: 490-117346-1

Lab Control Sample - Batch: 490-392458

Method: 8270D
Preparation: 3550C

Lab Sample ID:	LCS 490-392458/2-A	Analysis Batch:	490-392957	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392458	Lab File ID:	120816-034.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/09/2016 0354	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/07/2016 1213			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,2-Diphenylhydrazine (as Azobenzene)	1.67	1.198	72	10 - 150	
Fluoranthene	1.67	1.217	73	46 - 120	
Fluorene	1.67	1.200	72	42 - 120	
Hexachlorobenzene	1.67	1.229	74	44 - 120	
Hexachlorobutadiene	1.67	1.008	60	31 - 120	
Hexachlorocyclopentadiene	1.67	0.3971	24	24 - 120	
Hexachloroethane	1.67	0.9685	58	33 - 120	
Ideno(1,2,3-cd)pyrene	1.67	1.163	70	41 - 121	
Isophorone	1.67	1.027	62	33 - 120	
1-Methylnaphthalene	1.67	1.101	66	32 - 120	
2-Methylnaphthalene	1.67	1.092	66	28 - 120	
Naphthalene	1.67	1.021	61	32 - 120	
2-Nitroaniline	1.67	1.261	76	40 - 120	
3-Nitroaniline	1.67	1.258	76	42 - 120	
4-Nitroaniline	1.67	1.251	75	43 - 120	
Nitrobenzene	1.67	1.040	62	26 - 120	
2-Nitrophenol	1.67	1.073	64	29 - 120	
4-Nitrophenol	3.33	2.190	66	32 - 136	
N-Nitrosodimethylamine	1.67	0.8706	52	10 - 150	
N-Nitrosodi-n-propylamine	1.67	1.004	60	35 - 120	
N-Nitrosodiphenylamine	1.42	1.163	82	52 - 140	
Pentachlorophenol	3.33	1.824	55	44 - 134	
Phenanthrene	1.67	1.192	72	45 - 120	
Phenol	1.67	1.145	69	30 - 120	
Pyrene	1.67	1.268	76	43 - 120	
Pyridine	1.67	1.009	61	20 - 120	
1,2,4-Trichlorobenzene	1.67	1.017	61	29 - 120	
2,4,5-Trichlorophenol	1.67	1.330	80	39 - 120	
2,4,6-Trichlorophenol	1.67	1.187	71	39 - 120	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	64	29 - 120
2-Fluorophenol (Surr)	62	10 - 120
Nitrobenzene-d5 (Surr)	60	27 - 120
Phenol-d5 (Surr)	68	10 - 120
Terphenyl-d14 (Surr)	76	13 - 120
2,4,6-Tribromophenol (Surr)	71	10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392458

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-117346-1	Analysis Batch:	490-394282	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-392458	Lab File ID:	120616-25.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.53 g
Analysis Date:	12/14/2016 2053			Final Weight/Volume:	1.00 mL
Prep Date:	12/07/2016 1213			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-1	Analysis Batch:	490-394282	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-392458	Lab File ID:	120616-26.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.97 g
Analysis Date:	12/14/2016 2111			Final Weight/Volume:	1.00 mL
Prep Date:	12/07/2016 1213			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	78	78	19 - 120	1	50		
Acenaphthylene	76	75	25 - 120	3	50		
Aniline	52	51	10 - 200	2	50		
Anthracene	77	77	28 - 125	1	49		
Benzidine	25	31	5 - 200	22	50		
Benzo(a)anthracene	76	78	23 - 120	2	50		
Benzo(a)pyrene	73	74	15 - 128	0	50		
Benzo(b)fluoranthene	74	72	12 - 133	5	50		
Benzo(g,h,i)perylene	84	83	22 - 120	2	50		
Benzoic acid	164	141	10 - 200	17	50		
Benzo(k)fluoranthene	74	81	28 - 120	7	45		
Benzyl alcohol	61	62	10 - 200	0	50		
Bis(2-chloroethoxy)methane	65	63	24 - 120	4	50		
Bis(2-chloroethyl)ether	58	56	22 - 120	5	50		
bis (2-chloroisopropyl) ether	56	55	20 - 120	4	50		
Bis(2-ethylhexyl)phthalate	75	71	26 - 120	6	50		
4-Bromophenyl phenyl ether	78	77	31 - 120	2	37		
Butyl benzyl phthalate	74	73	24 - 133	3	50		
Carbazole	74	73	25 - 123	3	46		
4-Chloroaniline	62	65	26 - 120	4	50		
4-Chloro-3-methylphenol	70	69	21 - 120	3	49		
2-Chloronaphthalene	72	74	24 - 120	0	50		
2-Chlorophenol	60	58	25 - 120	6	50		
4-Chlorophenyl phenyl ether	77	79	26 - 120	1	50		
Chrysene	78	75	20 - 120	6	49		
Dibenzo(a,h)anthracene	80	81	12 - 128	0	50		
Dibenzofuran	78	77	21 - 120	2	50		
1,2-Dichlorobenzene	64	64	10 - 120	1	50		
1,3-Dichlorobenzene	61	59	10 - 120	6	50		
1,4-Dichlorobenzene	62	62	10 - 120	2	50		
3,3'-Dichlorobenzidine	81	81	10 - 120	2	50		
2,4-Dichlorophenol	74	74	17 - 120	2	50		

Client: Roux Associates, Inc. Job Number: 490-117346-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392458

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-117346-1	Analysis Batch:	490-394282	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-392458	Lab File ID:	120616-25.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.53 g
Analysis Date:	12/14/2016 2053			Final Weight/Volume:	1.00 mL
Prep Date:	12/07/2016 1213			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-1	Analysis Batch:	490-394282	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-392458	Lab File ID:	120616-26.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.97 g
Analysis Date:	12/14/2016 2111			Final Weight/Volume:	1.00 mL
Prep Date:	12/07/2016 1213			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Diethyl phthalate	71	71	29 - 122	2	45		
2,4-Dimethylphenol	57	58	17 - 120	1	50		
Dimethyl phthalate	71	71	30 - 120	1	46		
Di-n-butyl phthalate	74	72	29 - 126	4	49		
4,6-Dinitro-o-cresol	0	8	10 - 134	NC	50	U *	J *
2,4-Dinitrophenol	0	8	10 - 150	NC	50	U *	J *
2,4-Dinitrotoluene	77	73	24 - 121	6	50		
2,6-Dinitrotoluene	75	75	24 - 120	2	50		
Di-n-octyl phthalate	74	73	27 - 130	2	50		
1,2-Diphenylhydrazine (as Azobenzene)	66	68	10 - 200	2	50		
Fluoranthene	78	75	10 - 143	5	50		
Fluorene	76	76	20 - 120	2	50		
Hexachlorobenzene	79	80	25 - 120	0	50		
Hexachlorobutadiene	74	73	10 - 120	4	50		
Hexachlorocyclopentadiene	38	38	10 - 120	3	50		
Hexachloroethane	62	66	10 - 120	4	50		
Ideno(1,2,3-cd)pyrene	78	78	22 - 121	2	50		
Isophorone	71	65	24 - 120	9	50		
1-Methylnaphthalene	73	64	10 - 120	11	50		
2-Methylnaphthalene	109	98	13 - 120	13	50		
Naphthalene	73	68	10 - 120	8	50		
2-Nitroaniline	65	64	31 - 120	3	50		
3-Nitroaniline	73	77	31 - 120	3	49		
4-Nitroaniline	70	73	28 - 120	4	49		
Nitrobenzene	63	63	19 - 120	2	50		
2-Nitrophenol	63	63	23 - 120	2	50		
4-Nitrophenol	65	69	16 - 139	4	45		
N-Nitrosodimethylamine	42	44	10 - 200	3	50		
N-Nitrosodi-n-propylamine	65	64	24 - 120	4	50		
N-Nitrosodiphenylamine	103	95	26 - 150	9	50		
Pentachlorophenol	82	77	19 - 145	7	50		
Phenanthrene	75	70	21 - 122	8	50		

Client: Roux Associates, Inc. Job Number: 490-117346-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392458

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-117346-1	Analysis Batch:	490-394282	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-392458	Lab File ID:	120616-25.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.53 g
Analysis Date:	12/14/2016 2053			Final Weight/Volume:	1.00 mL
Prep Date:	12/07/2016 1213			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-1	Analysis Batch:	490-394282	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-392458	Lab File ID:	120616-26.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.97 g
Analysis Date:	12/14/2016 2111			Final Weight/Volume:	1.00 mL
Prep Date:	12/07/2016 1213			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Phenol	59	57	15 - 120	5	50		
Pyrene	78	77	20 - 123	3	50		
Pyridine	47	50	10 - 200	5	50		
1,2,4-Trichlorobenzene	71	72	14 - 120	1	50		
2,4,5-Trichlorophenol	76	81	27 - 120	4	50		
2,4,6-Trichlorophenol	86	84	24 - 122	3	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	74	76	29 - 120
2-Fluorophenol (Surr)	50	50	10 - 120
Nitrobenzene-d5 (Surr)	71	69	27 - 120
Phenol-d5 (Surr)	58	58	10 - 120
Terphenyl-d14 (Surr)	81	82	13 - 120
2,4,6-Tribromophenol (Surr)	85	87	10 - 120

Method Blank - Batch: 490-392789

Method: 8270D
Preparation: 3550C

Lab Sample ID:	MB 490-392789/1-A	Analysis Batch:	490-393758	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	121216-032.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/13/2016 0330	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	0.0320	U	0.0320	0.0670
Acenaphthylene	0.0290	U	0.0290	0.0670
Aniline	0.253	U	0.253	0.670
Anthracene	0.0290	U	0.0290	0.0670
Benzidine	0.204	U	0.204	0.333
Benzo(a)anthracene	0.0300	U	0.0300	0.0670
Benzo(a)pyrene	0.0270	U	0.0270	0.0670
Benzo(b)fluoranthene	0.0280	U	0.0280	0.0670
Benzo(g,h,i)perylene	0.0330	U	0.0330	0.0670
Benzoic acid	0.0600	U	0.0600	0.333
Benzo(k)fluoranthene	0.0270	U	0.0270	0.0670
Benzyl alcohol	0.194	U	0.194	0.333
Bis(2-chloroethoxy)methane	0.200	U	0.200	0.333
Bis(2-chloroethyl)ether	0.213	U	0.213	0.333
bis (2-chloroisopropyl) ether	0.198	U	0.198	0.333
Bis(2-ethylhexyl)phthalate	0.207	U	0.207	0.333
4-Bromophenyl phenyl ether	0.205	U	0.205	0.333
Butyl benzyl phthalate	0.215	U	0.215	0.333
Carbazole	0.207	U	0.207	0.333
4-Chloroaniline	0.227	U	0.227	0.333
4-Chloro-3-methylphenol	0.168	U	0.168	0.333
2-Chloronaphthalene	0.209	U	0.209	0.333
2-Chlorophenol	0.191	U	0.191	0.333
4-Chlorophenyl phenyl ether	0.201	U	0.201	0.333
Chrysene	0.0370	U	0.0370	0.0670
Dibenzo(a,h)anthracene	0.0320	U	0.0320	0.0670
Dibenzofuran	0.210	U	0.210	0.333
1,2-Dichlorobenzene	0.190	U	0.190	0.333
1,3-Dichlorobenzene	0.190	U	0.190	0.333
1,4-Dichlorobenzene	0.196	U	0.196	0.333
3,3'-Dichlorobenzidine	0.204	U	0.204	0.670
2,4-Dichlorophenol	0.175	U	0.175	0.333
Diethyl phthalate	0.212	U	0.212	0.333
2,4-Dimethylphenol	0.335	U	0.335	0.670
Dimethyl phthalate	0.207	U	0.207	0.333
Di-n-butyl phthalate	0.211	U	0.211	0.333
4,6-Dinitro-o-cresol	0.229	U	0.229	0.333
2,4-Dinitrophenol	0.251	U	0.251	0.333
2,4-Dinitrotoluene	0.208	U	0.208	0.333
2,6-Dinitrotoluene	0.223	U	0.223	0.333
Di-n-octyl phthalate	0.178	U	0.178	0.333
1,2-Diphenylhydrazine (as Azobenzene)	0.234	U	0.234	0.333
Fluoranthene	0.0340	U	0.0340	0.0670
Fluorene	0.0290	U	0.0290	0.0670
Hexachlorobenzene	0.250	U	0.250	0.333

Client: Roux Associates, Inc. Job Number: 490-117346-1

Method Blank - Batch: 490-392789

Method: 8270D
Preparation: 3550C

Lab Sample ID:	MB 490-392789/1-A	Analysis Batch:	490-393758	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	121216-032.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/13/2016 0330	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Hexachlorobutadiene	0.167	U	0.167	0.333
Hexachlorocyclopentadiene	0.150	U	0.150	0.333
Hexachloroethane	0.181	U	0.181	0.333
Ideno(1,2,3-cd)pyrene	0.0290	U	0.0290	0.0670
Isophorone	0.188	U	0.188	0.333
1-Methylnaphthalene	0.0280	U	0.0280	0.0670
2-Methylnaphthalene	0.0260	U	0.0260	0.0670
Naphthalene	0.0290	U	0.0290	0.0670
2-Nitroaniline	0.207	U	0.207	0.333
3-Nitroaniline	0.230	U	0.230	0.670
4-Nitroaniline	0.238	U	0.238	0.670
Nitrobenzene	0.201	U	0.201	0.333
2-Nitrophenol	0.243	U	0.243	0.333
4-Nitrophenol	0.382	U	0.382	0.670
N-Nitrosodimethylamine	0.0200	U	0.0200	0.333
N-Nitrosodi-n-propylamine	0.194	U	0.194	0.333
N-Nitrosodiphenylamine	0.0530	U	0.0530	0.333
Pentachlorophenol	0.266	U	0.266	0.670
Phenanthrene	0.0340	U	0.0340	0.0670
Phenol	0.203	U	0.203	0.333
Pyrene	0.0340	U	0.0340	0.0670
Pyridine	0.199	U	0.199	0.670
1,2,4-Trichlorobenzene	0.181	U	0.181	0.333
2,4,5-Trichlorophenol	0.218	U	0.218	0.333
2,4,6-Trichlorophenol	0.192	U	0.192	0.333

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	81	29 - 120
2-Fluorophenol (Surr)	60	10 - 120
Nitrobenzene-d5 (Surr)	82	27 - 120
Phenol-d5 (Surr)	66	10 - 120
Terphenyl-d14 (Surr)	97	13 - 120
2,4,6-Tribromophenol (Surr)	53	10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-1

Lab Control Sample - Batch: 490-392789

Method: 8270D
Preparation: 3550C

Lab Sample ID:	LCS 490-392789/2-A	Analysis Batch:	490-393758	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	121216-033.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/13/2016 0349	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	1.67	1.149	69	36 - 120	
Acenaphthylene	1.67	1.105	66	38 - 120	
Aniline	1.67	0.8249	49	10 - 150	
Anthracene	1.67	1.365	82	46 - 124	
Benzidine	1.67	0.5201	31	10 - 150	
Benzo(a)anthracene	1.67	1.381	83	45 - 120	
Benzo(a)pyrene	1.67	1.340	80	45 - 120	
Benzo(b)fluoranthene	1.67	1.388	83	42 - 120	
Benzo(g,h,i)perylene	1.67	1.431	86	38 - 120	
Benzoic acid	1.67	0.4774	29	10 - 150	
Benzo(k)fluoranthene	1.67	1.442	87	42 - 120	
Benzyl alcohol	1.67	0.8984	54	43 - 131	
Bis(2-chloroethoxy)methane	1.67	0.8746	52	32 - 120	
Bis(2-chloroethyl)ether	1.67	0.9055	54	31 - 120	
bis (2-chloroisopropyl) ether	1.67	0.7364	44	32 - 120	
Bis(2-ethylhexyl)phthalate	1.67	1.401	84	43 - 120	
4-Bromophenyl phenyl ether	1.67	1.403	84	40 - 120	
Butyl benzyl phthalate	1.67	1.421	85	43 - 133	
Carbazole	1.67	1.326	80	44 - 120	
4-Chloroaniline	1.67	1.040	62	35 - 120	
4-Chloro-3-methylphenol	1.67	1.210	73	38 - 120	
2-Chloronaphthalene	1.67	1.021	61	34 - 120	
2-Chlorophenol	1.67	0.8468	51	32 - 120	
4-Chlorophenyl phenyl ether	1.67	1.306	78	42 - 120	
Chrysene	1.67	1.404	84	43 - 120	
Dibenzo(a,h)anthracene	1.67	1.408	84	32 - 128	
Dibenzofuran	1.67	1.181	71	41 - 120	
1,2-Dichlorobenzene	1.67	0.8391	50	33 - 120	
1,3-Dichlorobenzene	1.67	0.8202	49	32 - 120	
1,4-Dichlorobenzene	1.67	0.8170	49	32 - 120	
3,3'-Dichlorobenzidine	1.67	1.183	71	39 - 120	
2,4-Dichlorophenol	1.67	0.9686	58	32 - 120	
Diethyl phthalate	1.67	1.378	83	41 - 122	
2,4-Dimethylphenol	1.67	0.9787	59	32 - 120	
Dimethyl phthalate	1.67	1.271	76	55 - 120	
Di-n-butyl phthalate	1.67	1.409	85	46 - 127	
4,6-Dinitro-o-cresol	3.33	0.7182	22	27 - 134	*
2,4-Dinitrophenol	3.33	0.3829	11	10 - 142	
2,4-Dinitrotoluene	1.67	1.328	80	43 - 120	
2,6-Dinitrotoluene	1.67	1.282	77	43 - 120	
Di-n-octyl phthalate	1.67	1.440	86	40 - 130	

Client: Roux Associates, Inc. Job Number: 490-117346-1

Lab Control Sample - Batch: 490-392789

Method: 8270D
Preparation: 3550C

Lab Sample ID:	LCS 490-392789/2-A	Analysis Batch:	490-393758	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	121216-033.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/13/2016 0349	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,2-Diphenylhydrazine (as Azobenzene)	1.67	1.300	78	10 - 150	
Fluoranthene	1.67	1.333	80	46 - 120	
Fluorene	1.67	1.255	75	42 - 120	
Hexachlorobenzene	1.67	1.512	91	44 - 120	
Hexachlorobutadiene	1.67	0.9341	56	31 - 120	
Hexachlorocyclopentadiene	1.67	0.150	6	24 - 120	U *
Hexachloroethane	1.67	0.7515	45	33 - 120	
Ideno(1,2,3-cd)pyrene	1.67	1.359	82	41 - 121	
Isophorone	1.67	0.9407	56	33 - 120	
1-Methylnaphthalene	1.67	0.9686	58	32 - 120	
2-Methylnaphthalene	1.67	0.9580	57	28 - 120	
Naphthalene	1.67	0.8775	53	32 - 120	
2-Nitroaniline	1.67	1.287	77	40 - 120	
3-Nitroaniline	1.67	1.271	76	42 - 120	
4-Nitroaniline	1.67	1.269	76	43 - 120	
Nitrobenzene	1.67	0.8884	53	26 - 120	
2-Nitrophenol	1.67	0.8692	52	29 - 120	
4-Nitrophenol	3.33	4.930	148	32 - 136	*
N-Nitrosodimethylamine	1.67	0.7043	42	10 - 150	
N-Nitrosodi-n-propylamine	1.67	0.8534	51	35 - 120	
N-Nitrosodiphenylamine	1.42	1.368	97	52 - 140	
Pentachlorophenol	3.33	2.292	69	44 - 134	
Phenanthrene	1.67	1.376	83	45 - 120	
Phenol	1.67	0.8362	50	30 - 120	
Pyrene	1.67	1.457	87	43 - 120	
Pyridine	1.67	0.7751	47	20 - 120	
1,2,4-Trichlorobenzene	1.67	0.8843	53	29 - 120	
2,4,5-Trichlorophenol	1.67	1.262	76	39 - 120	
2,4,6-Trichlorophenol	1.67	1.150	69	39 - 120	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	58	29 - 120
2-Fluorophenol (Surr)	46	10 - 120
Nitrobenzene-d5 (Surr)	51	27 - 120
Phenol-d5 (Surr)	50	10 - 120
Terphenyl-d14 (Surr)	88	13 - 120
2,4,6-Tribromophenol (Surr)	84	10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392789

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-117346-A-25-C MS	Analysis Batch:	490-394282	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	120616-22.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.68 g
Analysis Date:	12/14/2016 1959			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-A-25-D MSD	Analysis Batch:	490-394282	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	120616-23.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.22 g
Analysis Date:	12/14/2016 2017			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	46	56	19 - 120	20	50		
Acenaphthylene	46	55	25 - 120	20	50		
Aniline	33	41	10 - 200	22	50	J	
Anthracene	53	66	28 - 125	23	49		
Benzidine	18	0	5 - 200	NC	50	J	U *
Benzo(a)anthracene	55	69	23 - 120	25	50		
Benzo(a)pyrene	52	67	15 - 128	26	50		
Benzo(b)fluoranthene	59	65	12 - 133	10	50		
Benzo(g,h,i)perylene	57	80	22 - 120	34	50		
Benzoic acid	41	48	10 - 200	17	50		
Benzo(k)fluoranthene	51	75	28 - 120	40	45		
Benzyl alcohol	36	44	10 - 200	22	50		
Bis(2-chloroethoxy)methane	34	42	24 - 120	22	50		
Bis(2-chloroethyl)ether	32	39	22 - 120	22	50		
bis (2-chloroisopropyl) ether	30	37	20 - 120	25	50		
Bis(2-ethylhexyl)phthalate	52	66	26 - 120	25	50		
4-Bromophenyl phenyl ether	53	66	31 - 120	23	37		
Butyl benzyl phthalate	53	69	24 - 133	28	50		
Carbazole	53	65	25 - 123	22	46		
4-Chloroaniline	41	49	26 - 120	19	50		
4-Chloro-3-methylphenol	45	53	21 - 120	19	49		
2-Chloronaphthalene	42	50	24 - 120	19	50		
2-Chlorophenol	35	42	25 - 120	21	50		
4-Chlorophenyl phenyl ether	51	0	26 - 120	NC	50		U *
Chrysene	54	66	20 - 120	22	49		
Dibenzo(a,h)anthracene	56	77	12 - 128	33	50		
Dibenzofuran	47	57	21 - 120	20	50		
1,2-Dichlorobenzene	35	43	10 - 120	23	50		
1,3-Dichlorobenzene	34	41	10 - 120	21	50		
1,4-Dichlorobenzene	34	43	10 - 120	24	50		
3,3'-Dichlorobenzidine	52	57	10 - 120	12	50		
2,4-Dichlorophenol	41	50	17 - 120	20	50		

Client: Roux Associates, Inc. Job Number: 490-117346-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392789

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-117346-A-25-C MS	Analysis Batch:	490-394282	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	120616-22.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.68 g
Analysis Date:	12/14/2016 1959			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-A-25-D MSD	Analysis Batch:	490-394282	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	120616-23.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.22 g
Analysis Date:	12/14/2016 2017			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Diethyl phthalate	48	62	29 - 122	25	45		
2,4-Dimethylphenol	35	42	17 - 120	21	50	J	
Dimethyl phthalate	48	60	30 - 120	24	46		
Di-n-butyl phthalate	51	64	29 - 126	23	49		
4,6-Dinitro-o-cresol	0	0	10 - 134	NC	50	U *	U *
2,4-Dinitrophenol	0	0	10 - 150	NC	50	U *	U *
2,4-Dinitrotoluene	46	62	24 - 121	31	50		
2,6-Dinitrotoluene	46	59	24 - 120	27	50		
Di-n-octyl phthalate	54	71	27 - 130	28	50		
1,2-Diphenylhydrazine (as Azobenzene)	44	55	10 - 200	23	50		
Fluoranthene	53	66	10 - 143	24	50		
Fluorene	51	62	20 - 120	20	50		
Hexachlorobenzene	56	69	25 - 120	23	50		
Hexachlorobutadiene	36	45	10 - 120	22	50		
Hexachlorocyclopentadiene	18	23	10 - 120	27	50	J	
Hexachloroethane	31	39	10 - 120	24	50		
Ideno(1,2,3-cd)pyrene	54	75	22 - 121	34	50		
Isophorone	35	42	24 - 120	20	50		
1-Methylnaphthalene	39	48	10 - 120	21	50		
2-Methylnaphthalene	39	47	13 - 120	20	50		
Naphthalene	36	45	10 - 120	25	50		
2-Nitroaniline	41	51	31 - 120	24	50		
3-Nitroaniline	54	66	31 - 120	21	49		
4-Nitroaniline	49	61	28 - 120	24	49		
Nitrobenzene	32	41	19 - 120	25	50		
2-Nitrophenol	23	33	23 - 120	38	50		
4-Nitrophenol	45	57	16 - 139	25	45		
N-Nitrosodimethylamine	27	32	10 - 200	18	50		
N-Nitrosodi-n-propylamine	32	40	24 - 120	22	50		
N-Nitrosodiphenylamine	59	76	26 - 150	26	50		
Pentachlorophenol	53	66	19 - 145	22	50		
Phenanthrene	52	64	21 - 122	22	50		

Client: Roux Associates, Inc. Job Number: 490-117346-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392789

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-117346-A-25-C MS	Analysis Batch:	490-394282	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	120616-22.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.68 g
Analysis Date:	12/14/2016 1959			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-A-25-D MSD	Analysis Batch:	490-394282	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	120616-23.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.22 g
Analysis Date:	12/14/2016 2017			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Phenol	36	43	15 - 120	20	50		
Pyrene	57	79	20 - 123	33	50		
Pyridine	22	27	10 - 200	24	50	J	J
1,2,4-Trichlorobenzene	36	45	14 - 120	23	50		
2,4,5-Trichlorophenol	55	65	27 - 120	19	50		
2,4,6-Trichlorophenol	52	60	24 - 122	17	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	44	51	29 - 120
2-Fluorophenol (Surr)	31	39	10 - 120
Nitrobenzene-d5 (Surr)	33	42	27 - 120
Phenol-d5 (Surr)	37	44	10 - 120
Terphenyl-d14 (Surr)	61	77	13 - 120
2,4,6-Tribromophenol (Surr)	63	76	10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-1

Method Blank - Batch: 490-392126 **Method: 6010C**
Preparation: 3051A

Lab Sample ID:	MB 490-392126/1-A	Analysis Batch:	490-392352	Instrument ID:	ICP6
Client Matrix:	Solid	Prep Batch:	490-392126	Lab File ID:	TALS_120616-6B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.502 g
Analysis Date:	12/06/2016 1723	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1335				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	9.96	U	9.96	19.9
Antimony	0.996	U	0.996	9.96
Arsenic	1.20	U	1.20	1.99
Barium	0.996	U	0.996	1.99
Beryllium	0.199	U	0.199	0.996
Cadmium	0.0996	U	0.0996	0.996
Calcium	99.6	U	99.6	199
Chromium	0.896	U	0.896	0.996
Cobalt	0.996	U	0.996	1.99
Copper	1.10	U	1.10	1.99
Iron	19.9	U	19.9	39.8
Lead	0.498	U	0.498	0.996
Magnesium	99.6	U	99.6	199
Manganese	0.996	U	0.996	2.99
Nickel	0.598	U	0.598	1.99
Selenium	1.295	J	1.10	1.99
Silver	0.398	U	0.398	0.996
Thallium	1.155	J	0.598	1.99
Vanadium	1.99	U	1.99	9.96
Zinc	4.98	U	4.98	9.96

Method Blank - Batch: 490-392126 **Method: 6010C**
Preparation: 3051A

Lab Sample ID:	MB 490-392126/1-A	Analysis Batch:	490-392645	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-392126	Lab File ID:	TALS_120716-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.502 g
Analysis Date:	12/07/2016 1550	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1335				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Potassium	99.6	U	99.6	199
Sodium	129	U	129	199

Client: Roux Associates, Inc. Job Number: 490-117346-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-392126

Method: 6010C
Preparation: 3051A

LCS Lab Sample ID:	LCS 490-392126/2-A	Analysis Batch:	490-392352	Instrument ID:	ICP6
Client Matrix:	Solid	Prep Batch:	490-392126	Lab File ID:	TALS_120616-6B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.523 g
Analysis Date:	12/06/2016 1729	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1335				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-392126/3-A	Analysis Batch:	490-392352	Instrument ID:	ICP6
Client Matrix:	Solid	Prep Batch:	490-392126	Lab File ID:	TALS_120616-6B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.501 g
Analysis Date:	12/06/2016 1734	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1335				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Aluminum	97	99	80 - 120	6	20		
Antimony	96	96	80 - 120	5	20		
Arsenic	96	91	80 - 120	1	20		
Barium	100	102	80 - 120	7	20		
Beryllium	102	104	80 - 120	6	20		
Cadmium	98	100	80 - 120	6	20		
Calcium	103	104	80 - 120	6	20		
Chromium	99	101	80 - 120	6	20		
Cobalt	97	99	80 - 120	6	20		
Copper	100	100	80 - 120	5	20		
Iron	99	102	80 - 120	6	20		
Lead	99	103	80 - 120	9	20		
Magnesium	101	103	80 - 120	6	20		
Manganese	101	103	80 - 120	7	20		
Nickel	101	103	80 - 120	6	20		
Selenium	103	107	80 - 120	7	20		
Silver	83	84	80 - 120	6	20		
Thallium	95	97	80 - 120	7	20		
Vanadium	102	104	80 - 120	6	20		
Zinc	98	100	80 - 120	6	20		

Client: Roux Associates, Inc. Job Number: 490-117346-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-392126

Method: 6010C
Preparation: 3051A

LCS Lab Sample ID:	LCS 490-392126/2-A	Analysis Batch:	490-392645	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-392126	Lab File ID:	TALS_120716-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.523 g
Analysis Date:	12/07/2016 1556	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1335				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-392126/3-A	Analysis Batch:	490-392645	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-392126	Lab File ID:	TALS_120716-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.501 g
Analysis Date:	12/07/2016 1600	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1335				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Potassium	97	95	80 - 120	2	20		
Sodium	98	96	80 - 120	1	20		

Client: Roux Associates, Inc. Job Number: 490-117346-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392126

Method: 6010C
Preparation: 3051A

MS Lab Sample ID:	490-117214-A-2-B MS	Analysis Batch:	490-392352	Instrument ID:	ICP6
Client Matrix:	Solid	Prep Batch:	490-392126	Lab File ID:	TALS_120616-6B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.503 g
Analysis Date:	12/06/2016 1805			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1335				
Leach Date:	N/A				

MSD Lab Sample ID:	490-117214-A-2-C MSD	Analysis Batch:	490-392352	Instrument ID:	ICP6
Client Matrix:	Solid	Prep Batch:	490-392126	Lab File ID:	TALS_120616-6B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.511 g
Analysis Date:	12/06/2016 1821			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1335				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aluminum	431	702	75 - 125	25	20	4	4 N
Antimony	85	95	75 - 125	10	20		
Arsenic	121	99	75 - 125	17	20		
Barium	96	99	75 - 125	1	20		
Beryllium	98	100	75 - 125	1	20		
Cadmium	95	97	75 - 125	1	20		
Calcium	119	132	75 - 125	7	20		N
Chromium	99	107	75 - 125	5	20		
Cobalt	93	95	75 - 125	1	20		
Copper	94	102	75 - 125	6	20		
Iron	812	229	75 - 125	18	20	4	4
Lead	100	100	75 - 125	1	20		
Magnesium	108	124	75 - 125	10	20		
Manganese	99	105	75 - 125	4	20		
Nickel	96	98	75 - 125	1	20		
Selenium	89	99	75 - 125	10	20		
Silver	81	82	75 - 125	0	20		
Thallium	90	93	75 - 125	2	20		
Vanadium	99	100	75 - 125	0	20		
Zinc	91	94	75 - 125	2	20		

Client: Roux Associates, Inc. Job Number: 490-117346-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392126

Method: 6010C
Preparation: 3051A

MS Lab Sample ID:	490-117214-A-2-B MS	Analysis Batch:	490-392645	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-392126	Lab File ID:	TALS_120716-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.503 g
Analysis Date:	12/07/2016 1616			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1335				
Leach Date:	N/A				

MSD Lab Sample ID:	490-117214-A-2-C MSD	Analysis Batch:	490-392645	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-392126	Lab File ID:	TALS_120716-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.511 g
Analysis Date:	12/07/2016 1621			Final Weight/Volume:	100 mL
Prep Date:	12/06/2016 1335				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Potassium	94	108	75 - 125	10	20		
Sodium	95	100	75 - 125	4	20		

Client: Roux Associates, Inc. Job Number: 490-117346-1

Method Blank - Batch: 490-392479

Method: 6010C
Preparation: 3051A

Lab Sample ID:	MB 490-392479/1-A	Analysis Batch:	490-393176	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-392479	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.507 g
Analysis Date:	12/08/2016 1159	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1327				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	9.86	U	9.86	19.7
Antimony	0.986	U	0.986	9.86
Arsenic	1.18	U	1.18	1.97
Barium	0.986	U	0.986	1.97
Beryllium	0.197	U	0.197	0.986
Cadmium	0.0986	U	0.0986	0.986
Calcium	98.6	U	98.6	197
Chromium	0.888	U	0.888	0.986
Cobalt	0.986	U	0.986	1.97
Copper	1.08	U	1.08	1.97
Iron	19.7	U	19.7	39.4
Lead	0.493	U	0.493	0.986
Magnesium	98.6	U	98.6	197
Manganese	0.986	U	0.986	2.96
Nickel	0.592	U	0.592	1.97
Potassium	98.6	U	98.6	197
Selenium	1.08	U	1.08	1.97
Silver	0.394	U	0.394	0.986
Sodium	128	U	128	197
Thallium	0.592	U	0.592	1.97
Vanadium	1.97	U	1.97	9.86
Zinc	4.93	U	4.93	9.86

Client: Roux Associates, Inc. Job Number: 490-117346-1

Lab Control Sample - Batch: 490-392479

Method: 6010C
Preparation: 3051A

Lab Sample ID:	LCS 490-392479/2-A	Analysis Batch:	490-393176	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-392479	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.502 g
Analysis Date:	12/08/2016 1204	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1327				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	797	798.0	100	80 - 120	
Antimony	39.8	36.77	92	80 - 120	
Arsenic	19.9	19.34	97	80 - 120	
Barium	797	812.5	102	80 - 120	
Beryllium	19.9	20.20	101	80 - 120	
Cadmium	19.9	20.50	103	80 - 120	
Calcium	1990	1994	100	80 - 120	
Chromium	79.7	87.35	110	80 - 120	
Cobalt	199	209.4	105	80 - 120	
Copper	99.6	99.68	100	80 - 120	
Iron	398	399.6	100	80 - 120	
Lead	19.9	19.82	99	80 - 120	
Magnesium	1990	1988	100	80 - 120	
Manganese	199	200.8	101	80 - 120	
Nickel	199	209.8	105	80 - 120	
Potassium	1990	1968	99	80 - 120	
Selenium	19.9	19.20	96	80 - 120	
Silver	19.9	19.16	96	80 - 120	
Sodium	1990	1959	98	80 - 120	
Thallium	120	113.2	95	80 - 120	
Vanadium	199	201.0	101	80 - 120	
Zinc	199	192.7	97	80 - 120	

Client: Roux Associates, Inc. Job Number: 490-117346-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392479

Method: 6010C
Preparation: 3051A

MS Lab Sample ID:	490-117454-D-1-B MS	Analysis Batch:	490-393176	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-392479	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.506 g
Analysis Date:	12/08/2016 1242			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1327				
Leach Date:	N/A				

MSD Lab Sample ID:	490-117454-D-1-C MSD	Analysis Batch:	490-393176	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-392479	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.507 g
Analysis Date:	12/08/2016 1247			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1327				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aluminum	102	99	75 - 125	3	20		
Antimony	87	88	75 - 125	1	20		
Arsenic	93	95	75 - 125	2	20		
Barium	97	99	75 - 125	2	20		
Beryllium	98	99	75 - 125	1	20		
Cadmium	99	101	75 - 125	2	20		
Calcium	101	103	75 - 125	1	20		
Chromium	108	109	75 - 125	1	20		
Cobalt	101	103	75 - 125	2	20		
Copper	97	98	75 - 125	1	20		
Iron	114	104	75 - 125	9	20		
Lead	97	98	75 - 125	1	20		
Magnesium	98	99	75 - 125	1	20		
Manganese	98	100	75 - 125	2	20		
Nickel	101	103	75 - 125	2	20		
Potassium	95	96	75 - 125	1	20		
Selenium	90	93	75 - 125	3	20		
Silver	93	94	75 - 125	1	20		
Sodium	95	96	75 - 125	1	20		
Thallium	90	92	75 - 125	2	20		
Vanadium	97	99	75 - 125	1	20		
Zinc	94	95	75 - 125	2	20		

Client: Roux Associates, Inc. Job Number: 490-117346-1

Method Blank - Batch: 490-394265

Method: 7471B
Preparation: 7471B

Lab Sample ID:	MB 490-394265/1-A	Analysis Batch:	490-394618	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.597 g
Analysis Date:	12/15/2016 1007	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0302	U	0.0302	0.101

Lab Control Sample - Batch: 490-394265

Method: 7471B
Preparation: 7471B

Lab Sample ID:	LCS 490-394265/2-A	Analysis Batch:	490-394618	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.625 g
Analysis Date:	12/15/2016 1010	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.160	0.1572	98	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-394265

Method: 7471B
Preparation: 7471B

MS Lab Sample ID:	490-117346-1	Analysis Batch:	490-394618	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.604 g
Analysis Date:	12/15/2016 1015			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-1	Analysis Batch:	490-394618	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.606 g
Analysis Date:	12/15/2016 1017			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	106	100	80 - 120	6	20		

Client: Roux Associates, Inc. Job Number: 490-117346-1

Duplicate - Batch: 490-392389

Method: Moisture
Preparation: N/A

Lab Sample ID:	490-117346-7	Analysis Batch:	490-392389	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/07/2016 1036	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	89.5	90.9	2	20	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-117346 Chain of Custody

Cooler Received/Opened On 12/3/2016 @0925

Time Samples Removed From Cooler 1450 Time Samples Placed In Storage 1532 (2 Hour Window)

1. Tracking # 1722 (last 4 digits, FedEx) Courier: FEDEX

IR Gun ID_31470366 pH Strip Lot HC 682547 Chlorine Strip Lot 0816640

2. Temperature of rep. sample or temp blank when opened: 4.7 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 1

I certify that I unloaded the cooler and answered questions 7-14 (intial) PN

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) PN

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) PN

I certify that I attached a label with the unique LIMS number to each container (intial) PN

21. Were there Non-Conformance issues at login? YES..NO Was a NCM generated? YES..NO..#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 12/15/15

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Loc: 490
117346
#1
C

Cooler Received/Opened On 12/3/2016 @0925

Time Samples Removed From Cooler 1510 Time Samples Placed In Storage 1552 (2 Hour Window)

1. Tracking # 7144 (last 4 digits, FedEx) Courier: FEDEX

IR Gun ID 97310166 pH Strip Lot HC682547 Chlorine Strip Lot 0811611

2. Temperature of rep. sample or temp blank when opened: 4.8 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES..NO...NA

If yes, how many and where: Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) SL

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES..NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 2

I certify that I unloaded the cooler and answered questions 7-14 (intial) PM

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) PM

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) PM

I certify that I attached a label with the unique LIMS number to each container (intial) PM

21. Were there Non-Conformance issues at login? YES..NO Was a NCM generated? YES..NO..#_____

BIS = Broken in shipment

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Anthony Marsocci	Lab PM: Huckaba, Jennifer	Carrier Tracking No(s):	COC No: 490-59953-19378
Client Contact: Matthew Casey	Phone: 585-721-1196	E-Mail: jennifer.huckaba@testamericainc.com		Page: Page 1 OF 4
Company: Roux Associates, Inc.				Job #:
Address: 12 Gill St., Suite 4700	Due Date Requested:			
City: Woburn	TAT Requested (days): Standard			
State, Zip: MA, 01801				
Phone:	PO #: 0172.0210M009			
Email: mcasey@rouxinc.com	WO #:			
Project Name: Roux - Olean, NY	Project #: 49005538			
Site: 350/351 Franklin Street	SSOW#:			

Analysis Requested

Loc: 490
117346

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Standard 8260 List + TICs	8270D - Standard List	6010C, 7471B - TAL METALS	DRY WEIGHT	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
END 447	11/28/16	1500	G	S	N	N	X	X	X	X	4	
END 450	11/28/16	1530	G	S	N	N	X	X	X	X	4	
END 445	11/28/16	1430	G	S	N	N	X	X	X	X	4	
END 443	11/28/16	1400	G	S	N	N	X	X	X	X	4	
END 449	11/28/16	1530	G	S	N	N	X	X	X	X	4	
END 448	11/28/16	1500	G	S	N	N	X	X	X	X	4	
END 452	11/29/16	1600	G	S	N	N	X	X	X	X	4	
END 446	11/28/16	1430	G	S	N	N	X	X	X	X	4	
END 444	11/28/16	1400	G	S	N	N	X	X	X	X	4	
TP-313-6-7	11/28/16	1145	G	S	N	N	X	X	X	X	4	
Trip Blank											2	

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Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) CAT A

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Anthony Marsocci | Date: 02 Dec 2016 | Time: 1600 | Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		02 Dec 2016 1600	ROUX	FedEx		
2					12/3/16 925	TAN
3					4:7	

Custody Seals Intact: ☒ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Anthony Marsocci	Lab PM: Huckaba, Jennifer	Carrier Tracking No(s):	COC No: 490-59873-19348
Client Contact: Matthew Casey	Phone: 585-721-1196	E-Mail: jennifer.huckaba@testamericainc.com		Page: Page 2 OF 4
Company: Roux Associates, Inc.				Job #:
Address: 12 Gill St., Suite 4700	Due Date Requested:			
City: Woburn	TAT Requested (days): Standard			
State, Zip: MA, 01801				
Phone:	PO #: 0172.0210M009			
Email: mcasey@rouxinc.com	WO #:			
Project Name: Roux - Olean, NY	Project #: 49005538			
Site: 350/351 Franklin Street	SSOW#:			

Analysis Requested

Loc: 490
117346
#1
A

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Standard 8260 List	8270D - Standard List	6010C, 7471B - TAL METALS	DRY WEIGHT	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
END 459	11/29/16	1030	G	S	N	N	X	X	X	X	4	
END 457	11/29/16	0930	G	S	N	N	X	X	X	X	4	
END 456	11/29/16	0915	G	S	N	N	X	X	X	X	4	
END 453	11/29/16	0900	G	S	N	N	X	X	X	X	4	
END 455	11/29/16	0915	G	S	N	N	X	X	X	X	4	
END 454	11/29/16	0900	G	S	N	N	X	X	X	X	4	
END 458	11/29/16	1030	G	S	N	N	X	X	X	X		

Page 1 of 1
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16
17
18

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) CAT A

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Anthony Marsocci	Date: 02 Dec 2016	Time: 1600	Method of Shipment:		
Relinquished by:	Date/Time: 02 Dec 2016 1600	Company: ROUX	Received by: FedEx	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: 4.7	Date/Time: 12/3/16 925	Company TAN
Relinquished by	Date/Time:	Company	Received by: 4.0	Date/Time:	Company

Custody Seals Intact: ∧ Yes ∧ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: A. Marsocci	Lab PM: Huckaba, Jennifer	Carrier Tracking No(s):	COC No: 490-59873-19348
Client Contact: Matthew Casey	Phone: 585-721-1196	E-Mail: jennifer.huckaba@testamericainc.com		Page: Page 3 OF 4
Company: Roux Associates, Inc.				Job #:
Address: 12 Gill St., Suite 4700	Due Date Requested:			
City: Woburn	TAT Requested (days): Standard			
State, Zip: MA, 01801				
Phone:	PO #: 0172.0210M009			
Email: mcasey@rouxinc.com	WO #:			
Project Name: Roux - Olean, NY	Project #: 49005538			
Site: 350/351 Franklin St	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Loc: 490 117346 #1 B

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Standard 8260 List + TICs	8270D - Standard List	6010C, 7471B - TAL METALS	DRY WEIGHT	Total Number of containers	Special Instructions/Note:
				Preservation Code:									
19	END-460	11/30/16	1400	G	S	N	N	✓	✓	✓	✓	4	
20	END-468	12/1/16	0930	G	S	N	N	✓	✓	✓	✓	4	
21	END-461	11/30/16	1400	G	S	N	N	✓	✓	✓	✓	4	
22	END-466	11/30/16	1430	G	S	N	N	✓	✓	✓	✓	4	
23	END-462	11/30/16	1415	G	S	N	N	✓	✓	✓	✓	4	
24	TRIP BLANK	—	—	LAB	LAB							2	
25	END-465	11/30/16	1416	G	S	N	N	✓	✓	✓	✓	4	
26	END-463	11/30/16	1412	G	S	N	N	✓	✓	✓	✓	4	
27	END-464	11/30/16	1414	G	S	N	N	✓	✓	✓	✓	4	
28	END-467	11/30/16	1430	G	S	N	N	✓	✓	✓	✓	4	

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Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) CAT A

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
A. Marsocci	12/2/16 1600	Roux	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			✓ 4.7	12/3/16 925	TAL
Relinquished by:	Date/Time:	Company	Received by: 4.8	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 490-117346-1

Login Number: 117346
List Number: 1
Creator: Ngo, Phiet

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

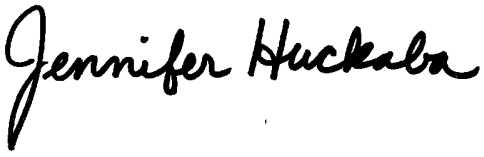
Job Number: 490-117346-2

Job Description: 350/351 Franklin Street

Contract Number: A2288121

For:
Roux Associates, Inc.
12 Gill St., Suite 4700
Woburn, MA 01801

Attention: Matthew Casey



Approved for release.
Jennifer Huckaba
Project Manager II
12/21/2016 2:54 PM

Jennifer Huckaba, Project Manager II
2960 Foster Creighton Drive, Nashville, TN, 37204
(615)301-5042
jennifer.huckaba@testamericainc.com
12/21/2016

The laboratory is only responsible for the certified testing and is not responsible for the sample integrity prior to laboratory receipt.

Table of Contents

Job Narrative
490-117346-2

Comments
PAGE 2 OF COC ONLY. Other 2 pages reported separately due to size.

Receipt
The samples were received on 12/3/2016 9:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.7º C and 4.8º C.

GC/MS VOA
Method(s) 8260C: Surrogate recovery for the following samples was outside control limits: END 453 (490-117346-15). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260C: Surrogate recovery for the following samples was outside control limits: Batch QC 490-392216 (490-117346-D-29-A), (490-117346-A-29-A MS) and (490-117346-A-29-B MS) and Batch QC 490-393067 (490-117346-A-4-C MS) and (490-117346-A-4-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260C: The method blank for analytical batch 490-392216 contained 1,2,3-Trichlorobenzene above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-analysis of samples was not performed.

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 490-393067 recovered outside control limits for the following analytes: Vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 490-393758 recovered above the upper control limit for 4-Nitrophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCVIS 490-393758/3).

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 490-392789 and analytical batch 490-393758 recovered outside control limits for the following analytes: 4-Nitrophenol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 490-392789 and analytical batch 490-393758 recovered outside control limits for 4,6-Dinitro-2-methylphenol and Hexachlorocyclopentadiene but within marginal exceedance. These results have been reported and qualified.

Method(s) 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 490-392789 and analytical batch 490-394282 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

The laboratory is only responsible for the certified testing and is not responsible for the sample integrity prior to laboratory receipt.

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117346-2

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117346-12	**END 459**					
Acetone		0.0683		0.0466	mg/Kg	8260C
Benzene		0.00297		0.00187	mg/Kg	8260C
2-Butanone (MEK)		0.0109	J	0.0466	mg/Kg	8260C
Carbon disulfide		0.0115		0.00466	mg/Kg	8260C
Isopropylbenzene		0.00223		0.00187	mg/Kg	8260C
m,p-Xylene		0.00234	J	0.00373	mg/Kg	8260C
N-Propylbenzene		0.00160	J	0.00187	mg/Kg	8260C
o-Xylene		0.00116	J	0.00187	mg/Kg	8260C
sec-Butylbenzene		0.00194		0.00187	mg/Kg	8260C
Toluene		0.00191		0.00187	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.000861	J	0.00187	mg/Kg	8260C
Xylenes (total)		0.00350	J	0.00560	mg/Kg	8260C
Aluminum		6030		25.6	mg/Kg	6010C
Arsenic		5.74		2.56	mg/Kg	6010C
Barium		30.6		2.56	mg/Kg	6010C
Beryllium		0.256	J	1.28	mg/Kg	6010C
Cadmium		0.436	J	1.28	mg/Kg	6010C
Calcium		218	J	256	mg/Kg	6010C
Chromium		7.02		1.28	mg/Kg	6010C
Cobalt		3.00		2.56	mg/Kg	6010C
Copper		37.3		2.56	mg/Kg	6010C
Iron		7810		51.3	mg/Kg	6010C
Lead		8.41		1.28	mg/Kg	6010C
Magnesium		1590		256	mg/Kg	6010C
Manganese		72.6		3.84	mg/Kg	6010C
Nickel		10.6		2.56	mg/Kg	6010C
Potassium		404		256	mg/Kg	6010C
Vanadium		8.02	J	12.8	mg/Kg	6010C
Zinc		67.2		12.8	mg/Kg	6010C
Percent Solids		78.7		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117346-2

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117346-13	**END 457**					
Acetone		0.0428	J	0.0447	mg/Kg	8260C
Benzene		0.00147	J	0.00179	mg/Kg	8260C
2-Butanone (MEK)		0.00898	J	0.0447	mg/Kg	8260C
Carbon disulfide		0.00364	J	0.00447	mg/Kg	8260C
Isopropylbenzene		0.000584	J	0.00179	mg/Kg	8260C
m,p-Xylene		0.000917	J	0.00357	mg/Kg	8260C
sec-Butylbenzene		0.000894	J	0.00179	mg/Kg	8260C
Toluene		0.000685	J	0.00179	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.00230		0.00179	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.00102	J	0.00179	mg/Kg	8260C
Benzo(a)anthracene		0.0466	J	0.0724	mg/Kg	8270D
Benzo(a)pyrene		0.0323	J	0.0724	mg/Kg	8270D
Benzo(b)fluoranthene		0.0368	J	0.0724	mg/Kg	8270D
Fluoranthene		0.0896		0.0724	mg/Kg	8270D
Phenanthrene		0.0593	J	0.0724	mg/Kg	8270D
Pyrene		0.0643	J	0.0724	mg/Kg	8270D
Aluminum		4980		22.0	mg/Kg	6010C
Arsenic		6.29		2.20	mg/Kg	6010C
Barium		43.5		2.20	mg/Kg	6010C
Beryllium		0.286	J	1.10	mg/Kg	6010C
Cadmium		0.396	J	1.10	mg/Kg	6010C
Calcium		371		220	mg/Kg	6010C
Chromium		6.95		1.10	mg/Kg	6010C
Cobalt		5.11		2.20	mg/Kg	6010C
Copper		23.7		2.20	mg/Kg	6010C
Iron		9760		44.0	mg/Kg	6010C
Lead		12.2		1.10	mg/Kg	6010C
Magnesium		1360		220	mg/Kg	6010C
Manganese		1900		3.30	mg/Kg	6010C
Nickel		12.7		2.20	mg/Kg	6010C
Potassium		284		220	mg/Kg	6010C
Selenium		2.00	J	2.20	mg/Kg	6010C
Vanadium		8.25	J	11.0	mg/Kg	6010C
Zinc		64.6		11.0	mg/Kg	6010C
Percent Solids		90.2		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117346-2

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117346-14	**END 456**					
Acetone		0.0273	J	0.0452	mg/Kg	8260C
Benzene		0.00118	J	0.00181	mg/Kg	8260C
2-Butanone (MEK)		0.00489	J	0.0452	mg/Kg	8260C
m,p-Xylene		0.000918	J	0.00362	mg/Kg	8260C
Toluene		0.000793	J	0.00181	mg/Kg	8260C
Aluminum		5480		22.0	mg/Kg	6010C
Arsenic		5.93		2.20	mg/Kg	6010C
Barium		87.4		2.20	mg/Kg	6010C
Beryllium		0.286	J	1.10	mg/Kg	6010C
Cadmium		0.220	J	1.10	mg/Kg	6010C
Calcium		6060		220	mg/Kg	6010C
Chromium		7.58		1.10	mg/Kg	6010C
Cobalt		4.85		2.20	mg/Kg	6010C
Copper		26.5		2.20	mg/Kg	6010C
Iron		11200		43.9	mg/Kg	6010C
Lead		13.1		1.10	mg/Kg	6010C
Magnesium		1770		220	mg/Kg	6010C
Manganese		563		3.29	mg/Kg	6010C
Nickel		11.4		2.20	mg/Kg	6010C
Potassium		317		220	mg/Kg	6010C
Selenium		1.67	J	2.20	mg/Kg	6010C
Vanadium		8.37	J	11.0	mg/Kg	6010C
Zinc		40.6		11.0	mg/Kg	6010C
Percent Solids		88.4		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117346-2

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117346-15	**END 453**					
Acetone		0.0845		0.0524	mg/Kg	8260C
Benzene		0.0136		0.00210	mg/Kg	8260C
2-Butanone (MEK)		0.0206	J	0.0524	mg/Kg	8260C
Ethylbenzene		0.00715		0.00210	mg/Kg	8260C
Isopropylbenzene		0.0438		0.00210	mg/Kg	8260C
m,p-Xylene		0.0495		0.00419	mg/Kg	8260C
Naphthalene		0.00620		0.00524	mg/Kg	8260C
n-Butylbenzene		0.0163		0.00210	mg/Kg	8260C
N-Propylbenzene		0.0531		0.00210	mg/Kg	8260C
o-Xylene		0.0103		0.00210	mg/Kg	8260C
p-Isopropyltoluene		0.00517		0.00210	mg/Kg	8260C
sec-Butylbenzene		0.0356		0.00210	mg/Kg	8260C
tert-Butylbenzene		0.00695		0.00210	mg/Kg	8260C
Toluene		0.0112		0.00210	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.163		0.00210	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.0317		0.00210	mg/Kg	8260C
Xylenes (total)		0.0598		0.00629	mg/Kg	8260C
Aluminum		4880		21.5	mg/Kg	6010C
Arsenic		5.07		2.15	mg/Kg	6010C
Barium		39.1		2.15	mg/Kg	6010C
Beryllium		0.258	J	1.07	mg/Kg	6010C
Cadmium		0.537	J	1.07	mg/Kg	6010C
Calcium		798		215	mg/Kg	6010C
Chromium		7.17		1.07	mg/Kg	6010C
Cobalt		4.42		2.15	mg/Kg	6010C
Copper		27.3		2.15	mg/Kg	6010C
Iron		8350		42.9	mg/Kg	6010C
Lead		11.0		1.07	mg/Kg	6010C
Magnesium		1600		215	mg/Kg	6010C
Manganese		1570		3.22	mg/Kg	6010C
Nickel		13.0		2.15	mg/Kg	6010C
Potassium		404		215	mg/Kg	6010C
Selenium		1.18	J	2.15	mg/Kg	6010C
Vanadium		8.59	J	10.7	mg/Kg	6010C
Zinc		68.3		10.7	mg/Kg	6010C
Percent Solids		89.9		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117346-2

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117346-16	**END 455**					
Acetone		0.0213	J	0.0626	mg/Kg	8260C
Aluminum		6450		21.0	mg/Kg	6010C
Arsenic		6.74		2.10	mg/Kg	6010C
Barium		34.8		2.10	mg/Kg	6010C
Beryllium		0.315	J	1.05	mg/Kg	6010C
Cadmium		0.231	J	1.05	mg/Kg	6010C
Chromium		6.93		1.05	mg/Kg	6010C
Cobalt		5.00		2.10	mg/Kg	6010C
Copper		50.3		2.10	mg/Kg	6010C
Iron		11200		42.0	mg/Kg	6010C
Lead		12.8		1.05	mg/Kg	6010C
Magnesium		1500		210	mg/Kg	6010C
Manganese		696		3.15	mg/Kg	6010C
Nickel		11.5		2.10	mg/Kg	6010C
Potassium		333		210	mg/Kg	6010C
Selenium		1.26	J	2.10	mg/Kg	6010C
Vanadium		9.07	J	10.5	mg/Kg	6010C
Zinc		52.4		10.5	mg/Kg	6010C
Percent Solids		92.6		0.1	%	Moisture
490-117346-17	**END 454**					
Acetone		0.0373	J	0.0426	mg/Kg	8260C
2-Butanone (MEK)		0.00507	J	0.0426	mg/Kg	8260C
Aluminum		7210		21.7	mg/Kg	6010C
Arsenic		7.68		2.17	mg/Kg	6010C
Barium		37.2		2.17	mg/Kg	6010C
Beryllium		0.370	J	1.09	mg/Kg	6010C
Cadmium		0.217	J	1.09	mg/Kg	6010C
Chromium		9.26		1.09	mg/Kg	6010C
Cobalt		6.11		2.17	mg/Kg	6010C
Copper		34.4		2.17	mg/Kg	6010C
Iron		14000		43.5	mg/Kg	6010C
Lead		11.7		1.09	mg/Kg	6010C
Magnesium		1860		217	mg/Kg	6010C
Manganese		572		3.26	mg/Kg	6010C
Nickel		15.5		2.17	mg/Kg	6010C
Potassium		295		217	mg/Kg	6010C
Selenium		1.78	J	2.17	mg/Kg	6010C
Vanadium		11.9		10.9	mg/Kg	6010C
Zinc		44.9		10.9	mg/Kg	6010C
Percent Solids		91.2		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117346-2

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117346-18	**END 458**					
Acetone		0.0223	J	0.0470	mg/Kg	8260C
Benzene		0.00149	J	0.00188	mg/Kg	8260C
Isopropylbenzene		0.000686	J	0.00188	mg/Kg	8260C
Methylene Chloride		0.00115	J	0.00940	mg/Kg	8260C
m,p-Xylene		0.000753	J	0.00376	mg/Kg	8260C
sec-Butylbenzene		0.000665	J	0.00188	mg/Kg	8260C
Aluminum		6860		24.7	mg/Kg	6010C
Arsenic		5.63		2.47	mg/Kg	6010C
Barium		60.0		2.47	mg/Kg	6010C
Beryllium		0.321	J	1.23	mg/Kg	6010C
Cadmium		0.370	J	1.23	mg/Kg	6010C
Calcium		1230		247	mg/Kg	6010C
Chromium		9.21		1.23	mg/Kg	6010C
Cobalt		5.23		2.47	mg/Kg	6010C
Copper		27.5		2.47	mg/Kg	6010C
Iron		12000		49.4	mg/Kg	6010C
Lead		11.4		1.23	mg/Kg	6010C
Magnesium		1990		247	mg/Kg	6010C
Manganese		1350		3.70	mg/Kg	6010C
Nickel		13.5		2.47	mg/Kg	6010C
Potassium		468		247	mg/Kg	6010C
Selenium		1.65	J	2.47	mg/Kg	6010C
Vanadium		11.1	J	12.3	mg/Kg	6010C
Zinc		64.8		12.3	mg/Kg	6010C
Percent Solids		79.6		0.1	%	Moisture

METHOD SUMMARY

Client: Roux Associates, Inc. Job Number: 490-117346-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS	TAL NSH	SW846 8260C	
Closed System Purge and Trap	TAL NSH		SW846 5035A
Semivolatile Organic Compounds (GC/MS)	TAL NSH	SW846 8270D	
Ultrasonic Extraction	TAL NSH		SW846 3550C
Metals (ICP)	TAL NSH	SW846 6010C	
Preparation, Metals, Microwave Assisted	TAL NSH		SW846 3051A
Mercury (CVAA)	TAL NSH	SW846 7471B	
Preparation, Mercury	TAL NSH		SW846 7471B
Percent Moisture	TAL NSH	EPA Moisture	

Lab References:

TAL NSH = TestAmerica Nashville

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Roux Associates, Inc. Job Number: 490-117346-2

Method	Analyst	Analyst ID
SW846 8260C	Larsen, Eric	EML
SW846 8270D	Chaiyasit, Thitima 1	T1C
SW846 6010C	Fly, Robyn D	RDF
SW846 7471B	Smith, Lauren C	LCS
EPA Moisture	Ali, Blnd A	BAA

SAMPLE SUMMARY

Client: Roux Associates, Inc. Job Number: 490-117346-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
490-117346-12	END 459	Solid	11/29/2016 1030	12/03/2016 0925
490-117346-13	END 457	Solid	11/29/2016 0930	12/03/2016 0925
490-117346-14	END 456	Solid	11/29/2016 0915	12/03/2016 0925
490-117346-15	END 453	Solid	11/29/2016 0900	12/03/2016 0925
490-117346-16	END 455	Solid	11/29/2016 0915	12/03/2016 0925
490-117346-17	END 454	Solid	11/29/2016 0900	12/03/2016 0925
490-117346-18	END 458	Solid	11/29/2016 1030	12/03/2016 0925

SAMPLE RESULTS

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 459

Lab Sample ID: 490-117346-12 Date Sampled: 11/29/2016 1030
Client Matrix: Solid % Moisture: 21.3 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-10.D
Dilution:	1.0			Initial Weight/Volume:	6.813 g
Analysis Date:	12/09/2016 1424			Final Weight/Volume:	5.0 mL
Prep Date:	11/29/2016 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0683		0.00784	0.0466
Benzene		0.00297		0.000625	0.00187
Bromobenzene		0.000672	U	0.000672	0.00187
Bromochloromethane		0.000513	U	0.000513	0.00187
Bromodichloromethane		0.000513	U	0.000513	0.00187
Bromoform		0.000513	U	0.000513	0.00187
Bromomethane		0.00112	U	0.00112	0.00187
2-Butanone (MEK)		0.0109	J	0.00476	0.0466
Carbon disulfide		0.0115		0.00336	0.00466
Carbon tetrachloride		0.000625	U	0.000625	0.00187
Chlorobenzene		0.000625	U	0.000625	0.00187
Chloroethane		0.00177	U	0.00177	0.00466
Chloroform		0.000625	U	0.000625	0.00187
Chloromethane		0.000625	U	0.000625	0.00187
cis-1,2-Dichloroethene		0.000625	U	0.000625	0.00187
cis-1,3-Dichloropropene		0.000625	U	0.000625	0.00187
Dibromochloromethane		0.000317	U	0.000317	0.00187
1,2-Dibromo-3-chloropropane		0.000653	U	0.000653	0.00466
1,2-Dibromoethane		0.000933	U	0.000933	0.00187
1,2-Dichlorobenzene		0.000317	U	0.000317	0.00187
1,3-Dichlorobenzene		0.000625	U	0.000625	0.00187
1,4-Dichlorobenzene		0.000625	U	0.000625	0.00187
Dichlorodifluoromethane		0.000933	U	0.000933	0.00187
1,1-Dichloroethane		0.000625	U	0.000625	0.00187
1,2-Dichloroethane		0.000625	U	0.000625	0.00187
1,1-Dichloroethene		0.000532	U	0.000532	0.00187
1,2-Dichloropropane		0.000877	U	0.000877	0.00187
1,3-Dichloropropane		0.000877	U	0.000877	0.00187
2,2-Dichloropropane		0.000625	U	0.000625	0.00187
1,1-Dichloropropene		0.000476	U	0.000476	0.00187
Ethylbenzene		0.000625	U	0.000625	0.00187
Hexachlorobutadiene		0.00106	U	0.00106	0.00466
2-Hexanone		0.0156	U	0.0156	0.0466
Iodomethane		0.00625	U	0.00625	0.0187
Isopropylbenzene		0.00223		0.000382	0.00187
Methylene bromide		0.000522	U	0.000522	0.00187
Methylene Chloride		0.000802	U	0.000802	0.00933
4-Methyl-2-pentanone (MIBK)		0.00177	U	0.00177	0.0466
Methyl tert butyl ether		0.000896	U	0.000896	0.00187
m,p-Xylene		0.00234	J	0.000522	0.00373
Naphthalene		0.00159	U	0.00159	0.00466
n-Butylbenzene		0.000914	U	0.000914	0.00187
N-Propylbenzene		0.00160	J	0.000625	0.00187
o-Chlorotoluene		0.000830	U	0.000830	0.00187
o-Xylene		0.00116	J	0.000625	0.00187
p-Chlorotoluene		0.000784	U	0.000784	0.00187

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 459

Lab Sample ID: 490-117346-12 Date Sampled: 11/29/2016 1030
Client Matrix: Solid % Moisture: 21.3 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-10.D
Dilution:	1.0			Initial Weight/Volume:	6.813 g
Analysis Date:	12/09/2016 1424			Final Weight/Volume:	5.0 mL
Prep Date:	11/29/2016 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000625	U	0.000625	0.00187
sec-Butylbenzene		0.00194		0.000625	0.00187
Styrene		0.00103	U	0.00103	0.00187
tert-Butylbenzene		0.000840	U	0.000840	0.00187
1,1,1,2-Tetrachloroethane		0.000625	U	0.000625	0.00187
1,1,2,2-Tetrachloroethane		0.000933	U	0.000933	0.00187
Tetrachloroethene		0.000681	U	0.000681	0.00187
Toluene		0.00191		0.000690	0.00187
trans-1,2-Dichloroethene		0.000625	U	0.000625	0.00187
trans-1,3-Dichloropropene		0.000625	U	0.000625	0.00187
1,2,3-Trichlorobenzene		0.000354	U	0.000354	0.00187
1,2,4-Trichlorobenzene		0.000625	U	0.000625	0.00187
1,1,1-Trichloroethane		0.000858	U	0.000858	0.00187
1,1,2-Trichloroethane		0.00131	U	0.00131	0.00466
Trichloroethene		0.000896	U	0.000896	0.00187
Trichlorofluoromethane		0.000933	U	0.000933	0.00187
1,2,3-Trichloropropane		0.000513	U	0.000513	0.00187
1,2,4-Trimethylbenzene		0.000933	U	0.000933	0.00187
1,3,5-Trimethylbenzene		0.000861	J	0.000700	0.00187
Vinyl acetate		0.00410	U	0.00410	0.0187
Vinyl chloride		0.00103	U	0.00103	0.00187
Xylenes (total)		0.00350	J	0.00115	0.00560

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 459

Lab Sample ID: 490-117346-12 Date Sampled: 11/29/2016 1030
Client Matrix: Solid % Moisture: 21.3 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-10.D
Dilution:	1.0			Initial Weight/Volume:	6.813 g
Analysis Date:	12/09/2016 1424			Final Weight/Volume:	5.0 mL
Prep Date:	11/29/2016 1030				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
96-37-7	Cyclopentane, methyl-	3.67	0.0980	J N
110-82-7	Cyclohexane	4.13	0.0826	
589-34-4	Hexane, 3-methyl-	4.20	0.0635	J N
872-56-0	Isopropylcyclobutane	4.45	0.143	J N
108-87-2	Methylcyclohexane	4.94	0.291	
1640-89-7	Cyclopentane, ethyl-	5.07	0.0602	J N
589-90-2	Cyclohexane, 1,4-dimethyl-	5.97	0.0727	J N
2207-03-6	Cyclohexane, 1,3-dimethyl-, trans-	6.06	0.0890	J N
1678-91-7	Cyclohexane, ethyl-	6.45	0.175	J N
1678-92-8	Cyclohexane, propyl-	7.70	0.0618	J N

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 457

Lab Sample ID: 490-117346-13 Date Sampled: 11/29/2016 0930
Client Matrix: Solid % Moisture: 9.8 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392216	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-38.D
Dilution:	1.0			Initial Weight/Volume:	6.207 g
Analysis Date:	12/07/2016 0514			Final Weight/Volume:	5.0 mL
Prep Date:	11/29/2016 0930				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0428	J	0.00751	0.0447
Benzene		0.00147	J	0.000599	0.00179
Bromobenzene		0.000643	U	0.000643	0.00179
Bromochloromethane		0.000491	U	0.000491	0.00179
Bromodichloromethane		0.000491	U	0.000491	0.00179
Bromoform		0.000491	U	0.000491	0.00179
Bromomethane		0.00107	U	0.00107	0.00179
2-Butanone (MEK)		0.00898	J	0.00456	0.0447
Carbon disulfide		0.00364	J	0.00322	0.00447
Carbon tetrachloride		0.000599	U	0.000599	0.00179
Chlorobenzene		0.000599	U	0.000599	0.00179
Chloroethane		0.00170	U	0.00170	0.00447
Chloroform		0.000599	U	0.000599	0.00179
Chloromethane		0.000599	U	0.000599	0.00179
cis-1,2-Dichloroethene		0.000599	U	0.000599	0.00179
cis-1,3-Dichloropropene		0.000599	U	0.000599	0.00179
Dibromochloromethane		0.000304	U	0.000304	0.00179
1,2-Dibromo-3-chloropropane		0.000625	U	0.000625	0.00447
1,2-Dibromoethane		0.000894	U	0.000894	0.00179
1,2-Dichlorobenzene		0.000304	U	0.000304	0.00179
1,3-Dichlorobenzene		0.000599	U	0.000599	0.00179
1,4-Dichlorobenzene		0.000599	U	0.000599	0.00179
Dichlorodifluoromethane		0.000894	U	0.000894	0.00179
1,1-Dichloroethane		0.000599	U	0.000599	0.00179
1,2-Dichloroethane		0.000599	U	0.000599	0.00179
1,1-Dichloroethene		0.000509	U	0.000509	0.00179
1,2-Dichloropropane		0.000840	U	0.000840	0.00179
1,3-Dichloropropane		0.000840	U	0.000840	0.00179
2,2-Dichloropropane		0.000599	U	0.000599	0.00179
1,1-Dichloropropene		0.000456	U	0.000456	0.00179
Ethylbenzene		0.000599	U	0.000599	0.00179
Hexachlorobutadiene		0.00102	U	0.00102	0.00447
2-Hexanone		0.0149	U	0.0149	0.0447
Iodomethane		0.00599	U	0.00599	0.0179
Isopropylbenzene		0.000584	J	0.000366	0.00179
Methylene bromide		0.000500	U	0.000500	0.00179
Methylene Chloride		0.000768	U	0.000768	0.00894
4-Methyl-2-pentanone (MIBK)		0.00170	U	0.00170	0.0447
Methyl tert butyl ether		0.000858	U	0.000858	0.00179
m,p-Xylene		0.000917	J	0.000500	0.00357
Naphthalene		0.00152	U	0.00152	0.00447
n-Butylbenzene		0.000876	U	0.000876	0.00179
N-Propylbenzene		0.000599	U	0.000599	0.00179
o-Chlorotoluene		0.000795	U	0.000795	0.00179
o-Xylene		0.000599	U	0.000599	0.00179
p-Chlorotoluene		0.000751	U	0.000751	0.00179

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 457

Lab Sample ID: 490-117346-13 Date Sampled: 11/29/2016 0930
Client Matrix: Solid % Moisture: 9.8 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392216	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-38.D
Dilution:	1.0			Initial Weight/Volume:	6.207 g
Analysis Date:	12/07/2016 0514			Final Weight/Volume:	5.0 mL
Prep Date:	11/29/2016 0930				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000599	U	0.000599	0.00179
sec-Butylbenzene		0.000894	J	0.000599	0.00179
Styrene		0.000983	U	0.000983	0.00179
tert-Butylbenzene		0.000804	U	0.000804	0.00179
1,1,1,2-Tetrachloroethane		0.000599	U	0.000599	0.00179
1,1,2,2-Tetrachloroethane		0.000894	U	0.000894	0.00179
Tetrachloroethene		0.000652	U	0.000652	0.00179
Toluene		0.000685	J	0.000661	0.00179
trans-1,2-Dichloroethene		0.000599	U	0.000599	0.00179
trans-1,3-Dichloropropene		0.000599	U	0.000599	0.00179
1,2,3-Trichlorobenzene		0.000340	U	0.000340	0.00179
1,2,4-Trichlorobenzene		0.000599	U	0.000599	0.00179
1,1,1-Trichloroethane		0.000822	U	0.000822	0.00179
1,1,2-Trichloroethane		0.00125	U	0.00125	0.00447
Trichloroethene		0.000858	U	0.000858	0.00179
Trichlorofluoromethane		0.000894	U	0.000894	0.00179
1,2,3-Trichloropropane		0.000491	U	0.000491	0.00179
1,2,4-Trimethylbenzene		0.00230		0.000894	0.00179
1,3,5-Trimethylbenzene		0.00102	J	0.000670	0.00179
Vinyl acetate		0.00393	U	0.00393	0.0179
Vinyl chloride		0.000983	U	0.000983	0.00179
Xylenes (total)		0.00110	U	0.00110	0.00536

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	111		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 457

Lab Sample ID: 490-117346-13 Date Sampled: 11/29/2016 0930
Client Matrix: Solid % Moisture: 9.8 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392216	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-38.D
Dilution:	1.0			Initial Weight/Volume:	6.207 g
Analysis Date:	12/07/2016 0514			Final Weight/Volume:	5.0 mL
Prep Date:	11/29/2016 0930				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
96-37-7	Cyclopentane, methyl-	3.67	0.0342	J N
110-82-7	Cyclohexane	4.12	0.0310	
589-34-4	Hexane, 3-methyl-	4.20	0.0287	J N
872-56-0	Isopropylcyclobutane	4.45	0.0874	J N
108-87-2	Methylcyclohexane	4.94	0.211	
16883-48-0	Cyclopentane, 1,2,4-trimethyl-, (1.alpha.,2.beta.,4.alpha.)-	5.12	0.0306	J N
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.97	0.0384	J N
2207-04-7	Cyclohexane, 1,4-dimethyl-, trans-	6.06	0.0649	J N
1678-91-7	Cyclohexane, ethyl-	6.45	0.0974	J N
1678-92-8	Cyclohexane, propyl-	7.70	0.0347	J N

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 456

Lab Sample ID: 490-117346-14 Date Sampled: 11/29/2016 0915
Client Matrix: Solid % Moisture: 11.6 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392216	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-39.D
Dilution:	1.0			Initial Weight/Volume:	6.256 g
Analysis Date:	12/07/2016 0545			Final Weight/Volume:	5.0 mL
Prep Date:	11/29/2016 0915				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0273	J	0.00759	0.0452
Benzene		0.00118	J	0.000606	0.00181
Bromobenzene		0.000651	U	0.000651	0.00181
Bromochloromethane		0.000497	U	0.000497	0.00181
Bromodichloromethane		0.000497	U	0.000497	0.00181
Bromoform		0.000497	U	0.000497	0.00181
Bromomethane		0.00108	U	0.00108	0.00181
2-Butanone (MEK)		0.00489	J	0.00461	0.0452
Carbon disulfide		0.00325	U	0.00325	0.00452
Carbon tetrachloride		0.000606	U	0.000606	0.00181
Chlorobenzene		0.000606	U	0.000606	0.00181
Chloroethane		0.00172	U	0.00172	0.00452
Chloroform		0.000606	U	0.000606	0.00181
Chloromethane		0.000606	U	0.000606	0.00181
cis-1,2-Dichloroethene		0.000606	U	0.000606	0.00181
cis-1,3-Dichloropropene		0.000606	U	0.000606	0.00181
Dibromochloromethane		0.000307	U	0.000307	0.00181
1,2-Dibromo-3-chloropropane		0.000633	U	0.000633	0.00452
1,2-Dibromoethane		0.000904	U	0.000904	0.00181
1,2-Dichlorobenzene		0.000307	U	0.000307	0.00181
1,3-Dichlorobenzene		0.000606	U	0.000606	0.00181
1,4-Dichlorobenzene		0.000606	U	0.000606	0.00181
Dichlorodifluoromethane		0.000904	U	0.000904	0.00181
1,1-Dichloroethane		0.000606	U	0.000606	0.00181
1,2-Dichloroethane		0.000606	U	0.000606	0.00181
1,1-Dichloroethene		0.000515	U	0.000515	0.00181
1,2-Dichloropropane		0.000850	U	0.000850	0.00181
1,3-Dichloropropane		0.000850	U	0.000850	0.00181
2,2-Dichloropropane		0.000606	U	0.000606	0.00181
1,1-Dichloropropene		0.000461	U	0.000461	0.00181
Ethylbenzene		0.000606	U	0.000606	0.00181
Hexachlorobutadiene		0.00103	U	0.00103	0.00452
2-Hexanone		0.0151	U	0.0151	0.0452
Iodomethane		0.00606	U	0.00606	0.0181
Isopropylbenzene		0.000371	U	0.000371	0.00181
Methylene bromide		0.000506	U	0.000506	0.00181
Methylene Chloride		0.000777	U	0.000777	0.00904
4-Methyl-2-pentanone (MIBK)		0.00172	U	0.00172	0.0452
Methyl tert butyl ether		0.000868	U	0.000868	0.00181
m,p-Xylene		0.000918	J	0.000506	0.00362
Naphthalene		0.00154	U	0.00154	0.00452
n-Butylbenzene		0.000886	U	0.000886	0.00181
N-Propylbenzene		0.000606	U	0.000606	0.00181
o-Chlorotoluene		0.000805	U	0.000805	0.00181
o-Xylene		0.000606	U	0.000606	0.00181
p-Chlorotoluene		0.000759	U	0.000759	0.00181

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 456

Lab Sample ID: 490-117346-14 Date Sampled: 11/29/2016 0915
Client Matrix: Solid % Moisture: 11.6 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392216	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-39.D
Dilution:	1.0			Initial Weight/Volume:	6.256 g
Analysis Date:	12/07/2016 0545			Final Weight/Volume:	5.0 mL
Prep Date:	11/29/2016 0915				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000606	U	0.000606	0.00181
sec-Butylbenzene		0.000606	U	0.000606	0.00181
Styrene		0.000994	U	0.000994	0.00181
tert-Butylbenzene		0.000814	U	0.000814	0.00181
1,1,1,2-Tetrachloroethane		0.000606	U	0.000606	0.00181
1,1,2,2-Tetrachloroethane		0.000904	U	0.000904	0.00181
Tetrachloroethene		0.000660	U	0.000660	0.00181
Toluene		0.000793	J	0.000669	0.00181
trans-1,2-Dichloroethene		0.000606	U	0.000606	0.00181
trans-1,3-Dichloropropene		0.000606	U	0.000606	0.00181
1,2,3-Trichlorobenzene		0.000344	U	0.000344	0.00181
1,2,4-Trichlorobenzene		0.000606	U	0.000606	0.00181
1,1,1-Trichloroethane		0.000832	U	0.000832	0.00181
1,1,2-Trichloroethane		0.00127	U	0.00127	0.00452
Trichloroethene		0.000868	U	0.000868	0.00181
Trichlorofluoromethane		0.000904	U	0.000904	0.00181
1,2,3-Trichloropropane		0.000497	U	0.000497	0.00181
1,2,4-Trimethylbenzene		0.000904	U	0.000904	0.00181
1,3,5-Trimethylbenzene		0.000678	U	0.000678	0.00181
Vinyl acetate		0.00398	U	0.00398	0.0181
Vinyl chloride		0.000994	U	0.000994	0.00181
Xylenes (total)		0.00111	U	0.00111	0.00542

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 456

Lab Sample ID: 490-117346-14 Date Sampled: 11/29/2016 0915
Client Matrix: Solid % Moisture: 11.6 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392216	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-39.D
Dilution:	1.0			Initial Weight/Volume:	6.256 g
Analysis Date:	12/07/2016 0545			Final Weight/Volume:	5.0 mL
Prep Date:	11/29/2016 0915				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
96-37-7	Cyclopentane, methyl-	3.67	0.0120	J N
110-82-7	Cyclohexane	4.13	0.0115	
872-56-0	Isopropylcyclobutane	4.45	0.0298	J N
108-87-2	Methylcyclohexane	4.93	0.0517	
2815-58-9	Cyclopentane, 1,2,4-trimethyl-	5.11	0.0133	J N
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.97	0.0176	J N
	Unknown	6.06	0.0397	J
	Unknown	6.36	0.0209	J
1678-91-7	Cyclohexane, ethyl-	6.44	0.0370	J N
696-29-7	Cyclohexane, (1-methylethyl)-	7.70	0.0148	J N

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 453

Lab Sample ID: 490-117346-15 Date Sampled: 11/29/2016 0900
Client Matrix: Solid % Moisture: 10.1 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-16.D
Dilution:	1.0			Initial Weight/Volume:	5.305 g
Analysis Date:	12/09/2016 1727			Final Weight/Volume:	5.0 mL
Prep Date:	11/29/2016 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0845		0.00881	0.0524
Benzene		0.0136		0.000702	0.00210
Bromobenzene		0.000755	U	0.000755	0.00210
Bromochloromethane		0.000577	U	0.000577	0.00210
Bromodichloromethane		0.000577	U	0.000577	0.00210
Bromoform		0.000577	U	0.000577	0.00210
Bromomethane		0.00126	U	0.00126	0.00210
2-Butanone (MEK)		0.0206	J	0.00535	0.0524
Carbon disulfide		0.00377	U	0.00377	0.00524
Carbon tetrachloride		0.000702	U	0.000702	0.00210
Chlorobenzene		0.000702	U	0.000702	0.00210
Chloroethane		0.00199	U	0.00199	0.00524
Chloroform		0.000702	U	0.000702	0.00210
Chloromethane		0.000702	U	0.000702	0.00210
cis-1,2-Dichloroethene		0.000702	U	0.000702	0.00210
cis-1,3-Dichloropropene		0.000702	U	0.000702	0.00210
Dibromochloromethane		0.000356	U	0.000356	0.00210
1,2-Dibromo-3-chloropropane		0.000734	U	0.000734	0.00524
1,2-Dibromoethane		0.00105	U	0.00105	0.00210
1,2-Dichlorobenzene		0.000356	U	0.000356	0.00210
1,3-Dichlorobenzene		0.000702	U	0.000702	0.00210
1,4-Dichlorobenzene		0.000702	U	0.000702	0.00210
Dichlorodifluoromethane		0.00105	U	0.00105	0.00210
1,1-Dichloroethane		0.000702	U	0.000702	0.00210
1,2-Dichloroethane		0.000702	U	0.000702	0.00210
1,1-Dichloroethene		0.000598	U	0.000598	0.00210
1,2-Dichloropropane		0.000985	U	0.000985	0.00210
1,3-Dichloropropane		0.000985	U	0.000985	0.00210
2,2-Dichloropropane		0.000702	U	0.000702	0.00210
1,1-Dichloropropene		0.000535	U	0.000535	0.00210
Ethylbenzene		0.00715		0.000702	0.00210
Hexachlorobutadiene		0.00120	U	0.00120	0.00524
2-Hexanone		0.0175	U	0.0175	0.0524
Iodomethane		0.00702	U	0.00702	0.0210
Isopropylbenzene		0.0438		0.000430	0.00210
Methylene bromide		0.000587	U	0.000587	0.00210
Methylene Chloride		0.000902	U	0.000902	0.0105
4-Methyl-2-pentanone (MIBK)		0.00199	U	0.00199	0.0524
Methyl tert butyl ether		0.00101	U	0.00101	0.00210
m,p-Xylene		0.0495		0.000587	0.00419
Naphthalene		0.00620		0.00178	0.00524
n-Butylbenzene		0.0163		0.00103	0.00210
N-Propylbenzene		0.0531		0.000702	0.00210
o-Chlorotoluene		0.000933	U	0.000933	0.00210
o-Xylene		0.0103		0.000702	0.00210
p-Chlorotoluene		0.000881	U	0.000881	0.00210

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 453

Lab Sample ID: 490-117346-15 Date Sampled: 11/29/2016 0900
Client Matrix: Solid % Moisture: 10.1 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-16.D
Dilution:	1.0			Initial Weight/Volume:	5.305 g
Analysis Date:	12/09/2016 1727			Final Weight/Volume:	5.0 mL
Prep Date:	11/29/2016 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.00517		0.000702	0.00210
sec-Butylbenzene		0.0356		0.000702	0.00210
Styrene		0.00115	U	0.00115	0.00210
tert-Butylbenzene		0.00695		0.000944	0.00210
1,1,1,2-Tetrachloroethane		0.000702	U	0.000702	0.00210
1,1,2,2-Tetrachloroethane		0.00105	U	0.00105	0.00210
Tetrachloroethene		0.000765	U	0.000765	0.00210
Toluene		0.0112		0.000776	0.00210
trans-1,2-Dichloroethene		0.000702	U	0.000702	0.00210
trans-1,3-Dichloropropene		0.000702	U	0.000702	0.00210
1,2,3-Trichlorobenzene		0.000398	U	0.000398	0.00210
1,2,4-Trichlorobenzene		0.000702	U	0.000702	0.00210
1,1,1-Trichloroethane		0.000964	U	0.000964	0.00210
1,1,2-Trichloroethane		0.00147	U	0.00147	0.00524
Trichloroethene		0.00101	U	0.00101	0.00210
Trichlorofluoromethane		0.00105	U	0.00105	0.00210
1,2,3-Trichloropropane		0.000577	U	0.000577	0.00210
1,2,4-Trimethylbenzene		0.163		0.00105	0.00210
1,3,5-Trimethylbenzene		0.0317		0.000786	0.00210
Vinyl acetate		0.00461	U	0.00461	0.0210
Vinyl chloride		0.00115	U	0.00115	0.00210
Xylenes (total)		0.0598		0.00129	0.00629

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	144	*	70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
Toluene-d8 (Surr)	315	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 453

Lab Sample ID: 490-117346-15 Date Sampled: 11/29/2016 0900
Client Matrix: Solid % Moisture: 10.1 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-16.D
Dilution:	1.0			Initial Weight/Volume:	5.305 g
Analysis Date:	12/09/2016 1727			Final Weight/Volume:	5.0 mL
Prep Date:	11/29/2016 0900				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
96-37-7	Cyclopentane, methyl-	3.67	0.958	J N
110-82-7	Cyclohexane	4.13	0.936	E
108-87-2	Methylcyclohexane	4.95	4.05	E
16883-48-0	Cyclopentane, 1,2,4-trimethyl-, (1.alpha.,2.beta.,4.alpha.)-	5.12	0.740	J N
590-66-9	Cyclohexane, 1,1-dimethyl-	5.82	0.763	J N
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.97	1.05	J N
2207-04-7	Cyclohexane, 1,4-dimethyl-, trans-	6.06	1.12	J N
1678-91-7	Cyclohexane, ethyl-	6.45	2.38	J N
1795-26-2	Cyclohexane, 1,3,5-trimethyl-, (1.alpha.,3.alpha.,5.beta.)-	6.69	0.746	J N
1678-92-8	Cyclohexane, propyl-	7.71	1.38	J N

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 455

Lab Sample ID: 490-117346-16 Date Sampled: 11/29/2016 0915
Client Matrix: Solid % Moisture: 7.4 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392216	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-41.D
Dilution:	1.0			Initial Weight/Volume:	4.312 g
Analysis Date:	12/07/2016 0647			Final Weight/Volume:	5.0 mL
Prep Date:	11/29/2016 0915				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0213	J	0.0105	0.0626
Benzene		0.000839	U	0.000839	0.00250
Bromobenzene		0.000901	U	0.000901	0.00250
Bromochloromethane		0.000689	U	0.000689	0.00250
Bromodichloromethane		0.000689	U	0.000689	0.00250
Bromoform		0.000689	U	0.000689	0.00250
Bromomethane		0.00150	U	0.00150	0.00250
2-Butanone (MEK)		0.00638	U	0.00638	0.0626
Carbon disulfide		0.00451	U	0.00451	0.00626
Carbon tetrachloride		0.000839	U	0.000839	0.00250
Chlorobenzene		0.000839	U	0.000839	0.00250
Chloroethane		0.00238	U	0.00238	0.00626
Chloroform		0.000839	U	0.000839	0.00250
Chloromethane		0.000839	U	0.000839	0.00250
cis-1,2-Dichloroethene		0.000839	U	0.000839	0.00250
cis-1,3-Dichloropropene		0.000839	U	0.000839	0.00250
Dibromochloromethane		0.000426	U	0.000426	0.00250
1,2-Dibromo-3-chloropropane		0.000876	U	0.000876	0.00626
1,2-Dibromoethane		0.00125	U	0.00125	0.00250
1,2-Dichlorobenzene		0.000426	U	0.000426	0.00250
1,3-Dichlorobenzene		0.000839	U	0.000839	0.00250
1,4-Dichlorobenzene		0.000839	U	0.000839	0.00250
Dichlorodifluoromethane		0.00125	U	0.00125	0.00250
1,1-Dichloroethane		0.000839	U	0.000839	0.00250
1,2-Dichloroethane		0.000839	U	0.000839	0.00250
1,1-Dichloroethene		0.000714	U	0.000714	0.00250
1,2-Dichloropropane		0.00118	U	0.00118	0.00250
1,3-Dichloropropane		0.00118	U	0.00118	0.00250
2,2-Dichloropropane		0.000839	U	0.000839	0.00250
1,1-Dichloropropene		0.000638	U	0.000638	0.00250
Ethylbenzene		0.000839	U	0.000839	0.00250
Hexachlorobutadiene		0.00143	U	0.00143	0.00626
2-Hexanone		0.0209	U	0.0209	0.0626
Iodomethane		0.00839	U	0.00839	0.0250
Isopropylbenzene		0.000513	U	0.000513	0.00250
Methylene bromide		0.000701	U	0.000701	0.00250
Methylene Chloride		0.00108	U	0.00108	0.0125
4-Methyl-2-pentanone (MIBK)		0.00238	U	0.00238	0.0626
Methyl tert butyl ether		0.00120	U	0.00120	0.00250
m,p-Xylene		0.000701	U	0.000701	0.00501
Naphthalene		0.00213	U	0.00213	0.00626
n-Butylbenzene		0.00123	U	0.00123	0.00250
N-Propylbenzene		0.000839	U	0.000839	0.00250
o-Chlorotoluene		0.00111	U	0.00111	0.00250
o-Xylene		0.000839	U	0.000839	0.00250
p-Chlorotoluene		0.00105	U	0.00105	0.00250

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 455

Lab Sample ID: 490-117346-16 Date Sampled: 11/29/2016 0915
Client Matrix: Solid % Moisture: 7.4 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392216	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-41.D
Dilution:	1.0			Initial Weight/Volume:	4.312 g
Analysis Date:	12/07/2016 0647			Final Weight/Volume:	5.0 mL
Prep Date:	11/29/2016 0915				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000839	U	0.000839	0.00250
sec-Butylbenzene		0.000839	U	0.000839	0.00250
Styrene		0.00138	U	0.00138	0.00250
tert-Butylbenzene		0.00113	U	0.00113	0.00250
1,1,1,2-Tetrachloroethane		0.000839	U	0.000839	0.00250
1,1,2,2-Tetrachloroethane		0.00125	U	0.00125	0.00250
Tetrachloroethene		0.000914	U	0.000914	0.00250
Toluene		0.000926	U	0.000926	0.00250
trans-1,2-Dichloroethene		0.000839	U	0.000839	0.00250
trans-1,3-Dichloropropene		0.000839	U	0.000839	0.00250
1,2,3-Trichlorobenzene		0.000476	U	0.000476	0.00250
1,2,4-Trichlorobenzene		0.000839	U	0.000839	0.00250
1,1,1-Trichloroethane		0.00115	U	0.00115	0.00250
1,1,2-Trichloroethane		0.00175	U	0.00175	0.00626
Trichloroethene		0.00120	U	0.00120	0.00250
Trichlorofluoromethane		0.00125	U	0.00125	0.00250
1,2,3-Trichloropropane		0.000689	U	0.000689	0.00250
1,2,4-Trimethylbenzene		0.00125	U	0.00125	0.00250
1,3,5-Trimethylbenzene		0.000939	U	0.000939	0.00250
Vinyl acetate		0.00551	U	0.00551	0.0250
Vinyl chloride		0.00138	U	0.00138	0.00250
Xylenes (total)		0.00154	U	0.00154	0.00751

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 455

Lab Sample ID: 490-117346-16 Date Sampled: 11/29/2016 0915
Client Matrix: Solid % Moisture: 7.4 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392216	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-41.D
Dilution:	1.0			Initial Weight/Volume:	4.312 g
Analysis Date:	12/07/2016 0647			Final Weight/Volume:	5.0 mL
Prep Date:	11/29/2016 0915				

Tentatively Identified Compounds **Number TIC's Found: 5**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
110-82-7	Cyclohexane	4.13	0.00230	J
822-50-4	Cyclopentane, 1,2-dimethyl-, trans-	4.44	0.0114	J N
108-87-2	Methylcyclohexane	4.93	0.00547	J
	Unknown	6.49	0.00926	J
1678-92-8	Cyclohexane, propyl-	7.70	0.00895	J N

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 454

Lab Sample ID: 490-117346-17 Date Sampled: 11/29/2016 0900
Client Matrix: Solid % Moisture: 8.8 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392216	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-42.D
Dilution:	1.0			Initial Weight/Volume:	6.436 g
Analysis Date:	12/07/2016 0717			Final Weight/Volume:	5.0 mL
Prep Date:	11/29/2016 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0373	J	0.00715	0.0426
Benzene		0.000570	U	0.000570	0.00170
Bromobenzene		0.000613	U	0.000613	0.00170
Bromochloromethane		0.000468	U	0.000468	0.00170
Bromodichloromethane		0.000468	U	0.000468	0.00170
Bromoform		0.000468	U	0.000468	0.00170
Bromomethane		0.00102	U	0.00102	0.00170
2-Butanone (MEK)		0.00507	J	0.00434	0.0426
Carbon disulfide		0.00307	U	0.00307	0.00426
Carbon tetrachloride		0.000570	U	0.000570	0.00170
Chlorobenzene		0.000570	U	0.000570	0.00170
Chloroethane		0.00162	U	0.00162	0.00426
Chloroform		0.000570	U	0.000570	0.00170
Chloromethane		0.000570	U	0.000570	0.00170
cis-1,2-Dichloroethene		0.000570	U	0.000570	0.00170
cis-1,3-Dichloropropene		0.000570	U	0.000570	0.00170
Dibromochloromethane		0.000289	U	0.000289	0.00170
1,2-Dibromo-3-chloropropane		0.000596	U	0.000596	0.00426
1,2-Dibromoethane		0.000851	U	0.000851	0.00170
1,2-Dichlorobenzene		0.000289	U	0.000289	0.00170
1,3-Dichlorobenzene		0.000570	U	0.000570	0.00170
1,4-Dichlorobenzene		0.000570	U	0.000570	0.00170
Dichlorodifluoromethane		0.000851	U	0.000851	0.00170
1,1-Dichloroethane		0.000570	U	0.000570	0.00170
1,2-Dichloroethane		0.000570	U	0.000570	0.00170
1,1-Dichloroethene		0.000485	U	0.000485	0.00170
1,2-Dichloropropane		0.000800	U	0.000800	0.00170
1,3-Dichloropropane		0.000800	U	0.000800	0.00170
2,2-Dichloropropane		0.000570	U	0.000570	0.00170
1,1-Dichloropropene		0.000434	U	0.000434	0.00170
Ethylbenzene		0.000570	U	0.000570	0.00170
Hexachlorobutadiene		0.000971	U	0.000971	0.00426
2-Hexanone		0.0142	U	0.0142	0.0426
Iodomethane		0.00570	U	0.00570	0.0170
Isopropylbenzene		0.000349	U	0.000349	0.00170
Methylene bromide		0.000477	U	0.000477	0.00170
Methylene Chloride		0.000732	U	0.000732	0.00851
4-Methyl-2-pentanone (MIBK)		0.00162	U	0.00162	0.0426
Methyl tert butyl ether		0.000817	U	0.000817	0.00170
m,p-Xylene		0.000477	U	0.000477	0.00341
Naphthalene		0.00145	U	0.00145	0.00426
n-Butylbenzene		0.000834	U	0.000834	0.00170
N-Propylbenzene		0.000570	U	0.000570	0.00170
o-Chlorotoluene		0.000758	U	0.000758	0.00170
o-Xylene		0.000570	U	0.000570	0.00170
p-Chlorotoluene		0.000715	U	0.000715	0.00170

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 454

Lab Sample ID: 490-117346-17 Date Sampled: 11/29/2016 0900
Client Matrix: Solid % Moisture: 8.8 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392216	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-42.D
Dilution:	1.0			Initial Weight/Volume:	6.436 g
Analysis Date:	12/07/2016 0717			Final Weight/Volume:	5.0 mL
Prep Date:	11/29/2016 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000570	U	0.000570	0.00170
sec-Butylbenzene		0.000570	U	0.000570	0.00170
Styrene		0.000937	U	0.000937	0.00170
tert-Butylbenzene		0.000766	U	0.000766	0.00170
1,1,1,2-Tetrachloroethane		0.000570	U	0.000570	0.00170
1,1,2,2-Tetrachloroethane		0.000851	U	0.000851	0.00170
Tetrachloroethene		0.000622	U	0.000622	0.00170
Toluene		0.000630	U	0.000630	0.00170
trans-1,2-Dichloroethene		0.000570	U	0.000570	0.00170
trans-1,3-Dichloropropene		0.000570	U	0.000570	0.00170
1,2,3-Trichlorobenzene		0.000324	U	0.000324	0.00170
1,2,4-Trichlorobenzene		0.000570	U	0.000570	0.00170
1,1,1-Trichloroethane		0.000783	U	0.000783	0.00170
1,1,2-Trichloroethane		0.00119	U	0.00119	0.00426
Trichloroethene		0.000817	U	0.000817	0.00170
Trichlorofluoromethane		0.000851	U	0.000851	0.00170
1,2,3-Trichloropropane		0.000468	U	0.000468	0.00170
1,2,4-Trimethylbenzene		0.000851	U	0.000851	0.00170
1,3,5-Trimethylbenzene		0.000639	U	0.000639	0.00170
Vinyl acetate		0.00375	U	0.00375	0.0170
Vinyl chloride		0.000937	U	0.000937	0.00170
Xylenes (total)		0.00105	U	0.00105	0.00511

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 454

Lab Sample ID: 490-117346-17 Date Sampled: 11/29/2016 0900
Client Matrix: Solid % Moisture: 8.8 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392216	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-42.D
Dilution:	1.0			Initial Weight/Volume:	6.436 g
Analysis Date:	12/07/2016 0717			Final Weight/Volume:	5.0 mL
Prep Date:	11/29/2016 0900				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
4516-69-2	Cyclopentane, 1,1,3-trimethyl-	4.90	0.0122	J N
2815-58-9	Cyclopentane, 1,2,4-trimethyl-	5.11	0.00624	J N
590-66-9	Cyclohexane, 1,1-dimethyl-	5.82	0.00891	J N
2207-01-4	Cyclohexane, 1,2-dimethyl-, cis-	6.41	0.00649	J N
3073-66-3	Cyclohexane, 1,1,3-trimethyl-	6.49	0.00981	J N
1795-26-2	Cyclohexane, 1,3,5-trimethyl-, (1.alpha.,3.alpha.,5.beta.)-	6.68	0.00687	J N
	Unknown	7.43	0.0102	J
	Unknown	7.65	0.00521	J
	Unknown	7.72	0.00715	J
	Unknown	8.33	0.00718	J

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 458

Lab Sample ID: 490-117346-18 Date Sampled: 11/29/2016 1030
Client Matrix: Solid % Moisture: 20.4 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392216	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-43.D
Dilution:	1.0			Initial Weight/Volume:	6.684 g
Analysis Date:	12/07/2016 0748			Final Weight/Volume:	5.0 mL
Prep Date:	11/29/2016 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0223	J	0.00790	0.0470
Benzene		0.00149	J	0.000630	0.00188
Bromobenzene		0.000677	U	0.000677	0.00188
Bromochloromethane		0.000517	U	0.000517	0.00188
Bromodichloromethane		0.000517	U	0.000517	0.00188
Bromoform		0.000517	U	0.000517	0.00188
Bromomethane		0.00113	U	0.00113	0.00188
2-Butanone (MEK)		0.00479	U	0.00479	0.0470
Carbon disulfide		0.00338	U	0.00338	0.00470
Carbon tetrachloride		0.000630	U	0.000630	0.00188
Chlorobenzene		0.000630	U	0.000630	0.00188
Chloroethane		0.00179	U	0.00179	0.00470
Chloroform		0.000630	U	0.000630	0.00188
Chloromethane		0.000630	U	0.000630	0.00188
cis-1,2-Dichloroethene		0.000630	U	0.000630	0.00188
cis-1,3-Dichloropropene		0.000630	U	0.000630	0.00188
Dibromochloromethane		0.000320	U	0.000320	0.00188
1,2-Dibromo-3-chloropropane		0.000658	U	0.000658	0.00470
1,2-Dibromoethane		0.000940	U	0.000940	0.00188
1,2-Dichlorobenzene		0.000320	U	0.000320	0.00188
1,3-Dichlorobenzene		0.000630	U	0.000630	0.00188
1,4-Dichlorobenzene		0.000630	U	0.000630	0.00188
Dichlorodifluoromethane		0.000940	U	0.000940	0.00188
1,1-Dichloroethane		0.000630	U	0.000630	0.00188
1,2-Dichloroethane		0.000630	U	0.000630	0.00188
1,1-Dichloroethene		0.000536	U	0.000536	0.00188
1,2-Dichloropropane		0.000884	U	0.000884	0.00188
1,3-Dichloropropane		0.000884	U	0.000884	0.00188
2,2-Dichloropropane		0.000630	U	0.000630	0.00188
1,1-Dichloropropene		0.000479	U	0.000479	0.00188
Ethylbenzene		0.000630	U	0.000630	0.00188
Hexachlorobutadiene		0.00107	U	0.00107	0.00470
2-Hexanone		0.0157	U	0.0157	0.0470
Iodomethane		0.00630	U	0.00630	0.0188
Isopropylbenzene		0.000686	J	0.000385	0.00188
Methylene bromide		0.000526	U	0.000526	0.00188
Methylene Chloride		0.00115	J	0.000809	0.00940
4-Methyl-2-pentanone (MIBK)		0.00179	U	0.00179	0.0470
Methyl tert butyl ether		0.000903	U	0.000903	0.00188
m,p-Xylene		0.000753	J	0.000526	0.00376
Naphthalene		0.00160	U	0.00160	0.00470
n-Butylbenzene		0.000921	U	0.000921	0.00188
N-Propylbenzene		0.000630	U	0.000630	0.00188
o-Chlorotoluene		0.000837	U	0.000837	0.00188
o-Xylene		0.000630	U	0.000630	0.00188
p-Chlorotoluene		0.000790	U	0.000790	0.00188

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 458

Lab Sample ID: 490-117346-18 Date Sampled: 11/29/2016 1030
Client Matrix: Solid % Moisture: 20.4 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392216	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-43.D
Dilution:	1.0			Initial Weight/Volume:	6.684 g
Analysis Date:	12/07/2016 0748			Final Weight/Volume:	5.0 mL
Prep Date:	11/29/2016 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000630	U	0.000630	0.00188
sec-Butylbenzene		0.000665	J	0.000630	0.00188
Styrene		0.00103	U	0.00103	0.00188
tert-Butylbenzene		0.000846	U	0.000846	0.00188
1,1,1,2-Tetrachloroethane		0.000630	U	0.000630	0.00188
1,1,2,2-Tetrachloroethane		0.000940	U	0.000940	0.00188
Tetrachloroethene		0.000686	U	0.000686	0.00188
Toluene		0.000696	U	0.000696	0.00188
trans-1,2-Dichloroethene		0.000630	U	0.000630	0.00188
trans-1,3-Dichloropropene		0.000630	U	0.000630	0.00188
1,2,3-Trichlorobenzene		0.000357	U	0.000357	0.00188
1,2,4-Trichlorobenzene		0.000630	U	0.000630	0.00188
1,1,1-Trichloroethane		0.000865	U	0.000865	0.00188
1,1,2-Trichloroethane		0.00132	U	0.00132	0.00470
Trichloroethene		0.000903	U	0.000903	0.00188
Trichlorofluoromethane		0.000940	U	0.000940	0.00188
1,2,3-Trichloropropane		0.000517	U	0.000517	0.00188
1,2,4-Trimethylbenzene		0.000940	U	0.000940	0.00188
1,3,5-Trimethylbenzene		0.000705	U	0.000705	0.00188
Vinyl acetate		0.00414	U	0.00414	0.0188
Vinyl chloride		0.00103	U	0.00103	0.00188
Xylenes (total)		0.00116	U	0.00116	0.00564

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 458

Lab Sample ID: 490-117346-18 Date Sampled: 11/29/2016 1030
Client Matrix: Solid % Moisture: 20.4 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392216	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-43.D
Dilution:	1.0			Initial Weight/Volume:	6.684 g
Analysis Date:	12/07/2016 0748			Final Weight/Volume:	5.0 mL
Prep Date:	11/29/2016 1030				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
	Unknown	1.33	0.0395	J
96-37-7	Cyclopentane, methyl-	3.67	0.0525	J N
110-82-7	Cyclohexane	4.12	0.0483	
589-34-4	Hexane, 3-methyl-	4.20	0.0205	J N
2452-99-5	Cyclopentane, 1,2-dimethyl-	4.45	0.0731	J N
108-87-2	Methylcyclohexane	4.94	0.121	
	Unknown	6.06	0.0572	J
1678-91-7	Cyclohexane, ethyl-	6.45	0.0441	J N
1678-92-8	Cyclohexane, propyl-	7.70	0.0192	J N
	Unknown	8.10	0.0329	J

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 459

Lab Sample ID: 490-117346-12 Date Sampled: 11/29/2016 1030
Client Matrix: Solid % Moisture: 21.3 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-09.D
Dilution:	1.0			Initial Weight/Volume:	30.84 g
Analysis Date:	12/14/2016 1606			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0396	U	0.0396	0.0828
Acenaphthylene		0.0359	U	0.0359	0.0828
Aniline		0.313	U	0.313	0.828
Anthracene		0.0359	U	0.0359	0.0828
Benzidine		0.252	U	0.252	0.412
Benzo(a)anthracene		0.0371	U	0.0371	0.0828
Benzo(a)pyrene		0.0334	U	0.0334	0.0828
Benzo(b)fluoranthene		0.0346	U	0.0346	0.0828
Benzo(g,h,i)perylene		0.0408	U	0.0408	0.0828
Benzoic acid		0.0742	U	0.0742	0.412
Benzo(k)fluoranthene		0.0334	U	0.0334	0.0828
Benzyl alcohol		0.240	U	0.240	0.412
Bis(2-chloroethoxy)methane		0.247	U	0.247	0.412
Bis(2-chloroethyl)ether		0.263	U	0.263	0.412
bis (2-chloroisopropyl) ether		0.245	U	0.245	0.412
Bis(2-ethylhexyl)phthalate		0.256	U	0.256	0.412
4-Bromophenyl phenyl ether		0.253	U	0.253	0.412
Butyl benzyl phthalate		0.266	U	0.266	0.412
Carbazole		0.256	U	0.256	0.412
4-Chloroaniline		0.281	U	0.281	0.412
4-Chloro-3-methylphenol		0.208	U	0.208	0.412
2-Chloronaphthalene		0.258	U	0.258	0.412
2-Chlorophenol		0.236	U	0.236	0.412
4-Chlorophenyl phenyl ether		0.249	U	0.249	0.412
Chrysene		0.0457	U	0.0457	0.0828
Dibenzo(a,h)anthracene		0.0396	U	0.0396	0.0828
Dibenzofuran		0.260	U	0.260	0.412
1,2-Dichlorobenzene		0.235	U	0.235	0.412
1,3-Dichlorobenzene		0.235	U	0.235	0.412
1,4-Dichlorobenzene		0.242	U	0.242	0.412
3,3'-Dichlorobenzidine		0.252	U	0.252	0.828
2,4-Dichlorophenol		0.216	U	0.216	0.412
Diethyl phthalate		0.262	U	0.262	0.412
2,4-Dimethylphenol		0.414	U	0.414	0.828
Dimethyl phthalate		0.256	U	0.256	0.412
Di-n-butyl phthalate		0.261	U	0.261	0.412
4,6-Dinitro-o-cresol		0.283	U *	0.283	0.412
2,4-Dinitrophenol		0.310	U	0.310	0.412
2,4-Dinitrotoluene		0.257	U	0.257	0.412
2,6-Dinitrotoluene		0.276	U	0.276	0.412
Di-n-octyl phthalate		0.220	U	0.220	0.412
1,2-Diphenylhydrazine (as Azobenzene)		0.289	U	0.289	0.412
Fluoranthene		0.0420	U	0.0420	0.0828
Fluorene		0.0359	U	0.0359	0.0828
Hexachlorobenzene		0.309	U	0.309	0.412
Hexachlorobutadiene		0.206	U	0.206	0.412

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 459

Lab Sample ID: 490-117346-12 Date Sampled: 11/29/2016 1030
Client Matrix: Solid % Moisture: 21.3 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-09.D
Dilution:	1.0			Initial Weight/Volume:	30.84 g
Analysis Date:	12/14/2016 1606			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.185	U *	0.185	0.412
Hexachloroethane		0.224	U	0.224	0.412
Ideno(1,2,3-cd)pyrene		0.0359	U	0.0359	0.0828
Isophorone		0.232	U	0.232	0.412
1-Methylnaphthalene		0.0346	U	0.0346	0.0828
2-Methylnaphthalene		0.0321	U	0.0321	0.0828
Naphthalene		0.0359	U	0.0359	0.0828
2-Nitroaniline		0.256	U	0.256	0.412
3-Nitroaniline		0.284	U	0.284	0.828
4-Nitroaniline		0.294	U	0.294	0.828
Nitrobenzene		0.249	U	0.249	0.412
2-Nitrophenol		0.300	U	0.300	0.412
4-Nitrophenol		0.472	U *	0.472	0.828
N-Nitrosodimethylamine		0.0247	U	0.0247	0.412
N-Nitrosodi-n-propylamine		0.240	U	0.240	0.412
N-Nitrosodiphenylamine		0.0655	U	0.0655	0.412
Pentachlorophenol		0.329	U	0.329	0.828
Phenanthrene		0.0420	U	0.0420	0.0828
Phenol		0.251	U	0.251	0.412
Pyrene		0.0420	U	0.0420	0.0828
Pyridine		0.246	U	0.246	0.828
1,2,4-Trichlorobenzene		0.224	U	0.224	0.412
2,4,5-Trichlorophenol		0.270	U	0.270	0.412
2,4,6-Trichlorophenol		0.237	U	0.237	0.412

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	67		29 - 120
2-Fluorophenol (Surr)	61		10 - 120
Nitrobenzene-d5 (Surr)	63		27 - 120
Phenol-d5 (Surr)	65		10 - 120
Terphenyl-d14 (Surr)	80		13 - 120
2,4,6-Tribromophenol (Surr)	79		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 457

Lab Sample ID: 490-117346-13 Date Sampled: 11/29/2016 0930
Client Matrix: Solid % Moisture: 9.8 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-10.D
Dilution:	1.0			Initial Weight/Volume:	30.79 g
Analysis Date:	12/14/2016 1624			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0346	U	0.0346	0.0724
Acenaphthylene		0.0313	U	0.0313	0.0724
Aniline		0.273	U	0.273	0.724
Anthracene		0.0313	U	0.0313	0.0724
Benzidine		0.220	U	0.220	0.360
Benzo(a)anthracene		0.0466	J	0.0324	0.0724
Benzo(a)pyrene		0.0323	J	0.0292	0.0724
Benzo(b)fluoranthene		0.0368	J	0.0303	0.0724
Benzo(g,h,i)perylene		0.0357	U	0.0357	0.0724
Benzoic acid		0.0648	U	0.0648	0.360
Benzo(k)fluoranthene		0.0292	U	0.0292	0.0724
Benzyl alcohol		0.210	U	0.210	0.360
Bis(2-chloroethoxy)methane		0.216	U	0.216	0.360
Bis(2-chloroethyl)ether		0.230	U	0.230	0.360
bis (2-chloroisopropyl) ether		0.214	U	0.214	0.360
Bis(2-ethylhexyl)phthalate		0.224	U	0.224	0.360
4-Bromophenyl phenyl ether		0.222	U	0.222	0.360
Butyl benzyl phthalate		0.232	U	0.232	0.360
Carbazole		0.224	U	0.224	0.360
4-Chloroaniline		0.245	U	0.245	0.360
4-Chloro-3-methylphenol		0.182	U	0.182	0.360
2-Chloronaphthalene		0.226	U	0.226	0.360
2-Chlorophenol		0.206	U	0.206	0.360
4-Chlorophenyl phenyl ether		0.217	U	0.217	0.360
Chrysene		0.0400	U	0.0400	0.0724
Dibenzo(a,h)anthracene		0.0346	U	0.0346	0.0724
Dibenzofuran		0.227	U	0.227	0.360
1,2-Dichlorobenzene		0.205	U	0.205	0.360
1,3-Dichlorobenzene		0.205	U	0.205	0.360
1,4-Dichlorobenzene		0.212	U	0.212	0.360
3,3'-Dichlorobenzidine		0.220	U	0.220	0.724
2,4-Dichlorophenol		0.189	U	0.189	0.360
Diethyl phthalate		0.229	U	0.229	0.360
2,4-Dimethylphenol		0.362	U	0.362	0.724
Dimethyl phthalate		0.224	U	0.224	0.360
Di-n-butyl phthalate		0.228	U	0.228	0.360
4,6-Dinitro-o-cresol		0.247	U *	0.247	0.360
2,4-Dinitrophenol		0.271	U	0.271	0.360
2,4-Dinitrotoluene		0.225	U	0.225	0.360
2,6-Dinitrotoluene		0.241	U	0.241	0.360
Di-n-octyl phthalate		0.192	U	0.192	0.360
1,2-Diphenylhydrazine (as Azobenzene)		0.253	U	0.253	0.360
Fluoranthene		0.0896		0.0367	0.0724
Fluorene		0.0313	U	0.0313	0.0724
Hexachlorobenzene		0.270	U	0.270	0.360
Hexachlorobutadiene		0.180	U	0.180	0.360

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 457

Lab Sample ID: 490-117346-13 Date Sampled: 11/29/2016 0930
Client Matrix: Solid % Moisture: 9.8 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-10.D
Dilution:	1.0			Initial Weight/Volume:	30.79 g
Analysis Date:	12/14/2016 1624			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.162	U *	0.162	0.360
Hexachloroethane		0.196	U	0.196	0.360
Ideno(1,2,3-cd)pyrene		0.0313	U	0.0313	0.0724
Isophorone		0.203	U	0.203	0.360
1-Methylnaphthalene		0.0303	U	0.0303	0.0724
2-Methylnaphthalene		0.0281	U	0.0281	0.0724
Naphthalene		0.0313	U	0.0313	0.0724
2-Nitroaniline		0.224	U	0.224	0.360
3-Nitroaniline		0.249	U	0.249	0.724
4-Nitroaniline		0.257	U	0.257	0.724
Nitrobenzene		0.217	U	0.217	0.360
2-Nitrophenol		0.263	U	0.263	0.360
4-Nitrophenol		0.413	U *	0.413	0.724
N-Nitrosodimethylamine		0.0216	U	0.0216	0.360
N-Nitrosodi-n-propylamine		0.210	U	0.210	0.360
N-Nitrosodiphenylamine		0.0573	U	0.0573	0.360
Pentachlorophenol		0.287	U	0.287	0.724
Phenanthrene		0.0593	J	0.0367	0.0724
Phenol		0.219	U	0.219	0.360
Pyrene		0.0643	J	0.0367	0.0724
Pyridine		0.215	U	0.215	0.724
1,2,4-Trichlorobenzene		0.196	U	0.196	0.360
2,4,5-Trichlorophenol		0.236	U	0.236	0.360
2,4,6-Trichlorophenol		0.208	U	0.208	0.360

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	70		29 - 120
2-Fluorophenol (Surr)	61		10 - 120
Nitrobenzene-d5 (Surr)	60		27 - 120
Phenol-d5 (Surr)	67		10 - 120
Terphenyl-d14 (Surr)	84		13 - 120
2,4,6-Tribromophenol (Surr)	82		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 456

Lab Sample ID: 490-117346-14 Date Sampled: 11/29/2016 0915
Client Matrix: Solid % Moisture: 11.6 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-11.D
Dilution:	1.0			Initial Weight/Volume:	30.15 g
Analysis Date:	12/14/2016 1642			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0360	U	0.0360	0.0754
Acenaphthylene		0.0326	U	0.0326	0.0754
Aniline		0.285	U	0.285	0.754
Anthracene		0.0326	U	0.0326	0.0754
Benzidine		0.230	U	0.230	0.375
Benzo(a)anthracene		0.0338	U	0.0338	0.0754
Benzo(a)pyrene		0.0304	U	0.0304	0.0754
Benzo(b)fluoranthene		0.0315	U	0.0315	0.0754
Benzo(g,h,i)perylene		0.0371	U	0.0371	0.0754
Benzoic acid		0.0675	U	0.0675	0.375
Benzo(k)fluoranthene		0.0304	U	0.0304	0.0754
Benzyl alcohol		0.218	U	0.218	0.375
Bis(2-chloroethoxy)methane		0.225	U	0.225	0.375
Bis(2-chloroethyl)ether		0.240	U	0.240	0.375
bis (2-chloroisopropyl) ether		0.223	U	0.223	0.375
Bis(2-ethylhexyl)phthalate		0.233	U	0.233	0.375
4-Bromophenyl phenyl ether		0.231	U	0.231	0.375
Butyl benzyl phthalate		0.242	U	0.242	0.375
Carbazole		0.233	U	0.233	0.375
4-Chloroaniline		0.255	U	0.255	0.375
4-Chloro-3-methylphenol		0.189	U	0.189	0.375
2-Chloronaphthalene		0.235	U	0.235	0.375
2-Chlorophenol		0.215	U	0.215	0.375
4-Chlorophenyl phenyl ether		0.226	U	0.226	0.375
Chrysene		0.0416	U	0.0416	0.0754
Dibenzo(a,h)anthracene		0.0360	U	0.0360	0.0754
Dibenzofuran		0.236	U	0.236	0.375
1,2-Dichlorobenzene		0.214	U	0.214	0.375
1,3-Dichlorobenzene		0.214	U	0.214	0.375
1,4-Dichlorobenzene		0.221	U	0.221	0.375
3,3'-Dichlorobenzidine		0.230	U	0.230	0.754
2,4-Dichlorophenol		0.197	U	0.197	0.375
Diethyl phthalate		0.239	U	0.239	0.375
2,4-Dimethylphenol		0.377	U	0.377	0.754
Dimethyl phthalate		0.233	U	0.233	0.375
Di-n-butyl phthalate		0.237	U	0.237	0.375
4,6-Dinitro-o-cresol		0.258	U *	0.258	0.375
2,4-Dinitrophenol		0.282	U	0.282	0.375
2,4-Dinitrotoluene		0.234	U	0.234	0.375
2,6-Dinitrotoluene		0.251	U	0.251	0.375
Di-n-octyl phthalate		0.200	U	0.200	0.375
1,2-Diphenylhydrazine (as Azobenzene)		0.263	U	0.263	0.375
Fluoranthene		0.0383	U	0.0383	0.0754
Fluorene		0.0326	U	0.0326	0.0754
Hexachlorobenzene		0.281	U	0.281	0.375
Hexachlorobutadiene		0.188	U	0.188	0.375

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 456

Lab Sample ID: 490-117346-14 Date Sampled: 11/29/2016 0915
Client Matrix: Solid % Moisture: 11.6 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-11.D
Dilution:	1.0			Initial Weight/Volume:	30.15 g
Analysis Date:	12/14/2016 1642			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.169	U *	0.169	0.375
Hexachloroethane		0.204	U	0.204	0.375
Ideno(1,2,3-cd)pyrene		0.0326	U	0.0326	0.0754
Isophorone		0.212	U	0.212	0.375
1-Methylnaphthalene		0.0315	U	0.0315	0.0754
2-Methylnaphthalene		0.0293	U	0.0293	0.0754
Naphthalene		0.0326	U	0.0326	0.0754
2-Nitroaniline		0.233	U	0.233	0.375
3-Nitroaniline		0.259	U	0.259	0.754
4-Nitroaniline		0.268	U	0.268	0.754
Nitrobenzene		0.226	U	0.226	0.375
2-Nitrophenol		0.273	U	0.273	0.375
4-Nitrophenol		0.430	U *	0.430	0.754
N-Nitrosodimethylamine		0.0225	U	0.0225	0.375
N-Nitrosodi-n-propylamine		0.218	U	0.218	0.375
N-Nitrosodiphenylamine		0.0597	U	0.0597	0.375
Pentachlorophenol		0.299	U	0.299	0.754
Phenanthrene		0.0383	U	0.0383	0.0754
Phenol		0.228	U	0.228	0.375
Pyrene		0.0383	U	0.0383	0.0754
Pyridine		0.224	U	0.224	0.754
1,2,4-Trichlorobenzene		0.204	U	0.204	0.375
2,4,5-Trichlorophenol		0.245	U	0.245	0.375
2,4,6-Trichlorophenol		0.216	U	0.216	0.375

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	58		29 - 120
2-Fluorophenol (Surr)	47		10 - 120
Nitrobenzene-d5 (Surr)	53		27 - 120
Phenol-d5 (Surr)	50		10 - 120
Terphenyl-d14 (Surr)	81		13 - 120
2,4,6-Tribromophenol (Surr)	74		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 453

Lab Sample ID: 490-117346-15 Date Sampled: 11/29/2016 0900
Client Matrix: Solid % Moisture: 10.1 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-12.D
Dilution:	1.0			Initial Weight/Volume:	30.06 g
Analysis Date:	12/14/2016 1700			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0355	U	0.0355	0.0744
Acenaphthylene		0.0322	U	0.0322	0.0744
Aniline		0.281	U	0.281	0.744
Anthracene		0.0322	U	0.0322	0.0744
Benzidine		0.226	U	0.226	0.370
Benzo(a)anthracene		0.0333	U	0.0333	0.0744
Benzo(a)pyrene		0.0300	U	0.0300	0.0744
Benzo(b)fluoranthene		0.0311	U	0.0311	0.0744
Benzo(g,h,i)perylene		0.0366	U	0.0366	0.0744
Benzoic acid		0.0666	U	0.0666	0.370
Benzo(k)fluoranthene		0.0300	U	0.0300	0.0744
Benzyl alcohol		0.215	U	0.215	0.370
Bis(2-chloroethoxy)methane		0.222	U	0.222	0.370
Bis(2-chloroethyl)ether		0.236	U	0.236	0.370
bis (2-chloroisopropyl) ether		0.220	U	0.220	0.370
Bis(2-ethylhexyl)phthalate		0.230	U	0.230	0.370
4-Bromophenyl phenyl ether		0.228	U	0.228	0.370
Butyl benzyl phthalate		0.239	U	0.239	0.370
Carbazole		0.230	U	0.230	0.370
4-Chloroaniline		0.252	U	0.252	0.370
4-Chloro-3-methylphenol		0.186	U	0.186	0.370
2-Chloronaphthalene		0.232	U	0.232	0.370
2-Chlorophenol		0.212	U	0.212	0.370
4-Chlorophenyl phenyl ether		0.223	U	0.223	0.370
Chrysene		0.0411	U	0.0411	0.0744
Dibenzo(a,h)anthracene		0.0355	U	0.0355	0.0744
Dibenzofuran		0.233	U	0.233	0.370
1,2-Dichlorobenzene		0.211	U	0.211	0.370
1,3-Dichlorobenzene		0.211	U	0.211	0.370
1,4-Dichlorobenzene		0.218	U	0.218	0.370
3,3'-Dichlorobenzidine		0.226	U	0.226	0.744
2,4-Dichlorophenol		0.194	U	0.194	0.370
Diethyl phthalate		0.235	U	0.235	0.370
2,4-Dimethylphenol		0.372	U	0.372	0.744
Dimethyl phthalate		0.230	U	0.230	0.370
Di-n-butyl phthalate		0.234	U	0.234	0.370
4,6-Dinitro-o-cresol		0.254	U *	0.254	0.370
2,4-Dinitrophenol		0.279	U	0.279	0.370
2,4-Dinitrotoluene		0.231	U	0.231	0.370
2,6-Dinitrotoluene		0.248	U	0.248	0.370
Di-n-octyl phthalate		0.198	U	0.198	0.370
1,2-Diphenylhydrazine (as Azobenzene)		0.260	U	0.260	0.370
Fluoranthene		0.0377	U	0.0377	0.0744
Fluorene		0.0322	U	0.0322	0.0744
Hexachlorobenzene		0.278	U	0.278	0.370
Hexachlorobutadiene		0.185	U	0.185	0.370

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 453

Lab Sample ID: 490-117346-15 Date Sampled: 11/29/2016 0900
Client Matrix: Solid % Moisture: 10.1 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-12.D
Dilution:	1.0			Initial Weight/Volume:	30.06 g
Analysis Date:	12/14/2016 1700			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.167	U *	0.167	0.370
Hexachloroethane		0.201	U	0.201	0.370
Ideno(1,2,3-cd)pyrene		0.0322	U	0.0322	0.0744
Isophorone		0.209	U	0.209	0.370
1-Methylnaphthalene		0.0311	U	0.0311	0.0744
2-Methylnaphthalene		0.0289	U	0.0289	0.0744
Naphthalene		0.0322	U	0.0322	0.0744
2-Nitroaniline		0.230	U	0.230	0.370
3-Nitroaniline		0.255	U	0.255	0.744
4-Nitroaniline		0.264	U	0.264	0.744
Nitrobenzene		0.223	U	0.223	0.370
2-Nitrophenol		0.270	U	0.270	0.370
4-Nitrophenol		0.424	U *	0.424	0.744
N-Nitrosodimethylamine		0.0222	U	0.0222	0.370
N-Nitrosodi-n-propylamine		0.215	U	0.215	0.370
N-Nitrosodiphenylamine		0.0588	U	0.0588	0.370
Pentachlorophenol		0.295	U	0.295	0.744
Phenanthrene		0.0377	U	0.0377	0.0744
Phenol		0.225	U	0.225	0.370
Pyrene		0.0377	U	0.0377	0.0744
Pyridine		0.221	U	0.221	0.744
1,2,4-Trichlorobenzene		0.201	U	0.201	0.370
2,4,5-Trichlorophenol		0.242	U	0.242	0.370
2,4,6-Trichlorophenol		0.213	U	0.213	0.370

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	68		29 - 120
2-Fluorophenol (Surr)	59		10 - 120
Nitrobenzene-d5 (Surr)	61		27 - 120
Phenol-d5 (Surr)	64		10 - 120
Terphenyl-d14 (Surr)	78		13 - 120
2,4,6-Tribromophenol (Surr)	78		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 455

Lab Sample ID: 490-117346-16 Date Sampled: 11/29/2016 0915
Client Matrix: Solid % Moisture: 7.4 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-13.D
Dilution:	1.0			Initial Weight/Volume:	30.93 g
Analysis Date:	12/14/2016 1718			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0335	U	0.0335	0.0702
Acenaphthylene		0.0304	U	0.0304	0.0702
Aniline		0.265	U	0.265	0.702
Anthracene		0.0304	U	0.0304	0.0702
Benzidine		0.214	U	0.214	0.349
Benzo(a)anthracene		0.0314	U	0.0314	0.0702
Benzo(a)pyrene		0.0283	U	0.0283	0.0702
Benzo(b)fluoranthene		0.0293	U	0.0293	0.0702
Benzo(g,h,i)perylene		0.0346	U	0.0346	0.0702
Benzoic acid		0.0628	U	0.0628	0.349
Benzo(k)fluoranthene		0.0283	U	0.0283	0.0702
Benzyl alcohol		0.203	U	0.203	0.349
Bis(2-chloroethoxy)methane		0.209	U	0.209	0.349
Bis(2-chloroethyl)ether		0.223	U	0.223	0.349
bis (2-chloroisopropyl) ether		0.207	U	0.207	0.349
Bis(2-ethylhexyl)phthalate		0.217	U	0.217	0.349
4-Bromophenyl phenyl ether		0.215	U	0.215	0.349
Butyl benzyl phthalate		0.225	U	0.225	0.349
Carbazole		0.217	U	0.217	0.349
4-Chloroaniline		0.238	U	0.238	0.349
4-Chloro-3-methylphenol		0.176	U	0.176	0.349
2-Chloronaphthalene		0.219	U	0.219	0.349
2-Chlorophenol		0.200	U	0.200	0.349
4-Chlorophenyl phenyl ether		0.210	U	0.210	0.349
Chrysene		0.0387	U	0.0387	0.0702
Dibenzo(a,h)anthracene		0.0335	U	0.0335	0.0702
Dibenzofuran		0.220	U	0.220	0.349
1,2-Dichlorobenzene		0.199	U	0.199	0.349
1,3-Dichlorobenzene		0.199	U	0.199	0.349
1,4-Dichlorobenzene		0.205	U	0.205	0.349
3,3'-Dichlorobenzidine		0.214	U	0.214	0.702
2,4-Dichlorophenol		0.183	U	0.183	0.349
Diethyl phthalate		0.222	U	0.222	0.349
2,4-Dimethylphenol		0.351	U	0.351	0.702
Dimethyl phthalate		0.217	U	0.217	0.349
Di-n-butyl phthalate		0.221	U	0.221	0.349
4,6-Dinitro-o-cresol		0.240	U *	0.240	0.349
2,4-Dinitrophenol		0.263	U	0.263	0.349
2,4-Dinitrotoluene		0.218	U	0.218	0.349
2,6-Dinitrotoluene		0.234	U	0.234	0.349
Di-n-octyl phthalate		0.186	U	0.186	0.349
1,2-Diphenylhydrazine (as Azobenzene)		0.245	U	0.245	0.349
Fluoranthene		0.0356	U	0.0356	0.0702
Fluorene		0.0304	U	0.0304	0.0702
Hexachlorobenzene		0.262	U	0.262	0.349
Hexachlorobutadiene		0.175	U	0.175	0.349

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 455

Lab Sample ID: 490-117346-16 Date Sampled: 11/29/2016 0915
Client Matrix: Solid % Moisture: 7.4 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-13.D
Dilution:	1.0			Initial Weight/Volume:	30.93 g
Analysis Date:	12/14/2016 1718			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.157	U *	0.157	0.349
Hexachloroethane		0.190	U	0.190	0.349
Ideno(1,2,3-cd)pyrene		0.0304	U	0.0304	0.0702
Isophorone		0.197	U	0.197	0.349
1-Methylnaphthalene		0.0293	U	0.0293	0.0702
2-Methylnaphthalene		0.0272	U	0.0272	0.0702
Naphthalene		0.0304	U	0.0304	0.0702
2-Nitroaniline		0.217	U	0.217	0.349
3-Nitroaniline		0.241	U	0.241	0.702
4-Nitroaniline		0.249	U	0.249	0.702
Nitrobenzene		0.210	U	0.210	0.349
2-Nitrophenol		0.254	U	0.254	0.349
4-Nitrophenol		0.400	U *	0.400	0.702
N-Nitrosodimethylamine		0.0209	U	0.0209	0.349
N-Nitrosodi-n-propylamine		0.203	U	0.203	0.349
N-Nitrosodiphenylamine		0.0555	U	0.0555	0.349
Pentachlorophenol		0.279	U	0.279	0.702
Phenanthrene		0.0356	U	0.0356	0.0702
Phenol		0.213	U	0.213	0.349
Pyrene		0.0356	U	0.0356	0.0702
Pyridine		0.208	U	0.208	0.702
1,2,4-Trichlorobenzene		0.190	U	0.190	0.349
2,4,5-Trichlorophenol		0.228	U	0.228	0.349
2,4,6-Trichlorophenol		0.201	U	0.201	0.349

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	64		29 - 120
2-Fluorophenol (Surr)	52		10 - 120
Nitrobenzene-d5 (Surr)	59		27 - 120
Phenol-d5 (Surr)	58		10 - 120
Terphenyl-d14 (Surr)	86		13 - 120
2,4,6-Tribromophenol (Surr)	93		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 454

Lab Sample ID: 490-117346-17 Date Sampled: 11/29/2016 0900
Client Matrix: Solid % Moisture: 8.8 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-14.D
Dilution:	1.0			Initial Weight/Volume:	30.12 g
Analysis Date:	12/14/2016 1736			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0349	U	0.0349	0.0731
Acenaphthylene		0.0317	U	0.0317	0.0731
Aniline		0.276	U	0.276	0.731
Anthracene		0.0317	U	0.0317	0.0731
Benzidine		0.223	U	0.223	0.363
Benzo(a)anthracene		0.0327	U	0.0327	0.0731
Benzo(a)pyrene		0.0295	U	0.0295	0.0731
Benzo(b)fluoranthene		0.0306	U	0.0306	0.0731
Benzo(g,h,i)perylene		0.0360	U	0.0360	0.0731
Benzoic acid		0.0655	U	0.0655	0.363
Benzo(k)fluoranthene		0.0295	U	0.0295	0.0731
Benzyl alcohol		0.212	U	0.212	0.363
Bis(2-chloroethoxy)methane		0.218	U	0.218	0.363
Bis(2-chloroethyl)ether		0.233	U	0.233	0.363
bis (2-chloroisopropyl) ether		0.216	U	0.216	0.363
Bis(2-ethylhexyl)phthalate		0.226	U	0.226	0.363
4-Bromophenyl phenyl ether		0.224	U	0.224	0.363
Butyl benzyl phthalate		0.235	U	0.235	0.363
Carbazole		0.226	U	0.226	0.363
4-Chloroaniline		0.248	U	0.248	0.363
4-Chloro-3-methylphenol		0.183	U	0.183	0.363
2-Chloronaphthalene		0.228	U	0.228	0.363
2-Chlorophenol		0.208	U	0.208	0.363
4-Chlorophenyl phenyl ether		0.219	U	0.219	0.363
Chrysene		0.0404	U	0.0404	0.0731
Dibenzo(a,h)anthracene		0.0349	U	0.0349	0.0731
Dibenzofuran		0.229	U	0.229	0.363
1,2-Dichlorobenzene		0.207	U	0.207	0.363
1,3-Dichlorobenzene		0.207	U	0.207	0.363
1,4-Dichlorobenzene		0.214	U	0.214	0.363
3,3'-Dichlorobenzidine		0.223	U	0.223	0.731
2,4-Dichlorophenol		0.191	U	0.191	0.363
Diethyl phthalate		0.231	U	0.231	0.363
2,4-Dimethylphenol		0.366	U	0.366	0.731
Dimethyl phthalate		0.226	U	0.226	0.363
Di-n-butyl phthalate		0.230	U	0.230	0.363
4,6-Dinitro-o-cresol		0.250	U *	0.250	0.363
2,4-Dinitrophenol		0.274	U	0.274	0.363
2,4-Dinitrotoluene		0.227	U	0.227	0.363
2,6-Dinitrotoluene		0.243	U	0.243	0.363
Di-n-octyl phthalate		0.194	U	0.194	0.363
1,2-Diphenylhydrazine (as Azobenzene)		0.255	U	0.255	0.363
Fluoranthene		0.0371	U	0.0371	0.0731
Fluorene		0.0317	U	0.0317	0.0731
Hexachlorobenzene		0.273	U	0.273	0.363
Hexachlorobutadiene		0.182	U	0.182	0.363

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 454

Lab Sample ID: 490-117346-17 Date Sampled: 11/29/2016 0900
Client Matrix: Solid % Moisture: 8.8 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-14.D
Dilution:	1.0			Initial Weight/Volume:	30.12 g
Analysis Date:	12/14/2016 1736			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.164	U *	0.164	0.363
Hexachloroethane		0.198	U	0.198	0.363
Ideno(1,2,3-cd)pyrene		0.0317	U	0.0317	0.0731
Isophorone		0.205	U	0.205	0.363
1-Methylnaphthalene		0.0306	U	0.0306	0.0731
2-Methylnaphthalene		0.0284	U	0.0284	0.0731
Naphthalene		0.0317	U	0.0317	0.0731
2-Nitroaniline		0.226	U	0.226	0.363
3-Nitroaniline		0.251	U	0.251	0.731
4-Nitroaniline		0.260	U	0.260	0.731
Nitrobenzene		0.219	U	0.219	0.363
2-Nitrophenol		0.265	U	0.265	0.363
4-Nitrophenol		0.417	U *	0.417	0.731
N-Nitrosodimethylamine		0.0218	U	0.0218	0.363
N-Nitrosodi-n-propylamine		0.212	U	0.212	0.363
N-Nitrosodiphenylamine		0.0579	U	0.0579	0.363
Pentachlorophenol		0.290	U	0.290	0.731
Phenanthrene		0.0371	U	0.0371	0.0731
Phenol		0.222	U	0.222	0.363
Pyrene		0.0371	U	0.0371	0.0731
Pyridine		0.217	U	0.217	0.731
1,2,4-Trichlorobenzene		0.198	U	0.198	0.363
2,4,5-Trichlorophenol		0.238	U	0.238	0.363
2,4,6-Trichlorophenol		0.210	U	0.210	0.363

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	44		29 - 120
2-Fluorophenol (Surr)	39		10 - 120
Nitrobenzene-d5 (Surr)	38		27 - 120
Phenol-d5 (Surr)	45		10 - 120
Terphenyl-d14 (Surr)	68		13 - 120
2,4,6-Tribromophenol (Surr)	66		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 458

Lab Sample ID: 490-117346-18 Date Sampled: 11/29/2016 1030
Client Matrix: Solid % Moisture: 20.4 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-15.D
Dilution:	1.0			Initial Weight/Volume:	30.60 g
Analysis Date:	12/14/2016 1754			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0394	U	0.0394	0.0826
Acenaphthylene		0.0357	U	0.0357	0.0826
Aniline		0.312	U	0.312	0.826
Anthracene		0.0357	U	0.0357	0.0826
Benzidine		0.251	U	0.251	0.410
Benzo(a)anthracene		0.0370	U	0.0370	0.0826
Benzo(a)pyrene		0.0333	U	0.0333	0.0826
Benzo(b)fluoranthene		0.0345	U	0.0345	0.0826
Benzo(g,h,i)perylene		0.0407	U	0.0407	0.0826
Benzoic acid		0.0739	U	0.0739	0.410
Benzo(k)fluoranthene		0.0333	U	0.0333	0.0826
Benzyl alcohol		0.239	U	0.239	0.410
Bis(2-chloroethoxy)methane		0.246	U	0.246	0.410
Bis(2-chloroethyl)ether		0.262	U	0.262	0.410
bis (2-chloroisopropyl) ether		0.244	U	0.244	0.410
Bis(2-ethylhexyl)phthalate		0.255	U	0.255	0.410
4-Bromophenyl phenyl ether		0.253	U	0.253	0.410
Butyl benzyl phthalate		0.265	U	0.265	0.410
Carbazole		0.255	U	0.255	0.410
4-Chloroaniline		0.280	U	0.280	0.410
4-Chloro-3-methylphenol		0.207	U	0.207	0.410
2-Chloronaphthalene		0.258	U	0.258	0.410
2-Chlorophenol		0.235	U	0.235	0.410
4-Chlorophenyl phenyl ether		0.248	U	0.248	0.410
Chrysene		0.0456	U	0.0456	0.0826
Dibenzo(a,h)anthracene		0.0394	U	0.0394	0.0826
Dibenzofuran		0.259	U	0.259	0.410
1,2-Dichlorobenzene		0.234	U	0.234	0.410
1,3-Dichlorobenzene		0.234	U	0.234	0.410
1,4-Dichlorobenzene		0.242	U	0.242	0.410
3,3'-Dichlorobenzidine		0.251	U	0.251	0.826
2,4-Dichlorophenol		0.216	U	0.216	0.410
Diethyl phthalate		0.261	U	0.261	0.410
2,4-Dimethylphenol		0.413	U	0.413	0.826
Dimethyl phthalate		0.255	U	0.255	0.410
Di-n-butyl phthalate		0.260	U	0.260	0.410
4,6-Dinitro-o-cresol		0.282	U *	0.282	0.410
2,4-Dinitrophenol		0.309	U	0.309	0.410
2,4-Dinitrotoluene		0.256	U	0.256	0.410
2,6-Dinitrotoluene		0.275	U	0.275	0.410
Di-n-octyl phthalate		0.219	U	0.219	0.410
1,2-Diphenylhydrazine (as Azobenzene)		0.288	U	0.288	0.410
Fluoranthene		0.0419	U	0.0419	0.0826
Fluorene		0.0357	U	0.0357	0.0826
Hexachlorobenzene		0.308	U	0.308	0.410
Hexachlorobutadiene		0.206	U	0.206	0.410

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 458

Lab Sample ID: 490-117346-18 Date Sampled: 11/29/2016 1030
Client Matrix: Solid % Moisture: 20.4 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-15.D
Dilution:	1.0			Initial Weight/Volume:	30.60 g
Analysis Date:	12/14/2016 1754			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.185	U *	0.185	0.410
Hexachloroethane		0.223	U	0.223	0.410
Ideno(1,2,3-cd)pyrene		0.0357	U	0.0357	0.0826
Isophorone		0.232	U	0.232	0.410
1-Methylnaphthalene		0.0345	U	0.0345	0.0826
2-Methylnaphthalene		0.0320	U	0.0320	0.0826
Naphthalene		0.0357	U	0.0357	0.0826
2-Nitroaniline		0.255	U	0.255	0.410
3-Nitroaniline		0.283	U	0.283	0.826
4-Nitroaniline		0.293	U	0.293	0.826
Nitrobenzene		0.248	U	0.248	0.410
2-Nitrophenol		0.299	U	0.299	0.410
4-Nitrophenol		0.471	U *	0.471	0.826
N-Nitrosodimethylamine		0.0246	U	0.0246	0.410
N-Nitrosodi-n-propylamine		0.239	U	0.239	0.410
N-Nitrosodiphenylamine		0.0653	U	0.0653	0.410
Pentachlorophenol		0.328	U	0.328	0.826
Phenanthrene		0.0419	U	0.0419	0.0826
Phenol		0.250	U	0.250	0.410
Pyrene		0.0419	U	0.0419	0.0826
Pyridine		0.245	U	0.245	0.826
1,2,4-Trichlorobenzene		0.223	U	0.223	0.410
2,4,5-Trichlorophenol		0.269	U	0.269	0.410
2,4,6-Trichlorophenol		0.237	U	0.237	0.410

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	42		29 - 120
2-Fluorophenol (Surr)	39		10 - 120
Nitrobenzene-d5 (Surr)	39		27 - 120
Phenol-d5 (Surr)	42		10 - 120
Terphenyl-d14 (Surr)	61		13 - 120
2,4,6-Tribromophenol (Surr)	57		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 459

Lab Sample ID: 490-117346-12 Date Sampled: 11/29/2016 1030
Client Matrix: Solid % Moisture: 21.3 Date Received: 12/03/2016 0925

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-393176	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392479	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.496 g
Analysis Date:	12/08/2016 1343			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1327				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6030		12.8	25.6
Antimony		1.28	U	1.28	12.8
Arsenic		5.74		1.54	2.56
Barium		30.6		1.28	2.56
Beryllium		0.256	J	0.256	1.28
Cadmium		0.436	J	0.128	1.28
Calcium		218	J	128	256
Chromium		7.02		1.15	1.28
Cobalt		3.00		1.28	2.56
Copper		37.3		1.41	2.56
Iron		7810		25.6	51.3
Lead		8.41		0.641	1.28
Magnesium		1590		128	256
Manganese		72.6		1.28	3.84
Nickel		10.6		0.769	2.56
Potassium		404		128	256
Selenium		1.41	U	1.41	2.56
Silver		0.513	U	0.513	1.28
Sodium		167	U	167	256
Thallium		0.769	U	0.769	2.56
Vanadium		8.02	J	2.56	12.8
Zinc		67.2		6.41	12.8

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.620 g
Analysis Date:	12/15/2016 1047			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0369	U	0.0369	0.123

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 457

Lab Sample ID: 490-117346-13 Date Sampled: 11/29/2016 0930
Client Matrix: Solid % Moisture: 9.8 Date Received: 12/03/2016 0925

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-393176	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392479	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.504 g
Analysis Date:	12/08/2016 1348			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1327				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4980		11.0	22.0
Antimony		1.10	U	1.10	11.0
Arsenic		6.29		1.32	2.20
Barium		43.5		1.10	2.20
Beryllium		0.286	J	0.220	1.10
Cadmium		0.396	J	0.110	1.10
Calcium		371		110	220
Chromium		6.95		0.990	1.10
Cobalt		5.11		1.10	2.20
Copper		23.7		1.21	2.20
Iron		9760		22.0	44.0
Lead		12.2		0.550	1.10
Magnesium		1360		110	220
Manganese		1900		1.10	3.30
Nickel		12.7		0.660	2.20
Potassium		284		110	220
Selenium		2.00	J	1.21	2.20
Silver		0.440	U	0.440	1.10
Sodium		143	U	143	220
Thallium		0.660	U	0.660	2.20
Vanadium		8.25	J	2.20	11.0
Zinc		64.6		5.50	11.0

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.619 g
Analysis Date:	12/15/2016 1049			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0323	U	0.0323	0.108

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 456

Lab Sample ID: 490-117346-14 Date Sampled: 11/29/2016 0915
Client Matrix: Solid % Moisture: 11.6 Date Received: 12/03/2016 0925

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-393176	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392479	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.515 g
Analysis Date:	12/08/2016 1405			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1327				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5480		11.0	22.0
Antimony		1.10	U	1.10	11.0
Arsenic		5.93		1.32	2.20
Barium		87.4		1.10	2.20
Beryllium		0.286	J	0.220	1.10
Cadmium		0.220	J	0.110	1.10
Calcium		6060		110	220
Chromium		7.58		0.988	1.10
Cobalt		4.85		1.10	2.20
Copper		26.5		1.21	2.20
Iron		11200		22.0	43.9
Lead		13.1		0.549	1.10
Magnesium		1770		110	220
Manganese		563		1.10	3.29
Nickel		11.4		0.659	2.20
Potassium		317		110	220
Selenium		1.67	J	1.21	2.20
Silver		0.439	U	0.439	1.10
Sodium		143	U	143	220
Thallium		0.659	U	0.659	2.20
Vanadium		8.37	J	2.20	11.0
Zinc		40.6		5.49	11.0

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.625 g
Analysis Date:	12/15/2016 1052			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0326	U	0.0326	0.109

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 453

Lab Sample ID: 490-117346-15 Date Sampled: 11/29/2016 0900
Client Matrix: Solid % Moisture: 10.1 Date Received: 12/03/2016 0925

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-393176	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392479	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.518 g
Analysis Date:	12/08/2016 1410			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1327				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4880		10.7	21.5
Antimony		1.07	U	1.07	10.7
Arsenic		5.07		1.29	2.15
Barium		39.1		1.07	2.15
Beryllium		0.258	J	0.215	1.07
Cadmium		0.537	J	0.107	1.07
Calcium		798		107	215
Chromium		7.17		0.966	1.07
Cobalt		4.42		1.07	2.15
Copper		27.3		1.18	2.15
Iron		8350		21.5	42.9
Lead		11.0		0.537	1.07
Magnesium		1600		107	215
Manganese		1570		1.07	3.22
Nickel		13.0		0.644	2.15
Potassium		404		107	215
Selenium		1.18	J	1.18	2.15
Silver		0.429	U	0.429	1.07
Sodium		140	U	140	215
Thallium		0.644	U	0.644	2.15
Vanadium		8.59	J	2.15	10.7
Zinc		68.3		5.37	10.7

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.595 g
Analysis Date:	12/15/2016 1054			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0336	U	0.0336	0.112

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 455

Lab Sample ID: 490-117346-16 Date Sampled: 11/29/2016 0915
Client Matrix: Solid % Moisture: 7.4 Date Received: 12/03/2016 0925

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-393176	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392479	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.514 g
Analysis Date:	12/08/2016 1415			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1327				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6450		10.5	21.0
Antimony		1.05	U	1.05	10.5
Arsenic		6.74		1.26	2.10
Barium		34.8		1.05	2.10
Beryllium		0.315	J	0.210	1.05
Cadmium		0.231	J	0.105	1.05
Calcium		105	U	105	210
Chromium		6.93		0.945	1.05
Cobalt		5.00		1.05	2.10
Copper		50.3		1.16	2.10
Iron		11200		21.0	42.0
Lead		12.8		0.525	1.05
Magnesium		1500		105	210
Manganese		696		1.05	3.15
Nickel		11.5		0.630	2.10
Potassium		333		105	210
Selenium		1.26	J	1.16	2.10
Silver		0.420	U	0.420	1.05
Sodium		137	U	137	210
Thallium		0.630	U	0.630	2.10
Vanadium		9.07	J	2.10	10.5
Zinc		52.4		5.25	10.5

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.620 g
Analysis Date:	12/15/2016 1057			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0313	U	0.0313	0.104

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 454

Lab Sample ID: 490-117346-17 Date Sampled: 11/29/2016 0900
Client Matrix: Solid % Moisture: 8.8 Date Received: 12/03/2016 0925

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-393176	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392479	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.504 g
Analysis Date:	12/08/2016 1420			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1327				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7210		10.9	21.7
Antimony		1.09	U	1.09	10.9
Arsenic		7.68		1.30	2.17
Barium		37.2		1.09	2.17
Beryllium		0.370	J	0.217	1.09
Cadmium		0.217	J	0.109	1.09
Calcium		109	U	109	217
Chromium		9.26		0.979	1.09
Cobalt		6.11		1.09	2.17
Copper		34.4		1.20	2.17
Iron		14000		21.7	43.5
Lead		11.7		0.544	1.09
Magnesium		1860		109	217
Manganese		572		1.09	3.26
Nickel		15.5		0.652	2.17
Potassium		295		109	217
Selenium		1.78	J	1.20	2.17
Silver		0.435	U	0.435	1.09
Sodium		141	U	141	217
Thallium		0.652	U	0.652	2.17
Vanadium		11.9		2.17	10.9
Zinc		44.9		5.44	10.9

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.597 g
Analysis Date:	12/15/2016 1104			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0330	U	0.0330	0.110

Client: Roux Associates, Inc. Job Number: 490-117346-2

Client Sample ID: END 458

Lab Sample ID: 490-117346-18 Date Sampled: 11/29/2016 1030
Client Matrix: Solid % Moisture: 20.4 Date Received: 12/03/2016 0925

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-393176	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392479	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.509 g
Analysis Date:	12/08/2016 1425			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1327				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6860		12.3	24.7
Antimony		1.23	U	1.23	12.3
Arsenic		5.63		1.48	2.47
Barium		60.0		1.23	2.47
Beryllium		0.321	J	0.247	1.23
Cadmium		0.370	J	0.123	1.23
Calcium		1230		123	247
Chromium		9.21		1.11	1.23
Cobalt		5.23		1.23	2.47
Copper		27.5		1.36	2.47
Iron		12000		24.7	49.4
Lead		11.4		0.617	1.23
Magnesium		1990		123	247
Manganese		1350		1.23	3.70
Nickel		13.5		0.741	2.47
Potassium		468		123	247
Selenium		1.65	J	1.36	2.47
Silver		0.494	U	0.494	1.23
Sodium		160	U	160	247
Thallium		0.741	U	0.741	2.47
Vanadium		11.1	J	2.47	12.3
Zinc		64.8		6.17	12.3

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.619 g
Analysis Date:	12/15/2016 1107			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0365	U	0.0365	0.122

General Chemistry

Client Sample ID: **END 459**

Lab Sample ID: 490-117346-12 Date Sampled: 11/29/2016 1030
Client Matrix: Solid Date Received: 12/03/2016 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	78.7		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392389 Analysis Date: 12/07/2016 1036 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 457**

Lab Sample ID: 490-117346-13 Date Sampled: 11/29/2016 0930
Client Matrix: Solid Date Received: 12/03/2016 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	90.2		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392389 Analysis Date: 12/07/2016 1036 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 456**

Lab Sample ID: 490-117346-14 Date Sampled: 11/29/2016 0915
Client Matrix: Solid Date Received: 12/03/2016 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	88.4		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392389 Analysis Date: 12/07/2016 1036 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 453**

Lab Sample ID: 490-117346-15 Date Sampled: 11/29/2016 0900
Client Matrix: Solid Date Received: 12/03/2016 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	89.9		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392389 Analysis Date: 12/07/2016 1036 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 455**

Lab Sample ID: 490-117346-16 Date Sampled: 11/29/2016 0915
Client Matrix: Solid Date Received: 12/03/2016 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	92.6		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392389 Analysis Date: 12/07/2016 1036 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 454**

Lab Sample ID: 490-117346-17 Date Sampled: 11/29/2016 0900
Client Matrix: Solid Date Received: 12/03/2016 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	91.2		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392389 Analysis Date: 12/07/2016 1036 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 458**

Lab Sample ID: 490-117346-18 Date Sampled: 11/29/2016 1030
Client Matrix: Solid Date Received: 12/03/2016 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	79.6		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392389 Analysis Date: 12/07/2016 1036 DryWt Corrected: N

DATA REPORTING QUALIFIERS

Client: Roux Associates, Inc. Job Number: 490-117346-2

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Analyzed for but not detected.
	E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.
	*	Duplicate RPD exceeds control limits
	J	Indicates an estimated value.
	*	ISTD response or retention time outside acceptable limits
	*	LCS or LCSD is outside acceptance limits.
	*	MS or MSD is outside acceptance limits.
	*	Surrogate is outside acceptance limits.
	N	This flag indicates the presumptive evidence of a compound.
GC/MS Semi VOA		
	U	Analyzed for but not detected.
	J	Indicates an estimated value.
	*	LCS or LCSD is outside acceptance limits.
	*	MS or MSD is outside acceptance limits.
Metals		
	U	Indicates analyzed for but not detected.
	J	Sample result is greater than the MDL but below the CRDL

QUALITY CONTROL RESULTS

Client: Roux Associates, Inc. Job Number: 490-117346-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 490-391700					
490-117346-A-29-A MS	Matrix Spike	T	Solid	5035A	
490-117346-A-29-B MSD	Matrix Spike Duplicate	T	Solid	5035A	
Prep Batch: 490-391835					
490-117346-12	END 459	T	Solid	5035A	
490-117346-13	END 457	T	Solid	5035A	
490-117346-14	END 456	T	Solid	5035A	
490-117346-15	END 453	T	Solid	5035A	
490-117346-16	END 455	T	Solid	5035A	
490-117346-17	END 454	T	Solid	5035A	
490-117346-18	END 458	T	Solid	5035A	
Analysis Batch:490-392216					
LCS 490-392216/4	Lab Control Sample	T	Solid	8260C	
LCSD 490-392216/5	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-392216/7	Method Blank	T	Solid	8260C	
490-117346-13	END 457	T	Solid	8260C	490-391835
490-117346-14	END 456	T	Solid	8260C	490-391835
490-117346-16	END 455	T	Solid	8260C	490-391835
490-117346-17	END 454	T	Solid	8260C	490-391835
490-117346-18	END 458	T	Solid	8260C	490-391835
490-117346-A-29-A MS	Matrix Spike	T	Solid	8260C	490-391700
490-117346-A-29-B MSD	Matrix Spike Duplicate	T	Solid	8260C	490-391700
Analysis Batch:490-393067					
LCS 490-393067/4	Lab Control Sample	T	Solid	8260C	
LCSD 490-393067/5	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-393067/7	Method Blank	T	Solid	8260C	
490-117346-A-4-C MS	Matrix Spike	T	Solid	8260C	490-393278
490-117346-A-4-D MSD	Matrix Spike Duplicate	T	Solid	8260C	490-393278
490-117346-12	END 459	T	Solid	8260C	490-391835
490-117346-15	END 453	T	Solid	8260C	490-391835
Prep Batch: 490-393278					
490-117346-A-4-C MS	Matrix Spike	T	Solid	5035A	
490-117346-A-4-D MSD	Matrix Spike Duplicate	T	Solid	5035A	

Report Basis
T = Total

Client: Roux Associates, Inc. Job Number: 490-117346-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 490-392789					
LCS 490-392789/2-A	Lab Control Sample	T	Solid	3550C	
MB 490-392789/1-A	Method Blank	T	Solid	3550C	
490-117346-12	END 459	T	Solid	3550C	
490-117346-13	END 457	T	Solid	3550C	
490-117346-14	END 456	T	Solid	3550C	
490-117346-15	END 453	T	Solid	3550C	
490-117346-16	END 455	T	Solid	3550C	
490-117346-17	END 454	T	Solid	3550C	
490-117346-18	END 458	T	Solid	3550C	
490-117346-A-25-C MS	Matrix Spike	T	Solid	3550C	
490-117346-A-25-D MSD	Matrix Spike Duplicate	T	Solid	3550C	
Analysis Batch:490-393758					
LCS 490-392789/2-A	Lab Control Sample	T	Solid	8270D	490-392789
MB 490-392789/1-A	Method Blank	T	Solid	8270D	490-392789
Analysis Batch:490-394282					
490-117346-12	END 459	T	Solid	8270D	490-392789
490-117346-13	END 457	T	Solid	8270D	490-392789
490-117346-14	END 456	T	Solid	8270D	490-392789
490-117346-15	END 453	T	Solid	8270D	490-392789
490-117346-16	END 455	T	Solid	8270D	490-392789
490-117346-17	END 454	T	Solid	8270D	490-392789
490-117346-18	END 458	T	Solid	8270D	490-392789
490-117346-A-25-C MS	Matrix Spike	T	Solid	8270D	490-392789
490-117346-A-25-D MSD	Matrix Spike Duplicate	T	Solid	8270D	490-392789

Report Basis
T = Total

Client: Roux Associates, Inc. Job Number: 490-117346-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 490-392479					
LCS 490-392479/2-A	Lab Control Sample	T	Solid	3051A	
MB 490-392479/1-A	Method Blank	T	Solid	3051A	
490-117346-12	END 459	T	Solid	3051A	
490-117346-13	END 457	T	Solid	3051A	
490-117346-14	END 456	T	Solid	3051A	
490-117346-15	END 453	T	Solid	3051A	
490-117346-16	END 455	T	Solid	3051A	
490-117346-17	END 454	T	Solid	3051A	
490-117346-18	END 458	T	Solid	3051A	
490-117454-D-1-B MS	Matrix Spike	T	Solid	3051A	
490-117454-D-1-C MSD	Matrix Spike Duplicate	T	Solid	3051A	
Analysis Batch:490-393176					
LCS 490-392479/2-A	Lab Control Sample	T	Solid	6010C	490-392479
MB 490-392479/1-A	Method Blank	T	Solid	6010C	490-392479
490-117346-12	END 459	T	Solid	6010C	490-392479
490-117346-13	END 457	T	Solid	6010C	490-392479
490-117346-14	END 456	T	Solid	6010C	490-392479
490-117346-15	END 453	T	Solid	6010C	490-392479
490-117346-16	END 455	T	Solid	6010C	490-392479
490-117346-17	END 454	T	Solid	6010C	490-392479
490-117346-18	END 458	T	Solid	6010C	490-392479
490-117454-D-1-B MS	Matrix Spike	T	Solid	6010C	490-392479
490-117454-D-1-C MSD	Matrix Spike Duplicate	T	Solid	6010C	490-392479
Prep Batch: 490-394265					
LCS 490-394265/2-A	Lab Control Sample	T	Solid	7471B	
MB 490-394265/1-A	Method Blank	T	Solid	7471B	
490-117346-A-1-G MS	Matrix Spike	T	Solid	7471B	
490-117346-A-1-H MSD	Matrix Spike Duplicate	T	Solid	7471B	
490-117346-12	END 459	T	Solid	7471B	
490-117346-13	END 457	T	Solid	7471B	
490-117346-14	END 456	T	Solid	7471B	
490-117346-15	END 453	T	Solid	7471B	
490-117346-16	END 455	T	Solid	7471B	
490-117346-17	END 454	T	Solid	7471B	
490-117346-18	END 458	T	Solid	7471B	

Client: Roux Associates, Inc. Job Number: 490-117346-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:490-394618					
LCS 490-394265/2-A	Lab Control Sample	T	Solid	7471B	490-394265
MB 490-394265/1-A	Method Blank	T	Solid	7471B	490-394265
490-117346-A-1-G MS	Matrix Spike	T	Solid	7471B	490-394265
490-117346-A-1-H MSD	Matrix Spike Duplicate	T	Solid	7471B	490-394265
490-117346-12	END 459	T	Solid	7471B	490-394265
490-117346-13	END 457	T	Solid	7471B	490-394265
490-117346-14	END 456	T	Solid	7471B	490-394265
490-117346-15	END 453	T	Solid	7471B	490-394265
490-117346-16	END 455	T	Solid	7471B	490-394265
490-117346-17	END 454	T	Solid	7471B	490-394265
490-117346-18	END 458	T	Solid	7471B	490-394265

Report Basis
T = Total

General Chemistry					
Analysis Batch:490-392389					
490-117346-A-7 DU	Duplicate	T	Solid	Moisture	
490-117346-12	END 459	T	Solid	Moisture	
490-117346-13	END 457	T	Solid	Moisture	
490-117346-14	END 456	T	Solid	Moisture	
490-117346-15	END 453	T	Solid	Moisture	
490-117346-16	END 455	T	Solid	Moisture	
490-117346-17	END 454	T	Solid	Moisture	
490-117346-18	END 458	T	Solid	Moisture	
490-117346-A-29 MS	Matrix Spike	T	Solid	Moisture	
490-117346-A-29 MSD	Matrix Spike Duplicate	T	Solid	Moisture	

Report Basis
T = Total

Client: Roux Associates, Inc. Job Number: 490-117346-2

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
490-117346-12	END 459	92	99	100	102
490-117346-13	END 457	102	100	101	111
490-117346-14	END 456	105	98	100	102
490-117346-15	END 453	144*	101	102	315*
490-117346-16	END 455	98	97	101	97
490-117346-17	END 454	98	99	101	97
490-117346-18	END 458	95	99	106	101
MB 490-392216/7		103	95	93	98
MB 490-393067/7		90	98	98	94
LCS 490-392216/4		99	95	93	100
LCS 490-393067/4		84	96	99	96
LCSD 490-392216/5		98	99	97	98
LCSD 490-393067/5		84	93	90	98
490-117346-A-29-A MS		136*	98	99	127
490-117346-A-4-C MS		569*	106	111	723*
490-117346-A-29-B MSD		145*	101	103	136*
490-117346-A-4-D MSD		195*	101	102	962*

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	70-130
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130

Client: Roux Associates, Inc. Job Number: 490-117346-2

Surrogate Recovery Report

8270D Semivolatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	FBP %Rec	2FP %Rec	NBZ %Rec	PHL %Rec	TPHL %Rec	TBP %Rec
490-117346-12	END 459	67	61	63	65	80	79
490-117346-13	END 457	70	61	60	67	84	82
490-117346-14	END 456	58	47	53	50	81	74
490-117346-15	END 453	68	59	61	64	78	78
490-117346-16	END 455	64	52	59	58	86	93
490-117346-17	END 454	44	39	38	45	68	66
490-117346-18	END 458	42	39	39	42	61	57
MB 490-392789/1-A		81	60	82	66	97	53
LCS 490-392789/2-A		58	46	51	50	88	84
490-117346-A-25-C MS		44	31	33	37	61	63
490-117346-A-25-D MSD		51	39	42	44	77	76

Surrogate	Acceptance Limits
FBP = 2-Fluorobiphenyl (Surr)	29-120
2FP = 2-Fluorophenol (Surr)	10-120
NBZ = Nitrobenzene-d5 (Surr)	27-120
PHL = Phenol-d5 (Surr)	10-120
TPHL = Terphenyl-d14 (Surr)	13-120
TBP = 2,4,6-Tribromophenol (Surr)	10-120

Client: Roux Associates, Inc. Job Number: 490-117346-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-391700

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-A-29-A MS	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-49.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.17 g
Analysis Date:	12/07/2016 1053			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1509				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-A-29-B MSD	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-50.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.08 g
Analysis Date:	12/07/2016 1124			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1509				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	125	145	10 - 150	14	50		
Benzene	102	94	21 - 150	5	50		
Bromobenzene	137	116	10 - 150	15	50		
Bromochloromethane	104	104	10 - 150	2	50		
Bromodichloromethane	103	102	10 - 150	0	50		
Bromoform	98	87	10 - 150	10	50		
Bromomethane	79	80	10 - 150	4	50		
2-Butanone (MEK)	107	110	10 - 150	4	50		
Carbon disulfide	102	95	10 - 150	5	50		
Carbon tetrachloride	110	108	10 - 150	1	50		
Chlorobenzene	103	95	10 - 150	6	50		
Chloroethane	97	93	10 - 150	3	50		
Chloroform	102	100	10 - 150	1	50		
Chloromethane	79	75	10 - 150	5	50		
cis-1,2-Dichloroethene	105	103	10 - 150	0	50		
cis-1,3-Dichloropropene	110	107	10 - 150	1	50		
Dibromochloromethane	108	103	10 - 150	3	50		
1,2-Dibromo-3-chloropropane	128	95	10 - 150	28	50		
1,2-Dibromoethane	104	98	10 - 150	5	50		
1,2-Dichlorobenzene	101	80	10 - 150	22	50		
1,3-Dichlorobenzene	110	96	10 - 150	12	50		
1,4-Dichlorobenzene	107	91	10 - 150	15	50		
Dichlorodifluoromethane	124	115	10 - 150	6	50		
1,1-Dichloroethane	102	98	10 - 150	2	50		
1,2-Dichloroethane	100	100	24 - 138	2	50		
1,1-Dichloroethene	111	104	10 - 150	5	50		
1,2-Dichloropropane	100	109	10 - 150	10	50		
1,3-Dichloropropane	105	99	10 - 150	3	50		
2,2-Dichloropropane	118	114	10 - 150	2	50		
1,1-Dichloropropene	104	101	10 - 150	1	50		
Ethylbenzene	109	106	10 - 150	1	50		
Hexachlorobutadiene	27	40	10 - 150	43	50		

Client: Roux Associates, Inc. Job Number: 490-117346-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-391700

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-A-29-A MS	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-49.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.17 g
Analysis Date:	12/07/2016 1053			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1509				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-A-29-B MSD	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-50.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.08 g
Analysis Date:	12/07/2016 1124			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1509				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2-Hexanone	109	100	10 - 150	7	50		
Isopropylbenzene	81	98	10 - 150	16	50		
Methylene bromide	98	96	10 - 150	1	50		
Methylene Chloride	526	637	24 - 150	21	50	*	*
4-Methyl-2-pentanone (MIBK)	109	103	10 - 150	4	50		
Methyl tert butyl ether	116	117	10 - 150	3	50		
m,p-Xylene	99	102	10 - 150	4	50		
Naphthalene	53	32	10 - 150	48	50		
n-Butylbenzene	70	91	10 - 150	27	50		
N-Propylbenzene	119	146	10 - 150	18	50		
o-Chlorotoluene	134	134	10 - 150	2	50		
o-Xylene	96	97	10 - 150	2	50		
p-Chlorotoluene	128	119	10 - 150	6	50		
p-Isopropyltoluene	88	114	10 - 150	27	50		
sec-Butylbenzene	84	129	10 - 150	37	50		
Styrene	93	77	10 - 150	17	50		
tert-Butylbenzene	96	126	10 - 150	27	50		
1,1,1,2-Tetrachloroethane	110	105	10 - 150	3	50		
1,1,2,2-Tetrachloroethane	165	165	10 - 150	2	50	*	*
Tetrachloroethene	109	110	10 - 150	2	50		
Toluene	111	109	17 - 150	0	50		
trans-1,2-Dichloroethene	102	97	10 - 150	3	50		
trans-1,3-Dichloropropene	109	103	10 - 150	4	50		
1,2,3-Trichlorobenzene	39	35	10 - 150	9	50		
1,2,4-Trichlorobenzene	49	45	10 - 150	7	50		
1,1,1-Trichloroethane	109	103	10 - 150	4	50		
1,1,2-Trichloroethane	382	655	10 - 150	54	50	*	*
Trichloroethene	106	100	10 - 150	5	50		
Trichlorofluoromethane	114	110	10 - 150	2	50		
1,2,3-Trichloropropane	163	142	10 - 150	12	50	*	
1,2,4-Trimethylbenzene	121	162	10 - 150	19	50		*
1,3,5-Trimethylbenzene	114	141	10 - 150	20	50		

Client: Roux Associates, Inc. Job Number: 490-117346-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-391700

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-A-29-A MS	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-49.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.17 g
Analysis Date:	12/07/2016 1053			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1509				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-A-29-B MSD	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-50.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.08 g
Analysis Date:	12/07/2016 1124			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1509				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Vinyl acetate	174	177	10 - 150	3	50	*	*
Vinyl chloride	103	98	10 - 150	4	50		
Xylenes (total)	98	99	10 - 150	3	50		

Surrogate	MS % Rec		MSD % Rec		Acceptance Limits
4-Bromofluorobenzene (Surr)	136	*	145	*	70 - 130
Dibromofluoromethane (Surr)	98		101		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		103		70 - 130
Toluene-d8 (Surr)	127		136	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-2

Method Blank - Batch: 490-392216

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-392216/7	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-34.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/07/2016 0311	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	0.00840	U	0.00840	0.0500
Benzene	0.000670	U	0.000670	0.00200
Bromobenzene	0.000720	U	0.000720	0.00200
Bromochloromethane	0.000550	U	0.000550	0.00200
Bromodichloromethane	0.000550	U	0.000550	0.00200
Bromoform	0.000550	U	0.000550	0.00200
Bromomethane	0.00120	U	0.00120	0.00200
2-Butanone (MEK)	0.00510	U	0.00510	0.0500
Carbon disulfide	0.00360	U	0.00360	0.00500
Carbon tetrachloride	0.000670	U	0.000670	0.00200
Chlorobenzene	0.000670	U	0.000670	0.00200
Chloroethane	0.00190	U	0.00190	0.00500
Chloroform	0.000670	U	0.000670	0.00200
Chloromethane	0.000670	U	0.000670	0.00200
cis-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
cis-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
Dibromochloromethane	0.000340	U	0.000340	0.00200
1,2-Dibromo-3-chloropropane	0.000700	U	0.000700	0.00500
1,2-Dibromoethane	0.00100	U	0.00100	0.00200
1,2-Dichlorobenzene	0.000340	U	0.000340	0.00200
1,3-Dichlorobenzene	0.000670	U	0.000670	0.00200
1,4-Dichlorobenzene	0.000670	U	0.000670	0.00200
Dichlorodifluoromethane	0.00100	U	0.00100	0.00200
1,1-Dichloroethane	0.000670	U	0.000670	0.00200
1,2-Dichloroethane	0.000670	U	0.000670	0.00200
1,1-Dichloroethene	0.000570	U	0.000570	0.00200
1,2-Dichloropropane	0.000940	U	0.000940	0.00200
1,3-Dichloropropane	0.000940	U	0.000940	0.00200
2,2-Dichloropropane	0.000670	U	0.000670	0.00200
1,1-Dichloropropene	0.000510	U	0.000510	0.00200
Ethylbenzene	0.000670	U	0.000670	0.00200
Hexachlorobutadiene	0.00114	U	0.00114	0.00500
2-Hexanone	0.0167	U	0.0167	0.0500
Iodomethane	0.00670	U	0.00670	0.0200
Isopropylbenzene	0.000410	U	0.000410	0.00200
Methylene bromide	0.000560	U	0.000560	0.00200
Methylene Chloride	0.000860	U	0.000860	0.0100
4-Methyl-2-pentanone (MIBK)	0.00190	U	0.00190	0.0500
Methyl tert butyl ether	0.000960	U	0.000960	0.00200
m,p-Xylene	0.000560	U	0.000560	0.00400
Naphthalene	0.00170	U	0.00170	0.00500
n-Butylbenzene	0.000980	U	0.000980	0.00200
N-Propylbenzene	0.000670	U	0.000670	0.00200
o-Chlorotoluene	0.000890	U	0.000890	0.00200
o-Xylene	0.000670	U	0.000670	0.00200

Client: Roux Associates, Inc. Job Number: 490-117346-2

Method Blank - Batch: 490-392216

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-392216/7	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-34.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/07/2016 0311	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.000840	U	0.000840	0.00200
p-Isopropyltoluene	0.000670	U	0.000670	0.00200
sec-Butylbenzene	0.000670	U	0.000670	0.00200
Styrene	0.00110	U	0.00110	0.00200
tert-Butylbenzene	0.000900	U	0.000900	0.00200
1,1,1,2-Tetrachloroethane	0.000670	U	0.000670	0.00200
1,1,2,2-Tetrachloroethane	0.00100	U	0.00100	0.00200
Tetrachloroethene	0.000730	U	0.000730	0.00200
Toluene	0.000740	U	0.000740	0.00200
trans-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
trans-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
1,2,3-Trichlorobenzene	0.0005619	J	0.000380	0.00200
1,2,4-Trichlorobenzene	0.000670	U	0.000670	0.00200
1,1,1-Trichloroethane	0.000920	U	0.000920	0.00200
1,1,2-Trichloroethane	0.00140	U	0.00140	0.00500
Trichloroethene	0.000960	U	0.000960	0.00200
Trichlorofluoromethane	0.00100	U	0.00100	0.00200
1,2,3-Trichloropropane	0.000550	U	0.000550	0.00200
1,2,4-Trimethylbenzene	0.00100	U	0.00100	0.00200
1,3,5-Trimethylbenzene	0.000750	U	0.000750	0.00200
Vinyl acetate	0.00440	U	0.00440	0.0200
Vinyl chloride	0.00110	U	0.00110	0.00200
Xylenes (total)	0.00123	U	0.00123	0.00600

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
Dibromofluoromethane (Surr)	95	70 - 130
1,2-Dichloroethane-d4 (Surr)	93	70 - 130
Toluene-d8 (Surr)	98	70 - 130

Method Blank TICs- Batch: 490-392216

Cas Number	Analyte	RT	Est. Result (mg	Qual
91-57-6	2-Methylnaphthalene	12.60	0.004608	J

Client: Roux Associates, Inc. Job Number: 490-117346-2

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-392216

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-392216/4	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-31.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/07/2016 0139	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-392216/5	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-32.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/07/2016 0210	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	85	80	45 - 145	7	38		
Benzene	102	99	70 - 130	3	37		
Bromobenzene	99	93	67 - 130	6	40		
Bromochloromethane	99	101	70 - 133	2	15		
Bromodichloromethane	99	96	70 - 130	3	20		
Bromoform	100	100	59 - 137	0	17		
Bromomethane	67	71	32 - 150	7	45		
2-Butanone (MEK)	97	95	50 - 149	1	39		
Carbon disulfide	96	96	66 - 138	0	41		
Carbon tetrachloride	111	107	70 - 131	4	41		
Chlorobenzene	103	99	70 - 130	4	40		
Chloroethane	108	84	37 - 150	24	50		
Chloroform	98	97	70 - 130	1	15		
Chloromethane	81	82	53 - 150	0	47		
cis-1,2-Dichloroethene	102	101	70 - 132	1	18		
cis-1,3-Dichloropropene	100	96	70 - 130	4	42		
Dibromochloromethane	98	96	70 - 130	2	14		
1,2-Dibromo-3-chloropropane	110	106	47 - 144	4	38		
1,2-Dibromoethane	95	95	69 - 130	0	17		
1,2-Dichlorobenzene	105	99	70 - 134	6	40		
1,3-Dichlorobenzene	105	100	69 - 137	4	41		
1,4-Dichlorobenzene	101	96	66 - 134	5	41		
Dichlorodifluoromethane	118	113	32 - 150	4	50		
1,1-Dichloroethane	98	97	70 - 130	1	42		
1,2-Dichloroethane	93	95	65 - 134	3	16		
1,1-Dichloroethene	104	104	70 - 131	1	43		
1,2-Dichloropropane	94	90	70 - 130	3	15		
1,3-Dichloropropane	93	91	70 - 130	2	15		
2,2-Dichloropropane	117	111	57 - 150	5	42		
1,1-Dichloropropene	101	98	70 - 130	3	41		
Ethylbenzene	105	100	70 - 130	5	38		
Hexachlorobutadiene	97	93	64 - 137	5	44		
2-Hexanone	97	96	47 - 148	2	38		
Isopropylbenzene	108	102	70 - 130	5	39		
Methylene bromide	94	93	70 - 130	1	19		

Client: Roux Associates, Inc. Job Number: 490-117346-2

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-392216

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-392216/4	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-31.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/07/2016 0139	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-392216/5	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-32.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/07/2016 0210	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	95	98	69 - 130	2	19		
4-Methyl-2-pentanone (MIBK)	95	90	48 - 150	6	41		
Methyl tert butyl ether	107	110	54 - 145	2	36		
m,p-Xylene	107	101	70 - 130	6	38		
Naphthalene	110	110	55 - 149	0	37		
n-Butylbenzene	102	98	57 - 150	4	39		
N-Propylbenzene	109	102	62 - 150	7	38		
o-Chlorotoluene	107	101	70 - 132	6	41		
o-Xylene	105	100	70 - 130	5	38		
p-Chlorotoluene	101	98	67 - 135	3	41		
p-Isopropyltoluene	109	102	66 - 147	7	38		
sec-Butylbenzene	110	103	68 - 147	6	38		
Styrene	106	102	70 - 131	4	40		
tert-Butylbenzene	109	104	70 - 138	5	38		
1,1,1,2-Tetrachloroethane	107	105	70 - 130	2	41		
1,1,2,2-Tetrachloroethane	92	90	61 - 134	2	16		
Tetrachloroethene	105	99	70 - 130	5	41		
Toluene	103	96	70 - 130	7	40		
trans-1,2-Dichloroethene	98	96	70 - 130	3	41		
trans-1,3-Dichloropropene	100	97	67 - 130	3	41		
1,2,3-Trichlorobenzene	108	99	57 - 146	8	42		
1,2,4-Trichlorobenzene	100	95	47 - 150	5	43		
1,1,1-Trichloroethane	108	106	70 - 130	2	41		
1,1,2-Trichloroethane	88	87	70 - 130	1	17		
Trichloroethene	105	99	70 - 130	6	41		
Trichlorofluoromethane	109	107	53 - 150	2	49		
1,2,3-Trichloropropane	92	92	60 - 139	0	16		
1,2,4-Trimethylbenzene	112	106	70 - 140	6	38		
1,3,5-Trimethylbenzene	109	104	69 - 141	5	38		
Vinyl acetate	53	48	10 - 150	11	50		
Vinyl chloride	100	98	63 - 150	2	46		
Xylenes (total)	106	100	70 - 130	6	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	99	98	70 - 130
Dibromofluoromethane (Surr)	95	99	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-2

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93	97	70 - 130
Toluene-d8 (Surr)	100	98	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-2

Method Blank - Batch: 490-393067

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-393067/7	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120916-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/09/2016 1253	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	0.00840	U	0.00840	0.0500
Benzene	0.000670	U	0.000670	0.00200
Bromobenzene	0.000720	U	0.000720	0.00200
Bromochloromethane	0.000550	U	0.000550	0.00200
Bromodichloromethane	0.000550	U	0.000550	0.00200
Bromoform	0.000550	U	0.000550	0.00200
Bromomethane	0.00120	U	0.00120	0.00200
2-Butanone (MEK)	0.00510	U	0.00510	0.0500
Carbon disulfide	0.00360	U	0.00360	0.00500
Carbon tetrachloride	0.000670	U	0.000670	0.00200
Chlorobenzene	0.000670	U	0.000670	0.00200
Chloroethane	0.00190	U	0.00190	0.00500
Chloroform	0.000670	U	0.000670	0.00200
Chloromethane	0.000670	U	0.000670	0.00200
cis-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
cis-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
Dibromochloromethane	0.000340	U	0.000340	0.00200
1,2-Dibromo-3-chloropropane	0.000700	U	0.000700	0.00500
1,2-Dibromoethane	0.00100	U	0.00100	0.00200
1,2-Dichlorobenzene	0.000340	U	0.000340	0.00200
1,3-Dichlorobenzene	0.000670	U	0.000670	0.00200
1,4-Dichlorobenzene	0.000670	U	0.000670	0.00200
Dichlorodifluoromethane	0.00100	U	0.00100	0.00200
1,1-Dichloroethane	0.000670	U	0.000670	0.00200
1,2-Dichloroethane	0.000670	U	0.000670	0.00200
1,1-Dichloroethene	0.000570	U	0.000570	0.00200
1,2-Dichloropropane	0.000940	U	0.000940	0.00200
1,3-Dichloropropane	0.000940	U	0.000940	0.00200
2,2-Dichloropropane	0.000670	U	0.000670	0.00200
1,1-Dichloropropene	0.000510	U	0.000510	0.00200
Ethylbenzene	0.000670	U	0.000670	0.00200
Hexachlorobutadiene	0.00114	U	0.00114	0.00500
2-Hexanone	0.0167	U	0.0167	0.0500
Iodomethane	0.00670	U	0.00670	0.0200
Isopropylbenzene	0.000410	U	0.000410	0.00200
Methylene bromide	0.000560	U	0.000560	0.00200
Methylene Chloride	0.000860	U	0.000860	0.0100
4-Methyl-2-pentanone (MIBK)	0.00190	U	0.00190	0.0500
Methyl tert butyl ether	0.000960	U	0.000960	0.00200
m,p-Xylene	0.000560	U	0.000560	0.00400
Naphthalene	0.00170	U	0.00170	0.00500
n-Butylbenzene	0.000980	U	0.000980	0.00200
N-Propylbenzene	0.000670	U	0.000670	0.00200
o-Chlorotoluene	0.000890	U	0.000890	0.00200
o-Xylene	0.000670	U	0.000670	0.00200

Client: Roux Associates, Inc. Job Number: 490-117346-2

Method Blank - Batch: 490-393067

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-393067/7	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120916-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/09/2016 1253	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.000840	U	0.000840	0.00200
p-Isopropyltoluene	0.000670	U	0.000670	0.00200
sec-Butylbenzene	0.000670	U	0.000670	0.00200
Styrene	0.00110	U	0.00110	0.00200
tert-Butylbenzene	0.000900	U	0.000900	0.00200
1,1,1,2-Tetrachloroethane	0.000670	U	0.000670	0.00200
1,1,2,2-Tetrachloroethane	0.00100	U	0.00100	0.00200
Tetrachloroethene	0.000730	U	0.000730	0.00200
Toluene	0.000740	U	0.000740	0.00200
trans-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
trans-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
1,2,3-Trichlorobenzene	0.000380	U	0.000380	0.00200
1,2,4-Trichlorobenzene	0.000670	U	0.000670	0.00200
1,1,1-Trichloroethane	0.000920	U	0.000920	0.00200
1,1,2-Trichloroethane	0.00140	U	0.00140	0.00500
Trichloroethene	0.000960	U	0.000960	0.00200
Trichlorofluoromethane	0.00100	U	0.00100	0.00200
1,2,3-Trichloropropane	0.000550	U	0.000550	0.00200
1,2,4-Trimethylbenzene	0.00100	U	0.00100	0.00200
1,3,5-Trimethylbenzene	0.000750	U	0.000750	0.00200
Vinyl acetate	0.00440	U	0.00440	0.0200
Vinyl chloride	0.00110	U	0.00110	0.00200
Xylenes (total)	0.00123	U	0.00123	0.00600

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	90	70 - 130
Dibromofluoromethane (Surr)	98	70 - 130
1,2-Dichloroethane-d4 (Surr)	98	70 - 130
Toluene-d8 (Surr)	94	70 - 130

Method Blank TICs- Batch: 490-393067

Cas Number	Analyte	RT	Est. Result (mg	Qual
91-57-6	2-Methylnaphthalene	12.60	0.001745	J
	Tentatively Identified Compound		None	

Client: Roux Associates, Inc. Job Number: 490-117346-2

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-393067

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-393067/4	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120916-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/09/2016 1121	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-393067/5	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120916-05.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/09/2016 1152	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	76	80	45 - 145	4	38		
Benzene	96	101	70 - 130	5	37		
Bromobenzene	87	90	67 - 130	4	40		
Bromochloromethane	102	104	70 - 133	2	15		
Bromodichloromethane	98	98	70 - 130	0	20		
Bromoform	101	100	59 - 137	1	17		
Bromomethane	91	100	32 - 150	9	45		
2-Butanone (MEK)	91	95	50 - 149	3	39		
Carbon disulfide	88	96	66 - 138	10	41		
Carbon tetrachloride	101	107	70 - 131	6	41		
Chlorobenzene	99	104	70 - 130	5	40		
Chloroethane	85	89	37 - 150	5	50		
Chloroform	93	97	70 - 130	4	15		
Chloromethane	67	76	53 - 150	12	47		
cis-1,2-Dichloroethene	99	103	70 - 132	4	18		
cis-1,3-Dichloropropene	93	94	70 - 130	1	42		
Dibromochloromethane	96	99	70 - 130	3	14		
1,2-Dibromo-3-chloropropane	95	100	47 - 144	6	38		
1,2-Dibromoethane	96	95	69 - 130	1	17		
1,2-Dichlorobenzene	103	106	70 - 134	3	40		
1,3-Dichlorobenzene	108	111	69 - 137	3	41		
1,4-Dichlorobenzene	104	108	66 - 134	4	41		
Dichlorodifluoromethane	101	109	32 - 150	7	50		
1,1-Dichloroethane	90	94	70 - 130	4	42		
1,2-Dichloroethane	95	93	65 - 134	2	16		
1,1-Dichloroethene	95	101	70 - 131	6	43		
1,2-Dichloropropane	88	90	70 - 130	2	15		
1,3-Dichloropropane	89	89	70 - 130	0	15		
2,2-Dichloropropane	105	111	57 - 150	5	42		
1,1-Dichloropropene	95	99	70 - 130	4	41		
Ethylbenzene	98	104	70 - 130	6	38		
Hexachlorobutadiene	91	98	64 - 137	7	44		
2-Hexanone	90	91	47 - 148	1	38		
Isopropylbenzene	102	109	70 - 130	6	39		
Methylene bromide	96	92	70 - 130	5	19		

Client: Roux Associates, Inc. Job Number: 490-117346-2

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-393067

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-393067/4	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120916-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/09/2016 1121	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-393067/5	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120916-05.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/09/2016 1152	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	92	93	69 - 130	2	19		
4-Methyl-2-pentanone (MIBK)	89	88	48 - 150	1	41		
Methyl tert butyl ether	106	102	54 - 145	4	36		
m,p-Xylene	99	105	70 - 130	6	38		
Naphthalene	106	101	55 - 149	5	37		
n-Butylbenzene	98	104	57 - 150	5	39		
N-Propylbenzene	95	103	62 - 150	8	38		
o-Chlorotoluene	95	102	70 - 132	7	41		
o-Xylene	100	105	70 - 130	5	38		
p-Chlorotoluene	96	101	67 - 135	6	41		
p-Isopropyltoluene	102	110	66 - 147	7	38		
sec-Butylbenzene	99	106	68 - 147	7	38		
Styrene	103	108	70 - 131	5	40		
tert-Butylbenzene	96	101	70 - 138	5	38		
1,1,1,2-Tetrachloroethane	101	105	70 - 130	4	41		
1,1,2,2-Tetrachloroethane	83	86	61 - 134	3	16		
Tetrachloroethene	104	112	70 - 130	7	41		
Toluene	94	100	70 - 130	6	40		
trans-1,2-Dichloroethene	89	93	70 - 130	5	41		
trans-1,3-Dichloropropene	95	95	67 - 130	0	41		
1,2,3-Trichlorobenzene	111	109	57 - 146	1	42		
1,2,4-Trichlorobenzene	110	109	47 - 150	1	43		
1,1,1-Trichloroethane	100	105	70 - 130	5	41		
1,1,2-Trichloroethane	86	86	70 - 130	0	17		
Trichloroethene	101	106	70 - 130	5	41		
Trichlorofluoromethane	99	103	53 - 150	4	49		
1,2,3-Trichloropropane	84	87	60 - 139	3	16		
1,2,4-Trimethylbenzene	101	106	70 - 140	5	38		
1,3,5-Trimethylbenzene	100	104	69 - 141	4	38		
Vinyl acetate	156	141	10 - 150	11	50	*	
Vinyl chloride	85	91	63 - 150	7	46		
Xylenes (total)	99	105	70 - 130	5	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	84	84	70 - 130
Dibromofluoromethane (Surr)	96	93	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-2

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99	90	70 - 130
Toluene-d8 (Surr)	96	98	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-393278

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-A-4-C MS	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-393278	Lab File ID:	120916-20.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.52 g
Analysis Date:	12/09/2016 1932			Final Weight/Volume:	5.0 mL
Prep Date:	12/09/2016 1655				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-A-4-D MSD	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-393278	Lab File ID:	120916-21.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.07 g
Analysis Date:	12/09/2016 2002			Final Weight/Volume:	5.0 mL
Prep Date:	12/09/2016 1655				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	35	45	10 - 150	9	50		
Benzene	113	106	21 - 150	2	50		
Bromobenzene	213	206	10 - 150	6	50	*	*
Bromochloromethane	111	107	10 - 150	5	50		
Bromodichloromethane	702	343	10 - 150	61	50	*	*
Bromoform	92	96	10 - 150	12	50		
Bromomethane	95	79	10 - 150	11	50		
2-Butanone (MEK)	90	78	10 - 150	5	50		
Carbon disulfide	66	69	10 - 150	9	50		
Carbon tetrachloride	88	91	10 - 150	12	50		
Chlorobenzene	102	103	10 - 150	9	50		
Chloroethane	85	137	10 - 150	55	50		*
Chloroform	202	135	10 - 150	32	50	*	
Chloromethane	75	74	10 - 150	7	50		
cis-1,2-Dichloroethene	108	107	10 - 150	7	50		
cis-1,3-Dichloropropene	135	128	10 - 150	3	50		
Dibromochloromethane	237	174	10 - 150	23	50	*	*
1,2-Dibromo-3-chloropropane	109	127	10 - 150	23	50	*	*
1,2-Dibromoethane	117	116	10 - 150	8	50		
1,2-Dichlorobenzene	69	85	10 - 150	29	50	*	*
1,3-Dichlorobenzene	71	87	10 - 150	29	50	*	*
1,4-Dichlorobenzene	72	87	10 - 150	27	50	*	*
Dichlorodifluoromethane	117	114	10 - 150	7	50		
1,1-Dichloroethane	102	99	10 - 150	5	50		
1,2-Dichloroethane	142	114	24 - 138	13	50	*	
1,1-Dichloroethene	109	106	10 - 150	6	50		
1,2-Dichloropropane	258	227	10 - 150	5	50	*	*
1,3-Dichloropropane	123	119	10 - 150	5	50		
2,2-Dichloropropane	115	116	10 - 150	9	50		
1,1-Dichloropropene	89	97	10 - 150	17	50		
Ethylbenzene	85	82	10 - 150	4	50		
Hexachlorobutadiene	13	16	10 - 150	31	50	*	*

Client: Roux Associates, Inc. Job Number: 490-117346-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-393278

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-A-4-C MS	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-393278	Lab File ID:	120916-20.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.52 g
Analysis Date:	12/09/2016 1932			Final Weight/Volume:	5.0 mL
Prep Date:	12/09/2016 1655				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-A-4-D MSD	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-393278	Lab File ID:	120916-21.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.07 g
Analysis Date:	12/09/2016 2002			Final Weight/Volume:	5.0 mL
Prep Date:	12/09/2016 1655				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2-Hexanone	173	145	10 - 150	9	50	*	
Isopropylbenzene	67	14	10 - 150	21	50		
Methylene bromide	98	93	10 - 150	4	50		
Methylene Chloride	101	152	24 - 150	49	50		*
4-Methyl-2-pentanone (MIBK)	144	148	10 - 150	11	50		
Methyl tert butyl ether	105	114	10 - 150	16	50		
m,p-Xylene	79	59	10 - 150	9	50		
Naphthalene	39	50	10 - 150	14	50	*	*
n-Butylbenzene	56	50	10 - 150	1	50	*	*
N-Propylbenzene	140	88	10 - 150	8	50	*	*
o-Chlorotoluene	114	121	10 - 150	15	50	*	*
o-Xylene	75	62	10 - 150	6	50		
p-Chlorotoluene	139	146	10 - 150	13	50	*	*
p-Isopropyltoluene	44	53	10 - 150	26	50	*	*
sec-Butylbenzene	62	52	10 - 150	3	50	*	*
Styrene	83	86	10 - 150	13	50		
tert-Butylbenzene	55	61	10 - 150	12	50	*	*
1,1,1,2-Tetrachloroethane	98	101	10 - 150	11	50		
1,1,2,2-Tetrachloroethane	1657	1222	10 - 150	22	50	E *	E *
Tetrachloroethene	66	72	10 - 150	18	50		
Toluene	141	139	17 - 150	6	50		
trans-1,2-Dichloroethene	97	100	10 - 150	12	50		
trans-1,3-Dichloropropene	128	123	10 - 150	5	50		
1,2,3-Trichlorobenzene	0	0	10 - 150	NC	50	U *	U *
1,2,4-Trichlorobenzene	0	0	10 - 150	NC	50	U *	U *
1,1,1-Trichloroethane	103	102	10 - 150	7	50		
1,1,2-Trichloroethane	11847	8101	10 - 150	29	50	E *	E *
Trichloroethene	94	97	10 - 150	11	50		
Trichlorofluoromethane	108	107	10 - 150	7	50		
1,2,3-Trichloropropane	553	478	10 - 150	6	50	*	*
1,2,4-Trimethylbenzene	80	88	10 - 150	10	50	*	*
1,3,5-Trimethylbenzene	134	102	10 - 150	6	50	*	*

Client: Roux Associates, Inc. Job Number: 490-117346-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-393278

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-A-4-C MS	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-393278	Lab File ID:	120916-20.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.52 g
Analysis Date:	12/09/2016 1932			Final Weight/Volume:	5.0 mL
Prep Date:	12/09/2016 1655				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-A-4-D MSD	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-393278	Lab File ID:	120916-21.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.07 g
Analysis Date:	12/09/2016 2002			Final Weight/Volume:	5.0 mL
Prep Date:	12/09/2016 1655				5 mL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Vinyl acetate	183	164	10 - 150	3	50	*	*
Vinyl chloride	101	97	10 - 150	4	50		
Xylenes (total)	77	60	10 - 150	8	50		

Surrogate	MS % Rec		MSD % Rec		Acceptance Limits
4-Bromofluorobenzene (Surr)	569	*	195	*	70 - 130
Dibromofluoromethane (Surr)	106		101		70 - 130
1,2-Dichloroethane-d4 (Surr)	111		102		70 - 130
Toluene-d8 (Surr)	723	*	962	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-2

Method Blank - Batch: 490-392789

Method: 8270D
Preparation: 3550C

Lab Sample ID:	MB 490-392789/1-A	Analysis Batch:	490-393758	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	121216-032.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/13/2016 0330	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	0.0320	U	0.0320	0.0670
Acenaphthylene	0.0290	U	0.0290	0.0670
Aniline	0.253	U	0.253	0.670
Anthracene	0.0290	U	0.0290	0.0670
Benzidine	0.204	U	0.204	0.333
Benzo(a)anthracene	0.0300	U	0.0300	0.0670
Benzo(a)pyrene	0.0270	U	0.0270	0.0670
Benzo(b)fluoranthene	0.0280	U	0.0280	0.0670
Benzo(g,h,i)perylene	0.0330	U	0.0330	0.0670
Benzoic acid	0.0600	U	0.0600	0.333
Benzo(k)fluoranthene	0.0270	U	0.0270	0.0670
Benzyl alcohol	0.194	U	0.194	0.333
Bis(2-chloroethoxy)methane	0.200	U	0.200	0.333
Bis(2-chloroethyl)ether	0.213	U	0.213	0.333
bis (2-chloroisopropyl) ether	0.198	U	0.198	0.333
Bis(2-ethylhexyl)phthalate	0.207	U	0.207	0.333
4-Bromophenyl phenyl ether	0.205	U	0.205	0.333
Butyl benzyl phthalate	0.215	U	0.215	0.333
Carbazole	0.207	U	0.207	0.333
4-Chloroaniline	0.227	U	0.227	0.333
4-Chloro-3-methylphenol	0.168	U	0.168	0.333
2-Chloronaphthalene	0.209	U	0.209	0.333
2-Chlorophenol	0.191	U	0.191	0.333
4-Chlorophenyl phenyl ether	0.201	U	0.201	0.333
Chrysene	0.0370	U	0.0370	0.0670
Dibenzo(a,h)anthracene	0.0320	U	0.0320	0.0670
Dibenzofuran	0.210	U	0.210	0.333
1,2-Dichlorobenzene	0.190	U	0.190	0.333
1,3-Dichlorobenzene	0.190	U	0.190	0.333
1,4-Dichlorobenzene	0.196	U	0.196	0.333
3,3'-Dichlorobenzidine	0.204	U	0.204	0.670
2,4-Dichlorophenol	0.175	U	0.175	0.333
Diethyl phthalate	0.212	U	0.212	0.333
2,4-Dimethylphenol	0.335	U	0.335	0.670
Dimethyl phthalate	0.207	U	0.207	0.333
Di-n-butyl phthalate	0.211	U	0.211	0.333
4,6-Dinitro-o-cresol	0.229	U	0.229	0.333
2,4-Dinitrophenol	0.251	U	0.251	0.333
2,4-Dinitrotoluene	0.208	U	0.208	0.333
2,6-Dinitrotoluene	0.223	U	0.223	0.333
Di-n-octyl phthalate	0.178	U	0.178	0.333
1,2-Diphenylhydrazine (as Azobenzene)	0.234	U	0.234	0.333
Fluoranthene	0.0340	U	0.0340	0.0670
Fluorene	0.0290	U	0.0290	0.0670
Hexachlorobenzene	0.250	U	0.250	0.333

Client: Roux Associates, Inc. Job Number: 490-117346-2

Method Blank - Batch: 490-392789

Method: 8270D
Preparation: 3550C

Lab Sample ID:	MB 490-392789/1-A	Analysis Batch:	490-393758	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	121216-032.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/13/2016 0330	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Hexachlorobutadiene	0.167	U	0.167	0.333
Hexachlorocyclopentadiene	0.150	U	0.150	0.333
Hexachloroethane	0.181	U	0.181	0.333
Ideno(1,2,3-cd)pyrene	0.0290	U	0.0290	0.0670
Isophorone	0.188	U	0.188	0.333
1-Methylnaphthalene	0.0280	U	0.0280	0.0670
2-Methylnaphthalene	0.0260	U	0.0260	0.0670
Naphthalene	0.0290	U	0.0290	0.0670
2-Nitroaniline	0.207	U	0.207	0.333
3-Nitroaniline	0.230	U	0.230	0.670
4-Nitroaniline	0.238	U	0.238	0.670
Nitrobenzene	0.201	U	0.201	0.333
2-Nitrophenol	0.243	U	0.243	0.333
4-Nitrophenol	0.382	U	0.382	0.670
N-Nitrosodimethylamine	0.0200	U	0.0200	0.333
N-Nitrosodi-n-propylamine	0.194	U	0.194	0.333
N-Nitrosodiphenylamine	0.0530	U	0.0530	0.333
Pentachlorophenol	0.266	U	0.266	0.670
Phenanthrene	0.0340	U	0.0340	0.0670
Phenol	0.203	U	0.203	0.333
Pyrene	0.0340	U	0.0340	0.0670
Pyridine	0.199	U	0.199	0.670
1,2,4-Trichlorobenzene	0.181	U	0.181	0.333
2,4,5-Trichlorophenol	0.218	U	0.218	0.333
2,4,6-Trichlorophenol	0.192	U	0.192	0.333

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	81	29 - 120
2-Fluorophenol (Surr)	60	10 - 120
Nitrobenzene-d5 (Surr)	82	27 - 120
Phenol-d5 (Surr)	66	10 - 120
Terphenyl-d14 (Surr)	97	13 - 120
2,4,6-Tribromophenol (Surr)	53	10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-2

Lab Control Sample - Batch: 490-392789

Method: 8270D
Preparation: 3550C

Lab Sample ID:	LCS 490-392789/2-A	Analysis Batch:	490-393758	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	121216-033.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/13/2016 0349	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	1.67	1.149	69	36 - 120	
Acenaphthylene	1.67	1.105	66	38 - 120	
Aniline	1.67	0.8249	49	10 - 150	
Anthracene	1.67	1.365	82	46 - 124	
Benzidine	1.67	0.5201	31	10 - 150	
Benzo(a)anthracene	1.67	1.381	83	45 - 120	
Benzo(a)pyrene	1.67	1.340	80	45 - 120	
Benzo(b)fluoranthene	1.67	1.388	83	42 - 120	
Benzo(g,h,i)perylene	1.67	1.431	86	38 - 120	
Benzoic acid	1.67	0.4774	29	10 - 150	
Benzo(k)fluoranthene	1.67	1.442	87	42 - 120	
Benzyl alcohol	1.67	0.8984	54	43 - 131	
Bis(2-chloroethoxy)methane	1.67	0.8746	52	32 - 120	
Bis(2-chloroethyl)ether	1.67	0.9055	54	31 - 120	
bis (2-chloroisopropyl) ether	1.67	0.7364	44	32 - 120	
Bis(2-ethylhexyl)phthalate	1.67	1.401	84	43 - 120	
4-Bromophenyl phenyl ether	1.67	1.403	84	40 - 120	
Butyl benzyl phthalate	1.67	1.421	85	43 - 133	
Carbazole	1.67	1.326	80	44 - 120	
4-Chloroaniline	1.67	1.040	62	35 - 120	
4-Chloro-3-methylphenol	1.67	1.210	73	38 - 120	
2-Chloronaphthalene	1.67	1.021	61	34 - 120	
2-Chlorophenol	1.67	0.8468	51	32 - 120	
4-Chlorophenyl phenyl ether	1.67	1.306	78	42 - 120	
Chrysene	1.67	1.404	84	43 - 120	
Dibenzo(a,h)anthracene	1.67	1.408	84	32 - 128	
Dibenzofuran	1.67	1.181	71	41 - 120	
1,2-Dichlorobenzene	1.67	0.8391	50	33 - 120	
1,3-Dichlorobenzene	1.67	0.8202	49	32 - 120	
1,4-Dichlorobenzene	1.67	0.8170	49	32 - 120	
3,3'-Dichlorobenzidine	1.67	1.183	71	39 - 120	
2,4-Dichlorophenol	1.67	0.9686	58	32 - 120	
Diethyl phthalate	1.67	1.378	83	41 - 122	
2,4-Dimethylphenol	1.67	0.9787	59	32 - 120	
Dimethyl phthalate	1.67	1.271	76	55 - 120	
Di-n-butyl phthalate	1.67	1.409	85	46 - 127	
4,6-Dinitro-o-cresol	3.33	0.7182	22	27 - 134	*
2,4-Dinitrophenol	3.33	0.3829	11	10 - 142	
2,4-Dinitrotoluene	1.67	1.328	80	43 - 120	
2,6-Dinitrotoluene	1.67	1.282	77	43 - 120	
Di-n-octyl phthalate	1.67	1.440	86	40 - 130	

Client: Roux Associates, Inc. Job Number: 490-117346-2

Lab Control Sample - Batch: 490-392789

Method: 8270D
Preparation: 3550C

Lab Sample ID:	LCS 490-392789/2-A	Analysis Batch:	490-393758	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	121216-033.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/13/2016 0349	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,2-Diphenylhydrazine (as Azobenzene)	1.67	1.300	78	10 - 150	
Fluoranthene	1.67	1.333	80	46 - 120	
Fluorene	1.67	1.255	75	42 - 120	
Hexachlorobenzene	1.67	1.512	91	44 - 120	
Hexachlorobutadiene	1.67	0.9341	56	31 - 120	
Hexachlorocyclopentadiene	1.67	0.150	6	24 - 120	U *
Hexachloroethane	1.67	0.7515	45	33 - 120	
Ideno(1,2,3-cd)pyrene	1.67	1.359	82	41 - 121	
Isophorone	1.67	0.9407	56	33 - 120	
1-Methylnaphthalene	1.67	0.9686	58	32 - 120	
2-Methylnaphthalene	1.67	0.9580	57	28 - 120	
Naphthalene	1.67	0.8775	53	32 - 120	
2-Nitroaniline	1.67	1.287	77	40 - 120	
3-Nitroaniline	1.67	1.271	76	42 - 120	
4-Nitroaniline	1.67	1.269	76	43 - 120	
Nitrobenzene	1.67	0.8884	53	26 - 120	
2-Nitrophenol	1.67	0.8692	52	29 - 120	
4-Nitrophenol	3.33	4.930	148	32 - 136	*
N-Nitrosodimethylamine	1.67	0.7043	42	10 - 150	
N-Nitrosodi-n-propylamine	1.67	0.8534	51	35 - 120	
N-Nitrosodiphenylamine	1.42	1.368	97	52 - 140	
Pentachlorophenol	3.33	2.292	69	44 - 134	
Phenanthrene	1.67	1.376	83	45 - 120	
Phenol	1.67	0.8362	50	30 - 120	
Pyrene	1.67	1.457	87	43 - 120	
Pyridine	1.67	0.7751	47	20 - 120	
1,2,4-Trichlorobenzene	1.67	0.8843	53	29 - 120	
2,4,5-Trichlorophenol	1.67	1.262	76	39 - 120	
2,4,6-Trichlorophenol	1.67	1.150	69	39 - 120	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	58	29 - 120
2-Fluorophenol (Surr)	46	10 - 120
Nitrobenzene-d5 (Surr)	51	27 - 120
Phenol-d5 (Surr)	50	10 - 120
Terphenyl-d14 (Surr)	88	13 - 120
2,4,6-Tribromophenol (Surr)	84	10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392789

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-117346-A-25-C MS	Analysis Batch:	490-394282	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	120616-22.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.68 g
Analysis Date:	12/14/2016 1959			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-A-25-D MSD	Analysis Batch:	490-394282	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	120616-23.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.22 g
Analysis Date:	12/14/2016 2017			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	46	56	19 - 120	20	50		
Acenaphthylene	46	55	25 - 120	20	50		
Aniline	33	41	10 - 200	22	50	J	
Anthracene	53	66	28 - 125	23	49		
Benzidine	18	0	5 - 200	NC	50	J	U *
Benzo(a)anthracene	55	69	23 - 120	25	50		
Benzo(a)pyrene	52	67	15 - 128	26	50		
Benzo(b)fluoranthene	59	65	12 - 133	10	50		
Benzo(g,h,i)perylene	57	80	22 - 120	34	50		
Benzoic acid	41	48	10 - 200	17	50		
Benzo(k)fluoranthene	51	75	28 - 120	40	45		
Benzyl alcohol	36	44	10 - 200	22	50		
Bis(2-chloroethoxy)methane	34	42	24 - 120	22	50		
Bis(2-chloroethyl)ether	32	39	22 - 120	22	50		
bis (2-chloroisopropyl) ether	30	37	20 - 120	25	50		
Bis(2-ethylhexyl)phthalate	52	66	26 - 120	25	50		
4-Bromophenyl phenyl ether	53	66	31 - 120	23	37		
Butyl benzyl phthalate	53	69	24 - 133	28	50		
Carbazole	53	65	25 - 123	22	46		
4-Chloroaniline	41	49	26 - 120	19	50		
4-Chloro-3-methylphenol	45	53	21 - 120	19	49		
2-Chloronaphthalene	42	50	24 - 120	19	50		
2-Chlorophenol	35	42	25 - 120	21	50		
4-Chlorophenyl phenyl ether	51	0	26 - 120	NC	50		U *
Chrysene	54	66	20 - 120	22	49		
Dibenzo(a,h)anthracene	56	77	12 - 128	33	50		
Dibenzofuran	47	57	21 - 120	20	50		
1,2-Dichlorobenzene	35	43	10 - 120	23	50		
1,3-Dichlorobenzene	34	41	10 - 120	21	50		
1,4-Dichlorobenzene	34	43	10 - 120	24	50		
3,3'-Dichlorobenzidine	52	57	10 - 120	12	50		
2,4-Dichlorophenol	41	50	17 - 120	20	50		

Client: Roux Associates, Inc. Job Number: 490-117346-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392789

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-117346-A-25-C MS	Analysis Batch:	490-394282	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	120616-22.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.68 g
Analysis Date:	12/14/2016 1959			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-A-25-D MSD	Analysis Batch:	490-394282	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	120616-23.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.22 g
Analysis Date:	12/14/2016 2017			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Diethyl phthalate	48	62	29 - 122	25	45		
2,4-Dimethylphenol	35	42	17 - 120	21	50	J	
Dimethyl phthalate	48	60	30 - 120	24	46		
Di-n-butyl phthalate	51	64	29 - 126	23	49		
4,6-Dinitro-o-cresol	0	0	10 - 134	NC	50	U *	U *
2,4-Dinitrophenol	0	0	10 - 150	NC	50	U *	U *
2,4-Dinitrotoluene	46	62	24 - 121	31	50		
2,6-Dinitrotoluene	46	59	24 - 120	27	50		
Di-n-octyl phthalate	54	71	27 - 130	28	50		
1,2-Diphenylhydrazine (as Azobenzene)	44	55	10 - 200	23	50		
Fluoranthene	53	66	10 - 143	24	50		
Fluorene	51	62	20 - 120	20	50		
Hexachlorobenzene	56	69	25 - 120	23	50		
Hexachlorobutadiene	36	45	10 - 120	22	50		
Hexachlorocyclopentadiene	18	23	10 - 120	27	50	J	
Hexachloroethane	31	39	10 - 120	24	50		
Ideno(1,2,3-cd)pyrene	54	75	22 - 121	34	50		
Isophorone	35	42	24 - 120	20	50		
1-Methylnaphthalene	39	48	10 - 120	21	50		
2-Methylnaphthalene	39	47	13 - 120	20	50		
Naphthalene	36	45	10 - 120	25	50		
2-Nitroaniline	41	51	31 - 120	24	50		
3-Nitroaniline	54	66	31 - 120	21	49		
4-Nitroaniline	49	61	28 - 120	24	49		
Nitrobenzene	32	41	19 - 120	25	50		
2-Nitrophenol	23	33	23 - 120	38	50		
4-Nitrophenol	45	57	16 - 139	25	45		
N-Nitrosodimethylamine	27	32	10 - 200	18	50		
N-Nitrosodi-n-propylamine	32	40	24 - 120	22	50		
N-Nitrosodiphenylamine	59	76	26 - 150	26	50		
Pentachlorophenol	53	66	19 - 145	22	50		
Phenanthrene	52	64	21 - 122	22	50		

Client: Roux Associates, Inc. Job Number: 490-117346-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392789

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-117346-A-25-C MS	Analysis Batch:	490-394282	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	120616-22.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.68 g
Analysis Date:	12/14/2016 1959			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-A-25-D MSD	Analysis Batch:	490-394282	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	120616-23.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.22 g
Analysis Date:	12/14/2016 2017			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Phenol	36	43	15 - 120	20	50		
Pyrene	57	79	20 - 123	33	50		
Pyridine	22	27	10 - 200	24	50	J	J
1,2,4-Trichlorobenzene	36	45	14 - 120	23	50		
2,4,5-Trichlorophenol	55	65	27 - 120	19	50		
2,4,6-Trichlorophenol	52	60	24 - 122	17	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	44	51	29 - 120
2-Fluorophenol (Surr)	31	39	10 - 120
Nitrobenzene-d5 (Surr)	33	42	27 - 120
Phenol-d5 (Surr)	37	44	10 - 120
Terphenyl-d14 (Surr)	61	77	13 - 120
2,4,6-Tribromophenol (Surr)	63	76	10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-2

Method Blank - Batch: 490-392479

Method: 6010C
Preparation: 3051A

Lab Sample ID:	MB 490-392479/1-A	Analysis Batch:	490-393176	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-392479	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.507 g
Analysis Date:	12/08/2016 1159	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1327				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	9.86	U	9.86	19.7
Antimony	0.986	U	0.986	9.86
Arsenic	1.18	U	1.18	1.97
Barium	0.986	U	0.986	1.97
Beryllium	0.197	U	0.197	0.986
Cadmium	0.0986	U	0.0986	0.986
Calcium	98.6	U	98.6	197
Chromium	0.888	U	0.888	0.986
Cobalt	0.986	U	0.986	1.97
Copper	1.08	U	1.08	1.97
Iron	19.7	U	19.7	39.4
Lead	0.493	U	0.493	0.986
Magnesium	98.6	U	98.6	197
Manganese	0.986	U	0.986	2.96
Nickel	0.592	U	0.592	1.97
Potassium	98.6	U	98.6	197
Selenium	1.08	U	1.08	1.97
Silver	0.394	U	0.394	0.986
Sodium	128	U	128	197
Thallium	0.592	U	0.592	1.97
Vanadium	1.97	U	1.97	9.86
Zinc	4.93	U	4.93	9.86

Client: Roux Associates, Inc. Job Number: 490-117346-2

Lab Control Sample - Batch: 490-392479

Method: 6010C
Preparation: 3051A

Lab Sample ID:	LCS 490-392479/2-A	Analysis Batch:	490-393176	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-392479	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.502 g
Analysis Date:	12/08/2016 1204	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1327				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	797	798.0	100	80 - 120	
Antimony	39.8	36.77	92	80 - 120	
Arsenic	19.9	19.34	97	80 - 120	
Barium	797	812.5	102	80 - 120	
Beryllium	19.9	20.20	101	80 - 120	
Cadmium	19.9	20.50	103	80 - 120	
Calcium	1990	1994	100	80 - 120	
Chromium	79.7	87.35	110	80 - 120	
Cobalt	199	209.4	105	80 - 120	
Copper	99.6	99.68	100	80 - 120	
Iron	398	399.6	100	80 - 120	
Lead	19.9	19.82	99	80 - 120	
Magnesium	1990	1988	100	80 - 120	
Manganese	199	200.8	101	80 - 120	
Nickel	199	209.8	105	80 - 120	
Potassium	1990	1968	99	80 - 120	
Selenium	19.9	19.20	96	80 - 120	
Silver	19.9	19.16	96	80 - 120	
Sodium	1990	1959	98	80 - 120	
Thallium	120	113.2	95	80 - 120	
Vanadium	199	201.0	101	80 - 120	
Zinc	199	192.7	97	80 - 120	

Client: Roux Associates, Inc. Job Number: 490-117346-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392479

Method: 6010C
Preparation: 3051A

MS Lab Sample ID:	490-117454-D-1-B MS	Analysis Batch:	490-393176	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-392479	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.506 g
Analysis Date:	12/08/2016 1242			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1327				
Leach Date:	N/A				

MSD Lab Sample ID:	490-117454-D-1-C MSD	Analysis Batch:	490-393176	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-392479	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.507 g
Analysis Date:	12/08/2016 1247			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1327				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aluminum	102	99	75 - 125	3	20		
Antimony	87	88	75 - 125	1	20		
Arsenic	93	95	75 - 125	2	20		
Barium	97	99	75 - 125	2	20		
Beryllium	98	99	75 - 125	1	20		
Cadmium	99	101	75 - 125	2	20		
Calcium	101	103	75 - 125	1	20		
Chromium	108	109	75 - 125	1	20		
Cobalt	101	103	75 - 125	2	20		
Copper	97	98	75 - 125	1	20		
Iron	114	104	75 - 125	9	20		
Lead	97	98	75 - 125	1	20		
Magnesium	98	99	75 - 125	1	20		
Manganese	98	100	75 - 125	2	20		
Nickel	101	103	75 - 125	2	20		
Potassium	95	96	75 - 125	1	20		
Selenium	90	93	75 - 125	3	20		
Silver	93	94	75 - 125	1	20		
Sodium	95	96	75 - 125	1	20		
Thallium	90	92	75 - 125	2	20		
Vanadium	97	99	75 - 125	1	20		
Zinc	94	95	75 - 125	2	20		

Client: Roux Associates, Inc. Job Number: 490-117346-2

Method Blank - Batch: 490-394265

Method: 7471B
Preparation: 7471B

Lab Sample ID:	MB 490-394265/1-A	Analysis Batch:	490-394618	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.597 g
Analysis Date:	12/15/2016 1007	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0302	U	0.0302	0.101

Lab Control Sample - Batch: 490-394265

Method: 7471B
Preparation: 7471B

Lab Sample ID:	LCS 490-394265/2-A	Analysis Batch:	490-394618	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.625 g
Analysis Date:	12/15/2016 1010	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.160	0.1572	98	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-394265

Method: 7471B
Preparation: 7471B

MS Lab Sample ID:	490-117346-A-1-G MS	Analysis Batch:	490-394618	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.604 g
Analysis Date:	12/15/2016 1015			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-A-1-H MSD	Analysis Batch:	490-394618	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.606 g
Analysis Date:	12/15/2016 1017			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	106	100	80 - 120	6	20		

Client: Roux Associates, Inc. Job Number: 490-117346-2

Duplicate - Batch: 490-392389

Method: Moisture
Preparation: N/A

Lab Sample ID:	490-117346-A-7 DU	Analysis Batch:	490-392389	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/07/2016 1036	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	89.5	90.9	2	20	

Huckaba, Jimmy

From: Amy Hoffmann <ahoffmann@rouxinc.com>
Sent: Tuesday, December 06, 2016 5:38 AM
To: Huckaba, Jimmy; Huckaba, Jennifer; Matthew Casey; Marjorie Grace van der Ven
Subject: RE: (Please see note.) TestAmerica Sample Login Confirmation files from 490-117346 350/351 Franklin Street

Jimmy

Please add VOCS with TICS for all samples.

Thanks

Get Outlook for Android<https://aka.ms/ghei36>

From: Huckaba, Jimmy
Sent: Monday, December 5, 4:51 PM
Subject: RE: (Please see note.) TestAmerica Sample Login Confirmation files from 490-117346 350/351 Franklin Street
To: Huckaba, Jimmy, Amy Hoffmann, Huckaba, Jennifer, Matthew Casey, Marjorie Grace van der Ven

Also, please note pages 1 and 2 record the 8260 request as Standard 8260 List + TICs; however, page 2 only records Standard 8260 List. Do you need TICs also for the samples on page 2?

Thanks,

SHIPPING ALERT: Christmas Holiday, Monday December 26th 2016

For the upcoming Christmas holiday (observed Monday, December 26th) FedEx and UPS will not have scheduled service on Monday December 26th.

If you have BODs sampled on December 19th, 20th or 21st or short hold samples arriving Friday December 23rd or on the weekend, we ask that you contact your Project Manager in advance to ensure your samples meet all holding time criteria.

We are thankful for your business and hope that you have a wonderful and safe holiday!

Jimmy Huckaba

PROJECT MANAGEMENT ASSISTANT

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Drive

Nashville, TN 37204

Tel 615.301.5746

www.testamericainc.com<http://www.testamericainc.com/>

From: Huckaba, Jimmy [mailto:jimmy.huckaba@testamericainc.com]
Sent: Monday, December 05, 2016 3:35 PM
To: Amy Hoffmann; Huckaba, Jennifer; Matthew Casey; Marjorie Grace van der Ven
Subject: (Please see note.) TestAmerica Sample Login Confirmation files from 490-117346 350/351 Franklin Street

Hello,

Attached, please find the Sample Confirmation files for job 490-117346; 350/351 Franklin Street

Note: Sample END 451 was not recorded on the COC. Do you want to run any tests on this sample?
The COC records 4 pages but only pages 1, 2 and 3 were received.
For sample END-465, the COC records the sample time as 1416, but the labels record 1415. Can you verify which time is correct?
For sample END-463, the COC records the sample time as 1412, but the labels record 1415. Can you verify which time is correct?For sample END-464, the COC records the sample time as 1414, but the labels record 1415. Can you verify which time is correct?

Please feel free to contact me or your PM, Jennifer Huckaba, if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback<https://www.surveymonkey.com/s/TAProjectFeedback>

JIMMY HUCKABA
Project Management Assistant I

TestAmerica Nashville
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 615.726,0177

Reference: [335339]
Attachments: 3

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-117346 Chain of Custody

Cooler Received/Opened On 12/3/2016 @0925

Time Samples Removed From Cooler 1450 Time Samples Placed In Storage 1532 (2 Hour Window)

1. Tracking # 1722 (last 4 digits, FedEx) Courier: FEDEX

IR Gun ID_31470366 pH Strip Lot HC 682547 Chlorine Strip Lot 0811616

2. Temperature of rep. sample or temp blank when opened: 4.7 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 1

I certify that I unloaded the cooler and answered questions 7-14 (intial) PN

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) PN

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) PN

I certify that I attached a label with the unique LIMS number to each container (intial) PN

21. Were there Non-Conformance issues at login? YES..NO Was a NCM generated? YES..NO..#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 12/15/15

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Loc: 490
117346
#1
C

Cooler Received/Opened On 12/3/2016 @0925

Time Samples Removed From Cooler 1510 Time Samples Placed In Storage 1552 (2 Hour Window)

1. Tracking # 7144 (last 4 digits, FedEx) Courier: FEDEX

IR Gun ID 97310166 pH Strip Lot HC682547 Chlorine Strip Lot 0811611

2. Temperature of rep. sample or temp blank when opened: 4.8 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES..NO...NA

If yes, how many and where: Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) SL

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES..NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 2

I certify that I unloaded the cooler and answered questions 7-14 (intial) PM

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) PM

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) PM

I certify that I attached a label with the unique LIMS number to each container (intial) PM

21. Were there Non-Conformance issues at login? YES..NO Was a NCM generated? YES..NO..#_____

BIS = Broken in shipment

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Anthony Marsocci	Lab PM: Huckaba, Jennifer	Carrier Tracking No(s):	COC No: 490-59953-19378
Client Contact: Matthew Casey	Phone: 585-721-1196	E-Mail: jennifer.huckaba@testamericainc.com		Page: Page 1 OF 4
Company: Roux Associates, Inc.				Job #:
Address: 12 Gill St., Suite 4700	Due Date Requested:			
City: Woburn	TAT Requested (days): Standard			
State, Zip: MA, 01801				
Phone:	PO #: 0172.0210M009			
Email: mcasey@rouxinc.com	WO #:			
Project Name: Roux - Olean, NY	Project #: 49005538			
Site: 350/351 Franklin Street	SSOW#:			

Analysis Requested

Loc: 490
117346

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Standard 8260 List + TICs	8270D - Standard List	6010C, 7471B - TAL METALS	DRY WEIGHT	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
END 447	11/28/16	1500	G	S	N	N	X	X	X	X	4	
END 450	11/28/16	1530	G	S	N	N	X	X	X	X	4	
END 445	11/28/16	1430	G	S	N	N	X	X	X	X	4	
END 443	11/28/16	1400	G	S	N	N	X	X	X	X	4	
END 449	11/28/16	1530	G	S	N	N	X	X	X	X	4	
END 448	11/28/16	1500	G	S	N	N	X	X	X	X	4	
END 452	11/29/16	1600	G	S	N	N	X	X	X	X	4	
END 446	11/28/16	1430	G	S	N	N	X	X	X	X	4	
END 444	11/28/16	1400	G	S	N	N	X	X	X	X	4	
TP-313-6-7	11/28/16	1145	G	S	N	N	X	X	X	X	4	
Trip Blank											2	

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Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) CAT A

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Anthony Marsocci Date: 02 Dec 2016 Time: 1600 Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	02 Dec 2016 1600	ROUX	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				12/3/16 925	TAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☒ Yes ☐ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 4.7

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Anthony Marsocci	Lab PM: Huckaba, Jennifer	Carrier Tracking No(s):	COC No: 490-59873-19348
Client Contact: Matthew Casey	Phone: 585-721-1196	E-Mail: jennifer.huckaba@testamericainc.com		Page: Page 2 OF 4
Company: Roux Associates, Inc.				Job #:
Address: 12 Gill St., Suite 4700	Due Date Requested:			
City: Woburn	TAT Requested (days): Standard			
State, Zip: MA, 01801				
Phone:	PO #: 0172.0210M009			
Email: mcasey@rouxinc.com	WO #:			
Project Name: Roux - Olean, NY	Project #: 49005538			
Site: 350/351 Franklin Street	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Loc: 490
117346
#1
A

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Standard 8260 List	8270D - Standard List	6010C, 7471B - TAL METALS	DRY WEIGHT	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
END 459	11/29/16	1030	G	S	N	N	X	X	X	X	4	
END 457	11/29/16	0930	G	S	N	N	X	X	X	X	4	
END 456	11/29/16	0915	G	S	N	N	X	X	X	X	4	
END 453	11/29/16	0900	G	S	N	N	X	X	X	X	4	
END 455	11/29/16	0915	G	S	N	N	X	X	X	X	4	
END 454	11/29/16	0900	G	S	N	N	X	X	X	X	4	
END 458	11/29/16	1030	G	S	N	N	X	X	X	X		

Page 1 of 1
15
16
17
18

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) CAT A

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Anthony Marsocci	Date: 02 Dec 2016	Time: 1600	Method of Shipment:		
Relinquished by:	Date/Time: 02 Dec 2016 1600	Company: ROUX	Received by: FedEx	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: 4.7	Date/Time: 12/3/16 925	Company TAN
Relinquished by	Date/Time:	Company	Received by: 4.0	Date/Time:	Company

Custody Seals Intact: ∧ Yes ∧ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: A. Marsocci	Lab PM: Huckaba, Jennifer	Carrier Tracking No(s):	COC No: 490-59873-19348
Client Contact: Matthew Casey	Phone: 585-721-1196	E-Mail: jennifer.huckaba@testamericainc.com		Page: Page 3 OF 4
Company: Roux Associates, Inc.				Job #:
Address: 12 Gill St., Suite 4700	Due Date Requested:			
City: Woburn	TAT Requested (days): Standard			
State, Zip: MA, 01801				
Phone:	PO #: 0172.0210M009			
Email: mcasey@rouxinc.com	WO #:			
Project Name: Roux - Olean, NY	Project #: 49005538			
Site: 350/351 Franklin St	SSOW#:			

Analysis Requested

Loc: 490
117346
#1
B

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Standard 8260 List + TICs	8270D - Standard List	6010C, 7471B - TAL METALS	DRY WEIGHT	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
19 END-460	11/30/16	1400	G	S	N	N	✓	✓	✓	✓	4	
20 END-468	12/1/16	0930	G	S	N	N	✓	✓	✓	✓	4	
21 END-461	11/30/16	1400	G	S	N	N	✓	✓	✓	✓	4	
22 END-466	11/30/16	1430	G	S	N	N	✓	✓	✓	✓	4	
23 END-462	11/30/16	1415	G	S	N	N	✓	✓	✓	✓	4	
24 TRIP BLANK	—	—	LAB	LAB							2	
25 END-465	11/30/16	1416	G	S	N	N	✓	✓	✓	✓	4	
26 END-463	11/30/16	1412	G	S	N	N	✓	✓	✓	✓	4	
27 END-464	11/30/16	1414	G	S	N	N	✓	✓	✓	✓	4	
28 END-467	11/30/16	1430	G	S	N	N	✓	✓	✓	✓	4	

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Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) CAT A

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
A. Marsocci	12/2/16 1600	Rox	FedEx		
Relinquished by:	Date/Time:	Company	Received by: 47	Date/Time: 12/3/16 925	Company TAL
Relinquished by:	Date/Time:	Company	Received by: 4.8	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 490-117346-2

Login Number: 117346
List Number: 1
Creator: Ngo, Phiet

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

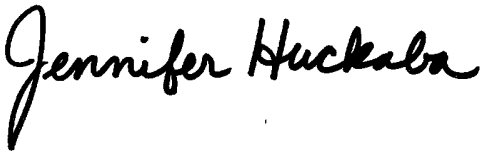
Job Number: 490-117346-3

Job Description: 350/351 Franklin Street

Contract Number: A2288121

For:
Roux Associates, Inc.
12 Gill St., Suite 4700
Woburn, MA 01801

Attention: Matthew Casey



Approved for release.
Jennifer Huckaba
Project Manager II
12/21/2016 10:38 PM

Jennifer Huckaba, Project Manager II
2960 Foster Creighton Drive, Nashville, TN, 37204
(615)301-5042
jennifer.huckaba@testamericainc.com
12/21/2016

The laboratory is only responsible for the certified testing and is not responsible for the sample integrity prior to laboratory receipt.

Table of Contents

Job Narrative
490-117346-3

Comments
PAGE 3 OF COC ONLY. Other 2 pages reported separately due to size.

Receipt
The samples were received on 12/3/2016 9:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.7º C and 4.8º C.

Receipt Exceptions

The following sample was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC) that was received: END 451 (490-117346-29). Per client request, go ahead and add this sample to the list to be analyzed for the same parameters as listed on the COC.

Sample times on the containers are different than the COC for the following samples: END-465 (490-117346-25), END-463 (490-117346-26) and END-464 (490-117346-27). The containers all list the times at 1415 and per the client, the times should all be reported at 1415 as on the labels.

GC/MS VOA
Method(s) 8260C: Surrogate recovery for the following samples was outside control limits: END-460 (490-117346-19), END-461 (490-117346-21), END-462 (490-117346-23), END 451 (490-117346-29), (490-117346-A-4-C MS) and (490-117346-A-4-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260C: Surrogate recovery for the following samples was outside control limits: (490-117346-A-1-A MS) and (490-117346-A-1-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260C: Surrogate recovery for the following samples was outside control limits: (490-117346-A-29-A MS) and (490-117346-A-29-B MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260C: Internal standard responses were outside of acceptance limits for the following sample: END-460 (490-117346-19), END-462 (490-117346-23),. The samples show evidence of matrix interference.

Method(s) 8260C: The following samples were diluted due to the nature of the sample matrix: END-460 (490-117346-19) and END-462 (490-117346-23). Elevated reporting limits (RLs) are provided. Internal standards failed in the initial runs from sodium bisulfate vials.

Method(s) 8260C: Internal standard responses were outside of acceptance limits for the following sample: (490-117346-D-1-A) and (490-117346-A-1-B MSD). The samples show evidence of matrix interference.

Method(s) 8260C: Internal standard responses were outside of acceptance limits for the following samples: (490-117346-A-4-C MS) and (490-117346-A-4-D MSD). The samples show evidence of matrix interference.

Method(s) 8260C: Internal standard responses were outside of acceptance limits for the following samples: (490-117755-B-14-D MS) and (490-117755-B-14-E MS). The samples show evidence of matrix interference.

Method(s) 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 490-391971 recovered outside control limits for the following analytes: Vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The method blank for analytical batch 490-392216 contained 1,2,3-Trichlorobenzene above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-analysis of samples was not performed.

Method(s) 8260C: Batch 490-392335 is reported without a matrix spike/matrix spike duplicate (MS/MSD). The batch MS/MSD was originally performed on another client's sample, and this test was canceled at client request. This MS/MSD result does not have immediate bearing on any samples except for the actual sample spiked. The associated laboratory control sample (LCS) met acceptance criteria and provides long-term precision and accuracy for this batch.

Method(s) 8260C: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for analytical batch 490-393092 recovered outside control limits for the following analytes: Bromoform.

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 490-393855 recovered outside control limits for the following analytes: Tetrachloroethene. This analyte was not reported from the associated samples.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 490-393758 recovered above the upper control limit for 4-Nitrophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been

reported. The following sample is impacted: (CCVIS 490-393758/3).

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 490-392789 and analytical batch 490-393758 recovered outside control limits for the following analytes: 4-Nitrophenol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 490-392789 and analytical batch 490-393758 recovered outside control limits for 4,6-Dinitro-2-methylphenol and Hexachlorocyclopentadiene but within marginal exceedance. These results have been reported and qualified.

Method(s) 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 490-392789 and analytical batch 490-394282 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 490-392804 and analytical batch 490-393095 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

The laboratory is only responsible for the certified testing and is not responsible for the sample integrity prior to laboratory receipt.

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117346-3

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117346-19	**END-460**					
Benzene		0.0549		0.00193	mg/Kg	8260C
2-Butanone (MEK)		0.0804		0.0483	mg/Kg	8260C
Carbon disulfide		0.0286		0.00483	mg/Kg	8260C
Isopropylbenzene		0.305		0.193	mg/Kg	8260C
m,p-Xylene		3.97		0.290	mg/Kg	8260C
Naphthalene		0.190	J	0.483	mg/Kg	8260C
n-Butylbenzene		0.445		0.193	mg/Kg	8260C
N-Propylbenzene		0.433		0.193	mg/Kg	8260C
o-Xylene		0.127	J	0.193	mg/Kg	8260C
p-Isopropyltoluene		0.301		0.193	mg/Kg	8260C
sec-Butylbenzene		0.211		0.193	mg/Kg	8260C
Toluene		0.359		0.193	mg/Kg	8260C
1,2,4-Trimethylbenzene		7.31		0.193	mg/Kg	8260C
1,3,5-Trimethylbenzene		3.59		0.193	mg/Kg	8260C
Xylenes (total)		4.10		0.290	mg/Kg	8260C
Benzo(a)anthracene		0.0454	J	0.0801	mg/Kg	8270D
Chrysene		0.221		0.0801	mg/Kg	8270D
1-Methylnaphthalene		0.161		0.0801	mg/Kg	8270D
2-Methylnaphthalene		0.229		0.0801	mg/Kg	8270D
Phenanthrene		0.0966		0.0801	mg/Kg	8270D
Pyrene		0.0639	J	0.0801	mg/Kg	8270D
Aluminum		4770		24.4	mg/Kg	6010C
Arsenic		12.6		2.44	mg/Kg	6010C
Barium		106		2.44	mg/Kg	6010C
Cadmium		0.317	J	1.22	mg/Kg	6010C
Calcium		1360		244	mg/Kg	6010C
Chromium		7.49		1.22	mg/Kg	6010C
Cobalt		7.17		2.44	mg/Kg	6010C
Copper		88.2		2.44	mg/Kg	6010C
Iron		17400		48.8	mg/Kg	6010C
Lead		23.5		1.22	mg/Kg	6010C
Magnesium		1230		244	mg/Kg	6010C
Manganese		204		3.66	mg/Kg	6010C
Nickel		16.4		2.44	mg/Kg	6010C
Potassium		314		244	mg/Kg	6010C
Selenium		2.10	J	2.44	mg/Kg	6010C
Vanadium		13.0		12.2	mg/Kg	6010C
Zinc		57.3		12.2	mg/Kg	6010C
Mercury		0.0564	J	0.122	mg/Kg	7471B
Percent Solids		82.6		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117346-3

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117346-20	**END-468**					
Acetone		0.361		0.0495	mg/Kg	8260C
Benzene		0.00244		0.00198	mg/Kg	8260C
2-Butanone (MEK)		0.0437	J	0.0495	mg/Kg	8260C
Carbon disulfide		0.00497		0.00495	mg/Kg	8260C
m,p-Xylene		0.00164	J	0.00396	mg/Kg	8260C
Toluene		0.00261		0.00198	mg/Kg	8260C
Xylenes (total)		0.00164	J	0.00594	mg/Kg	8260C
Aluminum		6970		23.0	mg/Kg	6010C
Arsenic		8.34		2.30	mg/Kg	6010C
Barium		290		2.30	mg/Kg	6010C
Beryllium		0.390	J	1.15	mg/Kg	6010C
Cadmium		0.735	J	1.15	mg/Kg	6010C
Calcium		6030		230	mg/Kg	6010C
Chromium		8.47		1.15	mg/Kg	6010C
Cobalt		11.3		2.30	mg/Kg	6010C
Copper		11.7		2.30	mg/Kg	6010C
Iron		18800		45.9	mg/Kg	6010C
Lead		25.5		1.15	mg/Kg	6010C
Magnesium		2510		230	mg/Kg	6010C
Manganese		2890		3.44	mg/Kg	6010C
Nickel		17.8		2.30	mg/Kg	6010C
Potassium		607		230	mg/Kg	6010C
Selenium		3.26		2.30	mg/Kg	6010C
Thallium		4.04		2.30	mg/Kg	6010C
Vanadium		11.5		11.5	mg/Kg	6010C
Zinc		45.1		11.5	mg/Kg	6010C
Percent Solids		85.9		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117346-3

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117346-21	**END-461**					
Acetone		0.0746		0.0386	mg/Kg	8260C
Benzene		0.00121	J	0.00154	mg/Kg	8260C
2-Butanone (MEK)		0.0162	J	0.0386	mg/Kg	8260C
Carbon disulfide		0.00509		0.00386	mg/Kg	8260C
Isopropylbenzene		0.0110		0.00154	mg/Kg	8260C
4-Methyl-2-pentanone (MIBK)		0.00243	J	0.0386	mg/Kg	8260C
m,p-Xylene		0.0409		0.00309	mg/Kg	8260C
n-Butylbenzene		0.00257		0.00154	mg/Kg	8260C
N-Propylbenzene		0.0176		0.00154	mg/Kg	8260C
o-Xylene		0.00256		0.00154	mg/Kg	8260C
p-Isopropyltoluene		0.0127		0.00154	mg/Kg	8260C
sec-Butylbenzene		0.00404		0.00154	mg/Kg	8260C
tert-Butylbenzene		0.00126	J	0.00154	mg/Kg	8260C
Toluene		0.00426		0.00154	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.176		0.00154	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.0825		0.00154	mg/Kg	8260C
Xylenes (total)		0.0435		0.00463	mg/Kg	8260C
Aluminum		8740		23.0	mg/Kg	6010C
Arsenic		4.07		2.30	mg/Kg	6010C
Barium		50.2		2.30	mg/Kg	6010C
Beryllium		0.345	J	1.15	mg/Kg	6010C
Cadmium		0.460	J	1.15	mg/Kg	6010C
Calcium		550		230	mg/Kg	6010C
Chromium		8.41		1.15	mg/Kg	6010C
Cobalt		4.92		2.30	mg/Kg	6010C
Copper		38.5		2.30	mg/Kg	6010C
Iron		10600		46.0	mg/Kg	6010C
Lead		13.0		1.15	mg/Kg	6010C
Magnesium		2310		230	mg/Kg	6010C
Manganese		117		3.45	mg/Kg	6010C
Nickel		14.6		2.30	mg/Kg	6010C
Potassium		385		230	mg/Kg	6010C
Vanadium		13.8		11.5	mg/Kg	6010C
Zinc		68.7		11.5	mg/Kg	6010C
Percent Solids		85.8		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117346-3

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117346-22	**END-466**					
Acetone		0.165		0.0512	mg/Kg	8260C
2-Butanone (MEK)		0.0214	J	0.0512	mg/Kg	8260C
m,p-Xylene		0.000641	J	0.00409	mg/Kg	8260C
Aluminum		7680		22.1	mg/Kg	6010C
Arsenic		6.39		2.21	mg/Kg	6010C
Barium		42.2		2.21	mg/Kg	6010C
Beryllium		0.420	J	1.11	mg/Kg	6010C
Cadmium		0.619	J	1.11	mg/Kg	6010C
Calcium		768		221	mg/Kg	6010C
Chromium		7.30		1.11	mg/Kg	6010C
Cobalt		6.68		2.21	mg/Kg	6010C
Copper		14.5		2.21	mg/Kg	6010C
Iron		12800		44.2	mg/Kg	6010C
Lead		15.7		1.11	mg/Kg	6010C
Magnesium		1920		221	mg/Kg	6010C
Manganese		814		3.32	mg/Kg	6010C
Nickel		14.8		2.21	mg/Kg	6010C
Potassium		437		221	mg/Kg	6010C
Vanadium		12.3		11.1	mg/Kg	6010C
Zinc		50.7		11.1	mg/Kg	6010C
Percent Solids		87.8		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117346-3

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117346-23	**END-462**					
Acetone		0.280		0.0449	mg/Kg	8260C
2-Butanone (MEK)		0.0684		0.0449	mg/Kg	8260C
4-Methyl-2-pentanone (MIBK)		0.00704	J	0.0449	mg/Kg	8260C
m,p-Xylene		0.00313	J	0.00359	mg/Kg	8260C
o-Xylene		0.00107	J	0.00179	mg/Kg	8260C
Xylenes (total)		0.00420	J	0.00538	mg/Kg	8260C
Aluminum		6340		22.2	mg/Kg	6010C
Arsenic		4.78		2.22	mg/Kg	6010C
Barium		57.4		2.22	mg/Kg	6010C
Cadmium		0.844	J	1.11	mg/Kg	6010C
Calcium		1290		222	mg/Kg	6010C
Chromium		8.87		1.11	mg/Kg	6010C
Cobalt		2.98		2.22	mg/Kg	6010C
Copper		35.3		2.22	mg/Kg	6010C
Iron		22200		44.4	mg/Kg	6010C
Lead		18.0		1.11	mg/Kg	6010C
Magnesium		1910		222	mg/Kg	6010C
Manganese		262		3.33	mg/Kg	6010C
Nickel		11.5		2.22	mg/Kg	6010C
Potassium		336		222	mg/Kg	6010C
Selenium		2.27		2.22	mg/Kg	6010C
Vanadium		18.0		11.1	mg/Kg	6010C
Zinc		41.8		11.1	mg/Kg	6010C
Percent Solids		87.6		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117346-3

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117346-25	**END-465**					
Acetone		0.0393	J	0.0526	mg/Kg	8260C
Aluminum		6000		21.2	mg/Kg	6010C
Arsenic		5.88		2.12	mg/Kg	6010C
Barium		31.8		2.12	mg/Kg	6010C
Beryllium		0.254	J	1.06	mg/Kg	6010C
Cadmium		0.487	J	1.06	mg/Kg	6010C
Calcium		406		212	mg/Kg	6010C
Chromium		7.00		1.06	mg/Kg	6010C
Cobalt		3.30		2.12	mg/Kg	6010C
Copper		12.6		2.12	mg/Kg	6010C
Iron		12900		42.3	mg/Kg	6010C
Lead		12.0		1.06	mg/Kg	6010C
Magnesium		2170		212	mg/Kg	6010C
Manganese		126		3.17	mg/Kg	6010C
Nickel		12.8		2.12	mg/Kg	6010C
Potassium		408		212	mg/Kg	6010C
Vanadium		12.4		10.6	mg/Kg	6010C
Zinc		39.5		10.6	mg/Kg	6010C
Percent Solids		91.1		0.1	%	Moisture
490-117346-26	**END-463**					
Acetone		0.0470	J	0.0503	mg/Kg	8260C
Aluminum		7350		21.8	mg/Kg	6010C
Arsenic		5.08		2.18	mg/Kg	6010C
Barium		47.2		2.18	mg/Kg	6010C
Beryllium		0.262	J	1.09	mg/Kg	6010C
Cadmium		0.655	J	1.09	mg/Kg	6010C
Calcium		855		218	mg/Kg	6010C
Chromium		8.12		1.09	mg/Kg	6010C
Cobalt		4.39		2.18	mg/Kg	6010C
Copper		24.1		2.18	mg/Kg	6010C
Iron		12800		43.6	mg/Kg	6010C
Lead		15.0		1.09	mg/Kg	6010C
Magnesium		1940		218	mg/Kg	6010C
Manganese		121		3.27	mg/Kg	6010C
Nickel		12.8		2.18	mg/Kg	6010C
Potassium		406		218	mg/Kg	6010C
Vanadium		11.5		10.9	mg/Kg	6010C
Zinc		55.4		10.9	mg/Kg	6010C
Percent Solids		89.5		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117346-3

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117346-27	**END-464**					
Acetone		0.0543		0.0510	mg/Kg	8260C
Benzene		0.000713	J	0.00204	mg/Kg	8260C
Aluminum		9770		22.3	mg/Kg	6010C
Arsenic		9.03		2.23	mg/Kg	6010C
Barium		49.4		2.23	mg/Kg	6010C
Beryllium		0.402	J	1.12	mg/Kg	6010C
Cadmium		0.782	J	1.12	mg/Kg	6010C
Calcium		768		223	mg/Kg	6010C
Chromium		9.25		1.12	mg/Kg	6010C
Cobalt		7.13		2.23	mg/Kg	6010C
Copper		21.9		2.23	mg/Kg	6010C
Iron		14000		44.7	mg/Kg	6010C
Lead		28.1		1.12	mg/Kg	6010C
Magnesium		2260		223	mg/Kg	6010C
Manganese		205		3.35	mg/Kg	6010C
Nickel		18.7		2.23	mg/Kg	6010C
Potassium		529		223	mg/Kg	6010C
Selenium		2.12	J	2.23	mg/Kg	6010C
Vanadium		14.5		11.2	mg/Kg	6010C
Zinc		64.4		11.2	mg/Kg	6010C
Mercury		0.434		0.113	mg/Kg	7471B
Percent Solids		89.0		0.1	%	Moisture
490-117346-28	**END-467**					
Acetone		0.0587		0.0563	mg/Kg	8260C
2-Butanone (MEK)		0.00880	J	0.0563	mg/Kg	8260C
Aluminum		8300		21.4	mg/Kg	6010C
Arsenic		3.94		2.14	mg/Kg	6010C
Barium		30.1		2.14	mg/Kg	6010C
Beryllium		0.364	J	1.07	mg/Kg	6010C
Cadmium		0.536	J	1.07	mg/Kg	6010C
Calcium		612		214	mg/Kg	6010C
Chromium		7.54		1.07	mg/Kg	6010C
Cobalt		6.69		2.14	mg/Kg	6010C
Copper		11.2		2.14	mg/Kg	6010C
Iron		13300		42.9	mg/Kg	6010C
Lead		13.6		1.07	mg/Kg	6010C
Magnesium		2280		214	mg/Kg	6010C
Manganese		267		3.22	mg/Kg	6010C
Nickel		15.3		2.14	mg/Kg	6010C
Potassium		371		214	mg/Kg	6010C
Vanadium		13.6		10.7	mg/Kg	6010C
Zinc		48.0		10.7	mg/Kg	6010C
Percent Solids		89.7		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117346-3

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117346-29	**END 451**					
Acetone		0.0816		0.0436	mg/Kg	8260C
Benzene		0.00906		0.00175	mg/Kg	8260C
2-Butanone (MEK)		0.0173	J	0.0436	mg/Kg	8260C
Isopropylbenzene		0.0155		0.00175	mg/Kg	8260C
m,p-Xylene		0.0106		0.00349	mg/Kg	8260C
n-Butylbenzene		0.00166	J	0.00175	mg/Kg	8260C
N-Propylbenzene		0.0188		0.00175	mg/Kg	8260C
o-Xylene		0.00595		0.00175	mg/Kg	8260C
p-Isopropyltoluene		0.00130	J	0.00175	mg/Kg	8260C
sec-Butylbenzene		0.0100		0.00175	mg/Kg	8260C
tert-Butylbenzene		0.00445		0.00175	mg/Kg	8260C
Toluene		0.00516		0.00175	mg/Kg	8260C
1,2,3-Trichlorobenzene		0.000412	J B	0.00175	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.0505		0.00175	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.0109		0.00175	mg/Kg	8260C
Xylenes (total)		0.0166		0.00524	mg/Kg	8260C
Aluminum		7610		21.8	mg/Kg	6010C
Arsenic		30.4		2.18	mg/Kg	6010C
Barium		63.5		2.18	mg/Kg	6010C
Beryllium		0.415	J	1.09	mg/Kg	6010C
Cadmium		0.983	J	1.09	mg/Kg	6010C
Calcium		1090		218	mg/Kg	6010C
Chromium		9.87		1.09	mg/Kg	6010C
Cobalt		5.42		2.18	mg/Kg	6010C
Copper		92.4		2.18	mg/Kg	6010C
Iron		24300		43.7	mg/Kg	6010C
Lead		18.8		1.09	mg/Kg	6010C
Magnesium		1650		218	mg/Kg	6010C
Manganese		622		3.28	mg/Kg	6010C
Nickel		13.3		2.18	mg/Kg	6010C
Potassium		316		218	mg/Kg	6010C
Selenium		2.64		2.18	mg/Kg	6010C
Vanadium		12.6		10.9	mg/Kg	6010C
Zinc		40.4		10.9	mg/Kg	6010C
Percent Solids		91.0		0.1	%	Moisture

METHOD SUMMARY

Client: Roux Associates, Inc. Job Number: 490-117346-3

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS	TAL NSH	SW846 8260C	
Closed System Purge & Trap/Field Methanol	TAL NSH		SW846 5035A
Volatile Organic Compounds by GC/MS	TAL NSH	SW846 8260C	
Closed System Purge and Trap	TAL NSH		SW846 5035A
Semivolatile Organic Compounds (GC/MS)	TAL NSH	SW846 8270D	
Ultrasonic Extraction	TAL NSH		SW846 3550C
Metals (ICP)	TAL NSH	SW846 6010C	
Preparation, Metals, Microwave Assisted	TAL NSH		SW846 3051A
Mercury (CVAA)	TAL NSH	SW846 7471B	
Preparation, Mercury	TAL NSH		SW846 7471B
Percent Moisture	TAL NSH	EPA Moisture	

Lab References:

TAL NSH = TestAmerica Nashville

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Roux Associates, Inc. Job Number: 490-117346-3

Method	Analyst	Analyst ID
SW846 8260C	Larsen, Eric	EML
SW846 8270D	Chaiyasit, Thitima 1	T1C
SW846 6010C	Fly, Robyn D	RDF
SW846 6010C	Keller, Kris	KKK
SW846 7471B	Smith, Lauren C	LCS
EPA Moisture	Ali, Blnd A	BAA

SAMPLE SUMMARY

Client: Roux Associates, Inc. Job Number: 490-117346-3

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
490-117346-19	END-460	Solid	11/30/2016 1400	12/03/2016 0925
490-117346-20	END-468	Solid	12/01/2016 0930	12/03/2016 0925
490-117346-21	END-461	Solid	11/30/2016 1400	12/03/2016 0925
490-117346-22	END-466	Solid	11/30/2016 1430	12/03/2016 0925
490-117346-23	END-462	Solid	11/30/2016 1415	12/03/2016 0925
490-117346-24	TRIP BLANK	Solid	11/28/2016 0001	12/03/2016 0925
490-117346-25	END-465	Solid	11/30/2016 1415	12/03/2016 0925
490-117346-26	END-463	Solid	11/30/2016 1415	12/03/2016 0925
490-117346-27	END-464	Solid	11/30/2016 1415	12/03/2016 0925
490-117346-28	END-467	Solid	11/30/2016 1430	12/03/2016 0925
490-117346-29	END 451	Solid	11/28/2016 1600	12/03/2016 0925

SAMPLE RESULTS

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-460

Lab Sample ID: 490-117346-19 Date Sampled: 11/30/2016 1400
Client Matrix: Solid % Moisture: 17.4 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392216	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-44.D
Dilution:	1.0			Initial Weight/Volume:	6.26 g
Analysis Date:	12/07/2016 0820			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.00812	U	0.00812	0.0483
Benzene		0.0549		0.000648	0.00193
Bromochloromethane		0.000532	U	0.000532	0.00193
Bromodichloromethane		0.000532	U	0.000532	0.00193
Bromomethane		0.00116	U	0.00116	0.00193
2-Butanone (MEK)		0.0804		0.00493	0.0483
Carbon disulfide		0.0286		0.00348	0.00483
Carbon tetrachloride		0.000648	U	0.000648	0.00193
Chloroethane		0.00184	U	0.00184	0.00483
Chloroform		0.000648	U	0.000648	0.00193
Chloromethane		0.000648	U	0.000648	0.00193
cis-1,2-Dichloroethene		0.000648	U	0.000648	0.00193
Dichlorodifluoromethane		0.000967	U	0.000967	0.00193
1,1-Dichloroethane		0.000648	U	0.000648	0.00193
1,2-Dichloroethane		0.000648	U	0.000648	0.00193
1,1-Dichloroethene		0.000551	U	0.000551	0.00193
1,2-Dichloropropane		0.000909	U	0.000909	0.00193
2,2-Dichloropropane		0.000648	U	0.000648	0.00193
1,1-Dichloropropene		0.000493	U	0.000493	0.00193
Iodomethane		0.00648	U	0.00648	0.0193
Methylene bromide		0.000541	U	0.000541	0.00193
Methylene Chloride		0.000831	U	0.000831	0.00967
Methyl tert butyl ether		0.000928	U	0.000928	0.00193
trans-1,2-Dichloroethene		0.000648	U	0.000648	0.00193
1,1,1-Trichloroethane		0.000889	U	0.000889	0.00193
Trichloroethene		0.000928	U	0.000928	0.00193
Trichlorofluoromethane		0.000967	U	0.000967	0.00193
Vinyl acetate		0.00425	U	0.00425	0.0193
Vinyl chloride		0.00106	U	0.00106	0.00193

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	2172	*	70 - 130
Dibromofluoromethane (Surr)	110		70 - 130
1,2-Dichloroethane-d4 (Surr)	652	*	70 - 130
Toluene-d8 (Surr)	3458	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-460

Lab Sample ID: 490-117346-19 Date Sampled: 11/30/2016 1400
Client Matrix: Solid % Moisture: 17.4 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392216	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-44.D
Dilution:	1.0			Initial Weight/Volume:	6.26 g
Analysis Date:	12/07/2016 0820			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1400				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
110-82-7	Cyclohexane	4.15	7.68	E
108-87-2	Methylcyclohexane	5.03	9.38	E
15890-40-1	Cyclopentane, 1,2,3-trimethyl-, (1.alpha.,2.alpha.,3.beta.)-	5.15	2.10	J N
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	6.02	2.44	J N
624-29-3	Cyclohexane, 1,4-dimethyl-, cis-	6.10	3.13	J N
926-82-9	Heptane, 3,5-dimethyl-	6.37	2.28	J N
2040-96-2	Cyclopentane, propyl-	6.55	5.92	J N
2216-34-4	Octane, 4-methyl-	6.70	3.87	J N
2051-30-1	Octane, 2,6-dimethyl-	7.63	2.21	J N
53771-88-3	Cyclopentane, 1-methyl-3-(1-methylethyl)-	7.76	4.57	J N

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-460

Lab Sample ID: 490-117346-19 Date Sampled: 11/30/2016 1400
Client Matrix: Solid % Moisture: 17.4 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393092	Instrument ID:	HP68
Prep Method:	5035A	Prep Batch:	490-391833	Lab File ID:	12091613.D
Dilution:	1.0			Initial Weight/Volume:	3.515 g
Analysis Date:	12/09/2016 1544			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0695	U	0.0695	0.193
Bromoform		0.0541	U	0.0541	0.193
Chlorobenzene		0.0657	U	0.0657	0.193
cis-1,3-Dichloropropene		0.0657	U	0.0657	0.193
Dibromochloromethane		0.0328	U	0.0328	0.193
1,2-Dibromo-3-chloropropane		0.0676	U	0.0676	0.483
1,2-Dibromoethane		0.0966	U	0.0966	0.193
1,2-Dichlorobenzene		0.0328	U	0.0328	0.193
1,3-Dichlorobenzene		0.0657	U	0.0657	0.193
1,4-Dichlorobenzene		0.0908	U	0.0908	0.193
1,3-Dichloropropane		0.0908	U	0.0908	0.193
Ethylbenzene		0.0657	U	0.0657	0.193
Hexachlorobutadiene		0.106	U	0.106	0.483
2-Hexanone		1.62	U	1.62	4.83
Isopropylbenzene		0.305		0.0406	0.193
4-Methyl-2-pentanone (MIBK)		1.64	U	1.64	4.83
m,p-Xylene		3.97		0.0541	0.290
Naphthalene		0.190	J	0.164	0.483
n-Butylbenzene		0.445		0.0966	0.193
N-Propylbenzene		0.433		0.0657	0.193
o-Chlorotoluene		0.0889	U	0.0889	0.193
o-Xylene		0.127	J	0.0657	0.193
p-Chlorotoluene		0.0811	U	0.0811	0.193
p-Isopropyltoluene		0.301		0.0657	0.193
sec-Butylbenzene		0.211		0.0657	0.193
Styrene		0.106	U	0.106	0.193
tert-Butylbenzene		0.0966	U	0.0966	0.193
1,1,1,2-Tetrachloroethane		0.0657	U	0.0657	0.193
1,1,2,2-Tetrachloroethane		0.0966	U	0.0966	0.193
Tetrachloroethene		0.0657	U	0.0657	0.193
Toluene		0.359		0.0715	0.193
trans-1,3-Dichloropropene		0.0657	U	0.0657	0.193
1,2,3-Trichlorobenzene		0.0367	U	0.0367	0.193
1,2,4-Trichlorobenzene		0.0657	U	0.0657	0.193
1,1,2-Trichloroethane		0.135	U	0.135	0.483
1,2,3-Trichloropropane		0.0541	U	0.0541	0.193
1,2,4-Trimethylbenzene		7.31		0.0966	0.193
1,3,5-Trimethylbenzene		3.59		0.0734	0.193
Xylenes (total)		4.10		0.120	0.290

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
Dibromofluoromethane (Surr)	105		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	105		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-468

Lab Sample ID: 490-117346-20 Date Sampled: 12/01/2016 0930
Client Matrix: Solid % Moisture: 14.1 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-17.D
Dilution:	1.0			Initial Weight/Volume:	5.879 g
Analysis Date:	12/09/2016 1758			Final Weight/Volume:	5.0 mL
Prep Date:	12/01/2016 0930				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.361		0.00832	0.0495
Benzene		0.00244		0.000663	0.00198
Bromobenzene		0.000713	U	0.000713	0.00198
Bromochloromethane		0.000545	U	0.000545	0.00198
Bromodichloromethane		0.000545	U	0.000545	0.00198
Bromoform		0.000545	U	0.000545	0.00198
Bromomethane		0.00119	U	0.00119	0.00198
2-Butanone (MEK)		0.0437	J	0.00505	0.0495
Carbon disulfide		0.00497		0.00356	0.00495
Carbon tetrachloride		0.000663	U	0.000663	0.00198
Chlorobenzene		0.000663	U	0.000663	0.00198
Chloroethane		0.00188	U	0.00188	0.00495
Chloroform		0.000663	U	0.000663	0.00198
Chloromethane		0.000663	U	0.000663	0.00198
cis-1,2-Dichloroethene		0.000663	U	0.000663	0.00198
cis-1,3-Dichloropropene		0.000663	U	0.000663	0.00198
Dibromochloromethane		0.000337	U	0.000337	0.00198
1,2-Dibromo-3-chloropropane		0.000693	U	0.000693	0.00495
1,2-Dibromoethane		0.000990	U	0.000990	0.00198
1,2-Dichlorobenzene		0.000337	U	0.000337	0.00198
1,3-Dichlorobenzene		0.000663	U	0.000663	0.00198
1,4-Dichlorobenzene		0.000663	U	0.000663	0.00198
Dichlorodifluoromethane		0.000990	U	0.000990	0.00198
1,1-Dichloroethane		0.000663	U	0.000663	0.00198
1,2-Dichloroethane		0.000663	U	0.000663	0.00198
1,1-Dichloroethene		0.000564	U	0.000564	0.00198
1,2-Dichloropropane		0.000931	U	0.000931	0.00198
1,3-Dichloropropane		0.000931	U	0.000931	0.00198
2,2-Dichloropropane		0.000663	U	0.000663	0.00198
1,1-Dichloropropene		0.000505	U	0.000505	0.00198
Ethylbenzene		0.000663	U	0.000663	0.00198
Hexachlorobutadiene		0.00113	U	0.00113	0.00495
2-Hexanone		0.0165	U	0.0165	0.0495
Iodomethane		0.00663	U	0.00663	0.0198
Isopropylbenzene		0.000406	U	0.000406	0.00198
Methylene bromide		0.000555	U	0.000555	0.00198
Methylene Chloride		0.000852	U	0.000852	0.00990
4-Methyl-2-pentanone (MIBK)		0.00188	U	0.00188	0.0495
Methyl tert butyl ether		0.000951	U	0.000951	0.00198
m,p-Xylene		0.00164	J	0.000555	0.00396
Naphthalene		0.00168	U	0.00168	0.00495
n-Butylbenzene		0.000970	U	0.000970	0.00198
N-Propylbenzene		0.000663	U	0.000663	0.00198
o-Chlorotoluene		0.000881	U	0.000881	0.00198
o-Xylene		0.000663	U	0.000663	0.00198
p-Chlorotoluene		0.000832	U	0.000832	0.00198

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-468

Lab Sample ID: 490-117346-20 Date Sampled: 12/01/2016 0930
Client Matrix: Solid % Moisture: 14.1 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-17.D
Dilution:	1.0			Initial Weight/Volume:	5.879 g
Analysis Date:	12/09/2016 1758			Final Weight/Volume:	5.0 mL
Prep Date:	12/01/2016 0930				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000663	U	0.000663	0.00198
sec-Butylbenzene		0.000663	U	0.000663	0.00198
Styrene		0.00109	U	0.00109	0.00198
tert-Butylbenzene		0.000891	U	0.000891	0.00198
1,1,1,2-Tetrachloroethane		0.000663	U	0.000663	0.00198
1,1,2,2-Tetrachloroethane		0.000990	U	0.000990	0.00198
Tetrachloroethene		0.000723	U	0.000723	0.00198
Toluene		0.00261		0.000733	0.00198
trans-1,2-Dichloroethene		0.000663	U	0.000663	0.00198
trans-1,3-Dichloropropene		0.000663	U	0.000663	0.00198
1,2,3-Trichlorobenzene		0.000376	U	0.000376	0.00198
1,2,4-Trichlorobenzene		0.000663	U	0.000663	0.00198
1,1,1-Trichloroethane		0.000911	U	0.000911	0.00198
1,1,2-Trichloroethane		0.00139	U	0.00139	0.00495
Trichloroethene		0.000951	U	0.000951	0.00198
Trichlorofluoromethane		0.000990	U	0.000990	0.00198
1,2,3-Trichloropropane		0.000545	U	0.000545	0.00198
1,2,4-Trimethylbenzene		0.000990	U	0.000990	0.00198
1,3,5-Trimethylbenzene		0.000743	U	0.000743	0.00198
Vinyl acetate		0.00436	U	0.00436	0.0198
Vinyl chloride		0.00109	U	0.00109	0.00198
Xylenes (total)		0.00164	J	0.00122	0.00594

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-468

Lab Sample ID: 490-117346-20 Date Sampled: 12/01/2016 0930
Client Matrix: Solid % Moisture: 14.1 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-17.D
Dilution:	1.0			Initial Weight/Volume:	5.879 g
Analysis Date:	12/09/2016 1758			Final Weight/Volume:	5.0 mL
Prep Date:	12/01/2016 0930				

Tentatively Identified Compounds **Number TIC's Found: 9**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
	Unknown	1.61	0.0135	J
	Unknown	1.73	0.00993	J
	Unknown	1.82	0.00920	J
109-66-0	Pentane	2.30	0.0109	J N
64-17-5	Ethanol	2.37	0.105	J
75-65-0	2-Methyl-2-propanol	2.97	0.0133	J
123-72-8	Butanal	3.62	0.00982	J N
	Unknown	6.36	0.0278	J
100-52-7	Benzaldehyde	8.75	0.0119	J N

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-461

Lab Sample ID: 490-117346-21 Date Sampled: 11/30/2016 1400
Client Matrix: Solid % Moisture: 14.2 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-18.D
Dilution:	1.0			Initial Weight/Volume:	7.544 g
Analysis Date:	12/09/2016 1829			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0746		0.00649	0.0386
Benzene		0.00121	J	0.000517	0.00154
Bromobenzene		0.000556	U	0.000556	0.00154
Bromochloromethane		0.000425	U	0.000425	0.00154
Bromodichloromethane		0.000425	U	0.000425	0.00154
Bromoform		0.000425	U	0.000425	0.00154
Bromomethane		0.000927	U	0.000927	0.00154
2-Butanone (MEK)		0.0162	J	0.00394	0.0386
Carbon disulfide		0.00509		0.00278	0.00386
Carbon tetrachloride		0.000517	U	0.000517	0.00154
Chlorobenzene		0.000517	U	0.000517	0.00154
Chloroethane		0.00147	U	0.00147	0.00386
Chloroform		0.000517	U	0.000517	0.00154
Chloromethane		0.000517	U	0.000517	0.00154
cis-1,2-Dichloroethene		0.000517	U	0.000517	0.00154
cis-1,3-Dichloropropene		0.000517	U	0.000517	0.00154
Dibromochloromethane		0.000263	U	0.000263	0.00154
1,2-Dibromo-3-chloropropane		0.000541	U	0.000541	0.00386
1,2-Dibromoethane		0.000772	U	0.000772	0.00154
1,2-Dichlorobenzene		0.000263	U	0.000263	0.00154
1,3-Dichlorobenzene		0.000517	U	0.000517	0.00154
1,4-Dichlorobenzene		0.000517	U	0.000517	0.00154
Dichlorodifluoromethane		0.000772	U	0.000772	0.00154
1,1-Dichloroethane		0.000517	U	0.000517	0.00154
1,2-Dichloroethane		0.000517	U	0.000517	0.00154
1,1-Dichloroethene		0.000440	U	0.000440	0.00154
1,2-Dichloropropane		0.000726	U	0.000726	0.00154
1,3-Dichloropropane		0.000726	U	0.000726	0.00154
2,2-Dichloropropane		0.000517	U	0.000517	0.00154
1,1-Dichloropropene		0.000394	U	0.000394	0.00154
Ethylbenzene		0.000517	U	0.000517	0.00154
Hexachlorobutadiene		0.000880	U	0.000880	0.00386
2-Hexanone		0.0129	U	0.0129	0.0386
Iodomethane		0.00517	U	0.00517	0.0154
Isopropylbenzene		0.0110		0.000317	0.00154
Methylene bromide		0.000432	U	0.000432	0.00154
Methylene Chloride		0.000664	U	0.000664	0.00772
4-Methyl-2-pentanone (MIBK)		0.00243	J	0.00147	0.0386
Methyl tert butyl ether		0.000741	U	0.000741	0.00154
m,p-Xylene		0.0409		0.000432	0.00309
Naphthalene		0.00131	U	0.00131	0.00386
n-Butylbenzene		0.00257		0.000757	0.00154
N-Propylbenzene		0.0176		0.000517	0.00154
o-Chlorotoluene		0.000687	U	0.000687	0.00154
o-Xylene		0.00256		0.000517	0.00154
p-Chlorotoluene		0.000649	U	0.000649	0.00154

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-461

Lab Sample ID: 490-117346-21 Date Sampled: 11/30/2016 1400
Client Matrix: Solid % Moisture: 14.2 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-18.D
Dilution:	1.0			Initial Weight/Volume:	7.544 g
Analysis Date:	12/09/2016 1829			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.0127		0.000517	0.00154
sec-Butylbenzene		0.00404		0.000517	0.00154
Styrene		0.000849	U	0.000849	0.00154
tert-Butylbenzene		0.00126	J	0.000695	0.00154
1,1,1,2-Tetrachloroethane		0.000517	U	0.000517	0.00154
1,1,2,2-Tetrachloroethane		0.000772	U	0.000772	0.00154
Tetrachloroethene		0.000564	U	0.000564	0.00154
Toluene		0.00426		0.000571	0.00154
trans-1,2-Dichloroethene		0.000517	U	0.000517	0.00154
trans-1,3-Dichloropropene		0.000517	U	0.000517	0.00154
1,2,3-Trichlorobenzene		0.000293	U	0.000293	0.00154
1,2,4-Trichlorobenzene		0.000517	U	0.000517	0.00154
1,1,1-Trichloroethane		0.000710	U	0.000710	0.00154
1,1,2-Trichloroethane		0.00108	U	0.00108	0.00386
Trichloroethene		0.000741	U	0.000741	0.00154
Trichlorofluoromethane		0.000772	U	0.000772	0.00154
1,2,3-Trichloropropane		0.000425	U	0.000425	0.00154
1,2,4-Trimethylbenzene		0.176		0.000772	0.00154
1,3,5-Trimethylbenzene		0.0825		0.000579	0.00154
Vinyl acetate		0.00340	U	0.00340	0.0154
Vinyl chloride		0.000849	U	0.000849	0.00154
Xylenes (total)		0.0435		0.000950	0.00463

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	139	*	70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
Toluene-d8 (Surr)	212	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-461

Lab Sample ID: 490-117346-21 Date Sampled: 11/30/2016 1400
Client Matrix: Solid % Moisture: 14.2 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-18.D
Dilution:	1.0			Initial Weight/Volume:	7.544 g
Analysis Date:	12/09/2016 1829			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1400				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
96-37-7	Cyclopentane, methyl-	3.67	0.468	J N
110-82-7	Cyclohexane	4.13	0.781	E
108-87-2	Methylcyclohexane	4.95	1.65	E
2815-58-9	Cyclopentane, 1,2,4-trimethyl-	5.12	0.321	J N
	Unknown	5.23	0.236	J
	Unknown	5.49	0.213	J
590-66-9	Cyclohexane, 1,1-dimethyl-	5.82	0.347	J N
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.97	0.419	J N
2207-04-7	Cyclohexane, 1,4-dimethyl-, trans-	6.06	0.457	J N
1678-91-7	Cyclohexane, ethyl-	6.45	0.909	J N

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-466

Lab Sample ID: 490-117346-22 Date Sampled: 11/30/2016 1430
Client Matrix: Solid % Moisture: 12.2 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392216	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-47.D
Dilution:	1.0			Initial Weight/Volume:	5.567 g
Analysis Date:	12/07/2016 0951			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.165		0.00859	0.0512
Benzene		0.000686	U	0.000686	0.00205
Bromobenzene		0.000737	U	0.000737	0.00205
Bromochloromethane		0.000563	U	0.000563	0.00205
Bromodichloromethane		0.000563	U	0.000563	0.00205
Bromoform		0.000563	U	0.000563	0.00205
Bromomethane		0.00123	U	0.00123	0.00205
2-Butanone (MEK)		0.0214	J	0.00522	0.0512
Carbon disulfide		0.00368	U	0.00368	0.00512
Carbon tetrachloride		0.000686	U	0.000686	0.00205
Chlorobenzene		0.000686	U	0.000686	0.00205
Chloroethane		0.00194	U	0.00194	0.00512
Chloroform		0.000686	U	0.000686	0.00205
Chloromethane		0.000686	U	0.000686	0.00205
cis-1,2-Dichloroethene		0.000686	U	0.000686	0.00205
cis-1,3-Dichloropropene		0.000686	U	0.000686	0.00205
Dibromochloromethane		0.000348	U	0.000348	0.00205
1,2-Dibromo-3-chloropropane		0.000716	U	0.000716	0.00512
1,2-Dibromoethane		0.00102	U	0.00102	0.00205
1,2-Dichlorobenzene		0.000348	U	0.000348	0.00205
1,3-Dichlorobenzene		0.000686	U	0.000686	0.00205
1,4-Dichlorobenzene		0.000686	U	0.000686	0.00205
Dichlorodifluoromethane		0.00102	U	0.00102	0.00205
1,1-Dichloroethane		0.000686	U	0.000686	0.00205
1,2-Dichloroethane		0.000686	U	0.000686	0.00205
1,1-Dichloroethene		0.000583	U	0.000583	0.00205
1,2-Dichloropropane		0.000962	U	0.000962	0.00205
1,3-Dichloropropane		0.000962	U	0.000962	0.00205
2,2-Dichloropropane		0.000686	U	0.000686	0.00205
1,1-Dichloropropene		0.000522	U	0.000522	0.00205
Ethylbenzene		0.000686	U	0.000686	0.00205
Hexachlorobutadiene		0.00117	U	0.00117	0.00512
2-Hexanone		0.0171	U	0.0171	0.0512
Iodomethane		0.00686	U	0.00686	0.0205
Isopropylbenzene		0.000420	U	0.000420	0.00205
Methylene bromide		0.000573	U	0.000573	0.00205
Methylene Chloride		0.000880	U	0.000880	0.0102
4-Methyl-2-pentanone (MIBK)		0.00194	U	0.00194	0.0512
Methyl tert butyl ether		0.000982	U	0.000982	0.00205
m,p-Xylene		0.000641	J	0.000573	0.00409
Naphthalene		0.00174	U	0.00174	0.00512
n-Butylbenzene		0.00100	U	0.00100	0.00205
N-Propylbenzene		0.000686	U	0.000686	0.00205
o-Chlorotoluene		0.000911	U	0.000911	0.00205
o-Xylene		0.000686	U	0.000686	0.00205
p-Chlorotoluene		0.000859	U	0.000859	0.00205

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-466

Lab Sample ID: 490-117346-22 Date Sampled: 11/30/2016 1430
Client Matrix: Solid % Moisture: 12.2 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392216	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-47.D
Dilution:	1.0			Initial Weight/Volume:	5.567 g
Analysis Date:	12/07/2016 0951			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000686	U	0.000686	0.00205
sec-Butylbenzene		0.000686	U	0.000686	0.00205
Styrene		0.00113	U	0.00113	0.00205
tert-Butylbenzene		0.000921	U	0.000921	0.00205
1,1,1,2-Tetrachloroethane		0.000686	U	0.000686	0.00205
1,1,2,2-Tetrachloroethane		0.00102	U	0.00102	0.00205
Tetrachloroethene		0.000747	U	0.000747	0.00205
Toluene		0.000757	U	0.000757	0.00205
trans-1,2-Dichloroethene		0.000686	U	0.000686	0.00205
trans-1,3-Dichloropropene		0.000686	U	0.000686	0.00205
1,2,3-Trichlorobenzene		0.000389	U	0.000389	0.00205
1,2,4-Trichlorobenzene		0.000686	U	0.000686	0.00205
1,1,1-Trichloroethane		0.000941	U	0.000941	0.00205
1,1,2-Trichloroethane		0.00143	U	0.00143	0.00512
Trichloroethene		0.000982	U	0.000982	0.00205
Trichlorofluoromethane		0.00102	U	0.00102	0.00205
1,2,3-Trichloropropane		0.000563	U	0.000563	0.00205
1,3,5-Trimethylbenzene		0.000767	U	0.000767	0.00205
Vinyl acetate		0.00450	U	0.00450	0.0205
Vinyl chloride		0.00113	U	0.00113	0.00205
Xylenes (total)		0.00126	U	0.00126	0.00614

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-466

Lab Sample ID: 490-117346-22 Date Sampled: 11/30/2016 1430
Client Matrix: Solid % Moisture: 12.2 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392216	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-47.D
Dilution:	1.0			Initial Weight/Volume:	5.567 g
Analysis Date:	12/07/2016 0951			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1430				

Tentatively Identified Compounds **Number TIC's Found: 2**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
	Unknown	1.82	0.00837	J
108-87-2	Methylcyclohexane	4.94	0.000786	J

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-466

Lab Sample ID: 490-117346-22 Date Sampled: 11/30/2016 1430
Client Matrix: Solid % Moisture: 12.2 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393855	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	121316-12.D
Dilution:	1.0			Initial Weight/Volume:	5.588 g
Analysis Date:	12/13/2016 1616			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,2,4-Trimethylbenzene		0.00102	U	0.00102	0.00204

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-462

Lab Sample ID: 490-117346-23 Date Sampled: 11/30/2016 1415
Client Matrix: Solid % Moisture: 12.4 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-15.D
Dilution:	1.0			Initial Weight/Volume:	6.363 g
Analysis Date:	12/09/2016 1656			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1415				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.280		0.00754	0.0449
Benzene		0.000601	U	0.000601	0.00179
Bromochloromethane		0.000494	U	0.000494	0.00179
Bromodichloromethane		0.000494	U	0.000494	0.00179
Bromoform		0.000494	U	0.000494	0.00179
Bromomethane		0.00108	U	0.00108	0.00179
2-Butanone (MEK)		0.0684		0.00458	0.0449
Carbon disulfide		0.00323	U	0.00323	0.00449
Carbon tetrachloride		0.000601	U	0.000601	0.00179
Chlorobenzene		0.000601	U	0.000601	0.00179
Chloroethane		0.00171	U	0.00171	0.00449
Chloroform		0.000601	U	0.000601	0.00179
Chloromethane		0.000601	U	0.000601	0.00179
cis-1,2-Dichloroethene		0.000601	U	0.000601	0.00179
cis-1,3-Dichloropropene		0.000601	U	0.000601	0.00179
Dibromochloromethane		0.000305	U	0.000305	0.00179
1,2-Dibromoethane		0.000897	U	0.000897	0.00179
Dichlorodifluoromethane		0.000897	U	0.000897	0.00179
1,1-Dichloroethane		0.000601	U	0.000601	0.00179
1,2-Dichloroethane		0.000601	U	0.000601	0.00179
1,1-Dichloroethene		0.000512	U	0.000512	0.00179
1,2-Dichloropropane		0.000844	U	0.000844	0.00179
1,3-Dichloropropane		0.000844	U	0.000844	0.00179
2,2-Dichloropropane		0.000601	U	0.000601	0.00179
1,1-Dichloropropene		0.000458	U	0.000458	0.00179
Ethylbenzene		0.000601	U	0.000601	0.00179
2-Hexanone		0.0150	U	0.0150	0.0449
Iodomethane		0.00601	U	0.00601	0.0179
Isopropylbenzene		0.000368	U	0.000368	0.00179
Methylene bromide		0.000503	U	0.000503	0.00179
Methylene Chloride		0.000772	U	0.000772	0.00897
4-Methyl-2-pentanone (MIBK)		0.00704	J	0.00171	0.0449
Methyl tert butyl ether		0.000861	U	0.000861	0.00179
m,p-Xylene		0.00313	J	0.000503	0.00359
o-Xylene		0.00107	J	0.000601	0.00179
Styrene		0.000987	U	0.000987	0.00179
1,1,1,2-Tetrachloroethane		0.000601	U	0.000601	0.00179
Tetrachloroethene		0.000655	U	0.000655	0.00179
Toluene		0.000664	U	0.000664	0.00179
trans-1,2-Dichloroethene		0.000601	U	0.000601	0.00179
trans-1,3-Dichloropropene		0.000601	U	0.000601	0.00179
1,1,1-Trichloroethane		0.000826	U	0.000826	0.00179
1,1,2-Trichloroethane		0.00126	U	0.00126	0.00449
Trichloroethene		0.000861	U	0.000861	0.00179
Trichlorofluoromethane		0.000897	U	0.000897	0.00179
Vinyl acetate		0.00395	U	0.00395	0.0179

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-462

Lab Sample ID: 490-117346-23 Date Sampled: 11/30/2016 1415
Client Matrix: Solid % Moisture: 12.4 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-15.D
Dilution:	1.0			Initial Weight/Volume:	6.363 g
Analysis Date:	12/09/2016 1656			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1415				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl chloride		0.000987	U	0.000987	0.00179
Xylenes (total)		0.00420	J	0.00110	0.00538

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	117	*	70 - 130
Dibromofluoromethane (Surr)	110		70 - 130
1,2-Dichloroethane-d4 (Surr)	114		70 - 130
Toluene-d8 (Surr)	113		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-462

Lab Sample ID: 490-117346-23 Date Sampled: 11/30/2016 1415
Client Matrix: Solid % Moisture: 12.4 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-15.D
Dilution:	1.0			Initial Weight/Volume:	6.363 g
Analysis Date:	12/09/2016 1656			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1415				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
3073-66-3	Cyclohexane, 1,1,3-trimethyl-	6.49	0.123	J N
	Unknown	7.71	0.358	J
	Unknown	8.12	0.146	J
	Unknown	8.98	0.183	J
	Unknown	9.60	0.177	J
	Unknown	9.71	0.198	J
4292-92-6	Cyclohexane, pentyl-	10.15	0.120	J N
2958-76-1	Naphthalene, decahydro-2-methyl-	10.32	0.145	J N
	Unknown	10.97	0.318	J
	Unknown	11.58	0.235	J

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-462

Lab Sample ID: 490-117346-23 Date Sampled: 11/30/2016 1415
Client Matrix: Solid % Moisture: 12.4 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392335	Instrument ID:	HP68
Prep Method:	5035A	Prep Batch:	490-391833	Lab File ID:	12071622.D
Dilution:	1.0			Initial Weight/Volume:	8.632 g
Analysis Date:	12/07/2016 2150			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1415				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0289	U	0.0289	0.0804
1,2-Dibromo-3-chloropropane		0.0281	U	0.0281	0.201
1,2-Dichlorobenzene		0.0137	U	0.0137	0.0804
1,3-Dichlorobenzene		0.0273	U	0.0273	0.0804
1,4-Dichlorobenzene		0.0378	U	0.0378	0.0804
Hexachlorobutadiene		0.0442	U	0.0442	0.201
Naphthalene		0.0683	U	0.0683	0.201
n-Butylbenzene		0.0402	U	0.0402	0.0804
N-Propylbenzene		0.0273	U	0.0273	0.0804
o-Chlorotoluene		0.0370	U	0.0370	0.0804
p-Chlorotoluene		0.0337	U	0.0337	0.0804
p-Isopropyltoluene		0.0273	U	0.0273	0.0804
sec-Butylbenzene		0.0273	U	0.0273	0.0804
tert-Butylbenzene		0.0402	U	0.0402	0.0804
1,1,2,2-Tetrachloroethane		0.0402	U	0.0402	0.0804
1,2,3-Trichlorobenzene		0.0153	U	0.0153	0.0804
1,2,4-Trichlorobenzene		0.0273	U	0.0273	0.0804
1,2,3-Trichloropropane		0.0225	U	0.0225	0.0804
1,2,4-Trimethylbenzene		0.0402	U	0.0402	0.0804
1,3,5-Trimethylbenzene		0.0305	U	0.0305	0.0804

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
Dibromofluoromethane (Surr)	105		70 - 130
1,2-Dichloroethane-d4 (Surr)	107		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 490-117346-24 Date Sampled: 11/28/2016 0001
Client Matrix: Solid Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-391971	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-14.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Analysis Date:	12/06/2016 1658			Final Weight/Volume:	5.0 mL
Prep Date:	12/01/2016 0001				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.00840	U	0.00840	0.0500
Benzene		0.000670	U	0.000670	0.00200
Bromobenzene		0.000720	U	0.000720	0.00200
Bromochloromethane		0.000550	U	0.000550	0.00200
Bromodichloromethane		0.000550	U	0.000550	0.00200
Bromoform		0.000550	U	0.000550	0.00200
Bromomethane		0.00120	U	0.00120	0.00200
2-Butanone (MEK)		0.00510	U	0.00510	0.0500
Carbon disulfide		0.00360	U	0.00360	0.00500
Carbon tetrachloride		0.000670	U	0.000670	0.00200
Chlorobenzene		0.000670	U	0.000670	0.00200
Chloroethane		0.00190	U	0.00190	0.00500
Chloroform		0.000670	U	0.000670	0.00200
Chloromethane		0.000670	U	0.000670	0.00200
cis-1,2-Dichloroethene		0.000670	U	0.000670	0.00200
cis-1,3-Dichloropropene		0.000670	U	0.000670	0.00200
Dibromochloromethane		0.000340	U	0.000340	0.00200
1,2-Dibromo-3-chloropropane		0.000700	U	0.000700	0.00500
1,2-Dibromoethane		0.00100	U	0.00100	0.00200
1,2-Dichlorobenzene		0.000340	U	0.000340	0.00200
1,3-Dichlorobenzene		0.000670	U	0.000670	0.00200
1,4-Dichlorobenzene		0.000670	U	0.000670	0.00200
Dichlorodifluoromethane		0.00100	U	0.00100	0.00200
1,1-Dichloroethane		0.000670	U	0.000670	0.00200
1,2-Dichloroethane		0.000670	U	0.000670	0.00200
1,1-Dichloroethene		0.000570	U	0.000570	0.00200
1,2-Dichloropropane		0.000940	U	0.000940	0.00200
1,3-Dichloropropane		0.000940	U	0.000940	0.00200
2,2-Dichloropropane		0.000670	U	0.000670	0.00200
1,1-Dichloropropene		0.000510	U	0.000510	0.00200
Ethylbenzene		0.000670	U	0.000670	0.00200
Hexachlorobutadiene		0.00114	U	0.00114	0.00500
2-Hexanone		0.0167	U	0.0167	0.0500
Iodomethane		0.00670	U	0.00670	0.0200
Isopropylbenzene		0.000410	U	0.000410	0.00200
Methylene bromide		0.000560	U	0.000560	0.00200
Methylene Chloride		0.000860	U	0.000860	0.0100
4-Methyl-2-pentanone (MIBK)		0.00190	U	0.00190	0.0500
Methyl tert butyl ether		0.000960	U	0.000960	0.00200
m,p-Xylene		0.000560	U	0.000560	0.00400
Naphthalene		0.00170	U	0.00170	0.00500
n-Butylbenzene		0.000980	U	0.000980	0.00200
N-Propylbenzene		0.000670	U	0.000670	0.00200
o-Chlorotoluene		0.000890	U	0.000890	0.00200
o-Xylene		0.000670	U	0.000670	0.00200
p-Chlorotoluene		0.000840	U	0.000840	0.00200

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 490-117346-24 Date Sampled: 11/28/2016 0001
Client Matrix: Solid Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-391971	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-14.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Analysis Date:	12/06/2016 1658			Final Weight/Volume:	5.0 mL
Prep Date:	12/01/2016 0001				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000670	U	0.000670	0.00200
sec-Butylbenzene		0.000670	U	0.000670	0.00200
Styrene		0.00110	U	0.00110	0.00200
tert-Butylbenzene		0.000900	U	0.000900	0.00200
1,1,1,2-Tetrachloroethane		0.000670	U	0.000670	0.00200
1,1,2,2-Tetrachloroethane		0.00100	U	0.00100	0.00200
Tetrachloroethene		0.000730	U	0.000730	0.00200
Toluene		0.000740	U	0.000740	0.00200
trans-1,2-Dichloroethene		0.000670	U	0.000670	0.00200
trans-1,3-Dichloropropene		0.000670	U	0.000670	0.00200
1,2,3-Trichlorobenzene		0.000380	U	0.000380	0.00200
1,2,4-Trichlorobenzene		0.000670	U	0.000670	0.00200
1,1,1-Trichloroethane		0.000920	U	0.000920	0.00200
1,1,2-Trichloroethane		0.00140	U	0.00140	0.00500
Trichloroethene		0.000960	U	0.000960	0.00200
Trichlorofluoromethane		0.00100	U	0.00100	0.00200
1,2,3-Trichloropropane		0.000550	U	0.000550	0.00200
1,2,4-Trimethylbenzene		0.00100	U	0.00100	0.00200
1,3,5-Trimethylbenzene		0.000750	U	0.000750	0.00200
Vinyl acetate		0.00440	U	0.00440	0.0200
Vinyl chloride		0.00110	U	0.00110	0.00200
Xylenes (total)		0.00123	U	0.00123	0.00600

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	105		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 490-117346-24 Date Sampled: 11/28/2016 0001
Client Matrix: Solid Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-391971	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120616-14.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Analysis Date:	12/06/2016 1658			Final Weight/Volume:	5.0 mL
Prep Date:	12/01/2016 0001				

Tentatively Identified Compounds **Number TIC's Found: 0**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-465

Lab Sample ID: 490-117346-25 Date Sampled: 11/30/2016 1415
Client Matrix: Solid % Moisture: 8.9 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-14.D
Dilution:	1.0			Initial Weight/Volume:	5.214 g
Analysis Date:	12/09/2016 1626			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1414				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0393	J	0.00884	0.0526
Benzene		0.000705	U	0.000705	0.00211
Bromobenzene		0.000758	U	0.000758	0.00211
Bromochloromethane		0.000579	U	0.000579	0.00211
Bromodichloromethane		0.000579	U	0.000579	0.00211
Bromoform		0.000579	U	0.000579	0.00211
Bromomethane		0.00126	U	0.00126	0.00211
2-Butanone (MEK)		0.00537	U	0.00537	0.0526
Carbon disulfide		0.00379	U	0.00379	0.00526
Carbon tetrachloride		0.000705	U	0.000705	0.00211
Chlorobenzene		0.000705	U	0.000705	0.00211
Chloroethane		0.00200	U	0.00200	0.00526
Chloroform		0.000705	U	0.000705	0.00211
Chloromethane		0.000705	U	0.000705	0.00211
cis-1,2-Dichloroethene		0.000705	U	0.000705	0.00211
cis-1,3-Dichloropropene		0.000705	U	0.000705	0.00211
Dibromochloromethane		0.000358	U	0.000358	0.00211
1,2-Dibromo-3-chloropropane		0.000737	U	0.000737	0.00526
1,2-Dibromoethane		0.00105	U	0.00105	0.00211
1,2-Dichlorobenzene		0.000358	U	0.000358	0.00211
1,3-Dichlorobenzene		0.000705	U	0.000705	0.00211
1,4-Dichlorobenzene		0.000705	U	0.000705	0.00211
Dichlorodifluoromethane		0.00105	U	0.00105	0.00211
1,1-Dichloroethane		0.000705	U	0.000705	0.00211
1,2-Dichloroethane		0.000705	U	0.000705	0.00211
1,1-Dichloroethene		0.000600	U	0.000600	0.00211
1,2-Dichloropropane		0.000990	U	0.000990	0.00211
1,3-Dichloropropane		0.000990	U	0.000990	0.00211
2,2-Dichloropropane		0.000705	U	0.000705	0.00211
1,1-Dichloropropene		0.000537	U	0.000537	0.00211
Ethylbenzene		0.000705	U	0.000705	0.00211
Hexachlorobutadiene		0.00120	U	0.00120	0.00526
2-Hexanone		0.0176	U	0.0176	0.0526
Iodomethane		0.00705	U	0.00705	0.0211
Isopropylbenzene		0.000432	U	0.000432	0.00211
Methylene bromide		0.000590	U	0.000590	0.00211
Methylene Chloride		0.000906	U	0.000906	0.0105
4-Methyl-2-pentanone (MIBK)		0.00200	U	0.00200	0.0526
Methyl tert butyl ether		0.00101	U	0.00101	0.00211
m,p-Xylene		0.000590	U	0.000590	0.00421
Naphthalene		0.00179	U	0.00179	0.00526
n-Butylbenzene		0.00103	U	0.00103	0.00211
N-Propylbenzene		0.000705	U	0.000705	0.00211
o-Chlorotoluene		0.000937	U	0.000937	0.00211
o-Xylene		0.000705	U	0.000705	0.00211
p-Chlorotoluene		0.000884	U	0.000884	0.00211

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-465

Lab Sample ID: 490-117346-25 Date Sampled: 11/30/2016 1415
Client Matrix: Solid % Moisture: 8.9 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-14.D
Dilution:	1.0			Initial Weight/Volume:	5.214 g
Analysis Date:	12/09/2016 1626			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1414				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000705	U	0.000705	0.00211
sec-Butylbenzene		0.000705	U	0.000705	0.00211
Styrene		0.00116	U	0.00116	0.00211
tert-Butylbenzene		0.000948	U	0.000948	0.00211
1,1,1,2-Tetrachloroethane		0.000705	U	0.000705	0.00211
1,1,2,2-Tetrachloroethane		0.00105	U	0.00105	0.00211
Tetrachloroethene		0.000769	U	0.000769	0.00211
Toluene		0.000779	U	0.000779	0.00211
trans-1,2-Dichloroethene		0.000705	U	0.000705	0.00211
trans-1,3-Dichloropropene		0.000705	U	0.000705	0.00211
1,2,3-Trichlorobenzene		0.000400	U	0.000400	0.00211
1,2,4-Trichlorobenzene		0.000705	U	0.000705	0.00211
1,1,1-Trichloroethane		0.000969	U	0.000969	0.00211
1,1,2-Trichloroethane		0.00147	U	0.00147	0.00526
Trichloroethene		0.00101	U	0.00101	0.00211
Trichlorofluoromethane		0.00105	U	0.00105	0.00211
1,2,3-Trichloropropane		0.000579	U	0.000579	0.00211
1,2,4-Trimethylbenzene		0.00105	U	0.00105	0.00211
1,3,5-Trimethylbenzene		0.000790	U	0.000790	0.00211
Vinyl acetate		0.00463	U	0.00463	0.0211
Vinyl chloride		0.00116	U	0.00116	0.00211
Xylenes (total)		0.00130	U	0.00130	0.00632

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
Toluene-d8 (Surr)	94		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-465

Lab Sample ID: 490-117346-25 Date Sampled: 11/30/2016 1415
Client Matrix: Solid % Moisture: 8.9 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-14.D
Dilution:	1.0			Initial Weight/Volume:	5.214 g
Analysis Date:	12/09/2016 1626			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1414				

Tentatively Identified Compounds **Number TIC's Found: 0**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-463

Lab Sample ID: 490-117346-26 Date Sampled: 11/30/2016 1415
Client Matrix: Solid % Moisture: 10.5 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-13.D
Dilution:	1.0			Initial Weight/Volume:	5.553 g
Analysis Date:	12/09/2016 1556			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1414				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0470	J	0.00845	0.0503
Benzene		0.000674	U	0.000674	0.00201
Bromobenzene		0.000724	U	0.000724	0.00201
Bromochloromethane		0.000553	U	0.000553	0.00201
Bromodichloromethane		0.000553	U	0.000553	0.00201
Bromoform		0.000553	U	0.000553	0.00201
Bromomethane		0.00121	U	0.00121	0.00201
2-Butanone (MEK)		0.00513	U	0.00513	0.0503
Carbon disulfide		0.00362	U	0.00362	0.00503
Carbon tetrachloride		0.000674	U	0.000674	0.00201
Chlorobenzene		0.000674	U	0.000674	0.00201
Chloroethane		0.00191	U	0.00191	0.00503
Chloroform		0.000674	U	0.000674	0.00201
Chloromethane		0.000674	U	0.000674	0.00201
cis-1,2-Dichloroethene		0.000674	U	0.000674	0.00201
cis-1,3-Dichloropropene		0.000674	U	0.000674	0.00201
Dibromochloromethane		0.000342	U	0.000342	0.00201
1,2-Dibromo-3-chloropropane		0.000704	U	0.000704	0.00503
1,2-Dibromoethane		0.00101	U	0.00101	0.00201
1,2-Dichlorobenzene		0.000342	U	0.000342	0.00201
1,3-Dichlorobenzene		0.000674	U	0.000674	0.00201
1,4-Dichlorobenzene		0.000674	U	0.000674	0.00201
Dichlorodifluoromethane		0.00101	U	0.00101	0.00201
1,1-Dichloroethane		0.000674	U	0.000674	0.00201
1,2-Dichloroethane		0.000674	U	0.000674	0.00201
1,1-Dichloroethene		0.000573	U	0.000573	0.00201
1,2-Dichloropropane		0.000946	U	0.000946	0.00201
1,3-Dichloropropane		0.000946	U	0.000946	0.00201
2,2-Dichloropropane		0.000674	U	0.000674	0.00201
1,1-Dichloropropene		0.000513	U	0.000513	0.00201
Ethylbenzene		0.000674	U	0.000674	0.00201
Hexachlorobutadiene		0.00115	U	0.00115	0.00503
2-Hexanone		0.0168	U	0.0168	0.0503
Iodomethane		0.00674	U	0.00674	0.0201
Isopropylbenzene		0.000412	U	0.000412	0.00201
Methylene bromide		0.000563	U	0.000563	0.00201
Methylene Chloride		0.000865	U	0.000865	0.0101
4-Methyl-2-pentanone (MIBK)		0.00191	U	0.00191	0.0503
Methyl tert butyl ether		0.000966	U	0.000966	0.00201
m,p-Xylene		0.000563	U	0.000563	0.00402
Naphthalene		0.00171	U	0.00171	0.00503
n-Butylbenzene		0.000986	U	0.000986	0.00201
N-Propylbenzene		0.000674	U	0.000674	0.00201
o-Chlorotoluene		0.000895	U	0.000895	0.00201
o-Xylene		0.000674	U	0.000674	0.00201
p-Chlorotoluene		0.000845	U	0.000845	0.00201

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-463

Lab Sample ID: 490-117346-26 Date Sampled: 11/30/2016 1415
Client Matrix: Solid % Moisture: 10.5 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-13.D
Dilution:	1.0			Initial Weight/Volume:	5.553 g
Analysis Date:	12/09/2016 1556			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1414				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000674	U	0.000674	0.00201
sec-Butylbenzene		0.000674	U	0.000674	0.00201
Styrene		0.00111	U	0.00111	0.00201
tert-Butylbenzene		0.000905	U	0.000905	0.00201
1,1,1,2-Tetrachloroethane		0.000674	U	0.000674	0.00201
1,1,2,2-Tetrachloroethane		0.00101	U	0.00101	0.00201
Tetrachloroethene		0.000734	U	0.000734	0.00201
Toluene		0.000744	U	0.000744	0.00201
trans-1,2-Dichloroethene		0.000674	U	0.000674	0.00201
trans-1,3-Dichloropropene		0.000674	U	0.000674	0.00201
1,2,3-Trichlorobenzene		0.000382	U	0.000382	0.00201
1,2,4-Trichlorobenzene		0.000674	U	0.000674	0.00201
1,1,1-Trichloroethane		0.000926	U	0.000926	0.00201
1,1,2-Trichloroethane		0.00141	U	0.00141	0.00503
Trichloroethene		0.000966	U	0.000966	0.00201
Trichlorofluoromethane		0.00101	U	0.00101	0.00201
1,2,3-Trichloropropane		0.000553	U	0.000553	0.00201
1,2,4-Trimethylbenzene		0.00101	U	0.00101	0.00201
1,3,5-Trimethylbenzene		0.000754	U	0.000754	0.00201
Vinyl acetate		0.00443	U	0.00443	0.0201
Vinyl chloride		0.00111	U	0.00111	0.00201
Xylenes (total)		0.00124	U	0.00124	0.00604

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
Toluene-d8 (Surr)	94		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-463

Lab Sample ID: 490-117346-26 Date Sampled: 11/30/2016 1415
Client Matrix: Solid % Moisture: 10.5 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-13.D
Dilution:	1.0			Initial Weight/Volume:	5.553 g
Analysis Date:	12/09/2016 1556			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1414				

Tentatively Identified Compounds **Number TIC's Found: 5**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
67-63-0	Isopropyl alcohol	2.72	0.0157	J
110-54-3	Hexane	3.25	0.000559	J
71-36-3	n-Butanol	4.71	0.0497	J
	Unknown	5.02	0.00513	J
	Unknown	6.36	0.00509	J

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-464

Lab Sample ID: 490-117346-27 Date Sampled: 11/30/2016 1415
Client Matrix: Solid % Moisture: 11.0 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-12.D
Dilution:	1.0			Initial Weight/Volume:	5.506 g
Analysis Date:	12/09/2016 1525			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1414				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0543		0.00857	0.0510
Benzene		0.000713	J	0.000684	0.00204
Bromobenzene		0.000735	U	0.000735	0.00204
Bromochloromethane		0.000561	U	0.000561	0.00204
Bromodichloromethane		0.000561	U	0.000561	0.00204
Bromoform		0.000561	U	0.000561	0.00204
Bromomethane		0.00122	U	0.00122	0.00204
2-Butanone (MEK)		0.00521	U	0.00521	0.0510
Carbon disulfide		0.00367	U	0.00367	0.00510
Carbon tetrachloride		0.000684	U	0.000684	0.00204
Chlorobenzene		0.000684	U	0.000684	0.00204
Chloroethane		0.00194	U	0.00194	0.00510
Chloroform		0.000684	U	0.000684	0.00204
Chloromethane		0.000684	U	0.000684	0.00204
cis-1,2-Dichloroethene		0.000684	U	0.000684	0.00204
cis-1,3-Dichloropropene		0.000684	U	0.000684	0.00204
Dibromochloromethane		0.000347	U	0.000347	0.00204
1,2-Dibromo-3-chloropropane		0.000714	U	0.000714	0.00510
1,2-Dibromoethane		0.00102	U	0.00102	0.00204
1,2-Dichlorobenzene		0.000347	U	0.000347	0.00204
1,3-Dichlorobenzene		0.000684	U	0.000684	0.00204
1,4-Dichlorobenzene		0.000684	U	0.000684	0.00204
Dichlorodifluoromethane		0.00102	U	0.00102	0.00204
1,1-Dichloroethane		0.000684	U	0.000684	0.00204
1,2-Dichloroethane		0.000684	U	0.000684	0.00204
1,1-Dichloroethene		0.000582	U	0.000582	0.00204
1,2-Dichloropropane		0.000959	U	0.000959	0.00204
1,3-Dichloropropane		0.000959	U	0.000959	0.00204
2,2-Dichloropropane		0.000684	U	0.000684	0.00204
1,1-Dichloropropene		0.000521	U	0.000521	0.00204
Ethylbenzene		0.000684	U	0.000684	0.00204
Hexachlorobutadiene		0.00116	U	0.00116	0.00510
2-Hexanone		0.0170	U	0.0170	0.0510
Iodomethane		0.00684	U	0.00684	0.0204
Isopropylbenzene		0.000418	U	0.000418	0.00204
Methylene bromide		0.000572	U	0.000572	0.00204
Methylene Chloride		0.000878	U	0.000878	0.0102
4-Methyl-2-pentanone (MIBK)		0.00194	U	0.00194	0.0510
Methyl tert butyl ether		0.000980	U	0.000980	0.00204
m,p-Xylene		0.000572	U	0.000572	0.00408
Naphthalene		0.00174	U	0.00174	0.00510
n-Butylbenzene		0.00100	U	0.00100	0.00204
N-Propylbenzene		0.000684	U	0.000684	0.00204
o-Chlorotoluene		0.000908	U	0.000908	0.00204
o-Xylene		0.000684	U	0.000684	0.00204
p-Chlorotoluene		0.000857	U	0.000857	0.00204

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-464

Lab Sample ID: 490-117346-27 Date Sampled: 11/30/2016 1415
Client Matrix: Solid % Moisture: 11.0 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-12.D
Dilution:	1.0			Initial Weight/Volume:	5.506 g
Analysis Date:	12/09/2016 1525			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1414				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000684	U	0.000684	0.00204
sec-Butylbenzene		0.000684	U	0.000684	0.00204
Styrene		0.00112	U	0.00112	0.00204
tert-Butylbenzene		0.000919	U	0.000919	0.00204
1,1,1,2-Tetrachloroethane		0.000684	U	0.000684	0.00204
1,1,2,2-Tetrachloroethane		0.00102	U	0.00102	0.00204
Tetrachloroethene		0.000745	U	0.000745	0.00204
Toluene		0.000755	U	0.000755	0.00204
trans-1,2-Dichloroethene		0.000684	U	0.000684	0.00204
trans-1,3-Dichloropropene		0.000684	U	0.000684	0.00204
1,2,3-Trichlorobenzene		0.000388	U	0.000388	0.00204
1,2,4-Trichlorobenzene		0.000684	U	0.000684	0.00204
1,1,1-Trichloroethane		0.000939	U	0.000939	0.00204
1,1,2-Trichloroethane		0.00143	U	0.00143	0.00510
Trichloroethene		0.000980	U	0.000980	0.00204
Trichlorofluoromethane		0.00102	U	0.00102	0.00204
1,2,3-Trichloropropane		0.000561	U	0.000561	0.00204
1,2,4-Trimethylbenzene		0.00102	U	0.00102	0.00204
1,3,5-Trimethylbenzene		0.000765	U	0.000765	0.00204
Vinyl acetate		0.00449	U	0.00449	0.0204
Vinyl chloride		0.00112	U	0.00112	0.00204
Xylenes (total)		0.00126	U	0.00126	0.00612

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-464

Lab Sample ID: 490-117346-27 Date Sampled: 11/30/2016 1415
Client Matrix: Solid % Moisture: 11.0 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-12.D
Dilution:	1.0			Initial Weight/Volume:	5.506 g
Analysis Date:	12/09/2016 1525			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1414				

Tentatively Identified Compounds **Number TIC's Found: 4**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
110-82-7	Cyclohexane	4.13	0.000854	J
108-87-2	Methylcyclohexane	4.94	0.00182	J
	Unknown	13.10	0.00722	J
	Unknown	13.29	0.00717	J

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-467

Lab Sample ID: 490-117346-28 Date Sampled: 11/30/2016 1430
Client Matrix: Solid % Moisture: 10.3 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-11.D
Dilution:	1.0			Initial Weight/Volume:	4.953 g
Analysis Date:	12/09/2016 1455			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1414				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0587		0.00945	0.0563
Benzene		0.000754	U	0.000754	0.00225
Bromobenzene		0.000810	U	0.000810	0.00225
Bromochloromethane		0.000619	U	0.000619	0.00225
Bromodichloromethane		0.000619	U	0.000619	0.00225
Bromoform		0.000619	U	0.000619	0.00225
Bromomethane		0.00135	U	0.00135	0.00225
2-Butanone (MEK)		0.00880	J	0.00574	0.0563
Carbon disulfide		0.00405	U	0.00405	0.00563
Carbon tetrachloride		0.000754	U	0.000754	0.00225
Chlorobenzene		0.000754	U	0.000754	0.00225
Chloroethane		0.00214	U	0.00214	0.00563
Chloroform		0.000754	U	0.000754	0.00225
Chloromethane		0.000754	U	0.000754	0.00225
cis-1,2-Dichloroethene		0.000754	U	0.000754	0.00225
cis-1,3-Dichloropropene		0.000754	U	0.000754	0.00225
Dibromochloromethane		0.000383	U	0.000383	0.00225
1,2-Dibromo-3-chloropropane		0.000788	U	0.000788	0.00563
1,2-Dibromoethane		0.00113	U	0.00113	0.00225
1,2-Dichlorobenzene		0.000383	U	0.000383	0.00225
1,3-Dichlorobenzene		0.000754	U	0.000754	0.00225
1,4-Dichlorobenzene		0.000754	U	0.000754	0.00225
Dichlorodifluoromethane		0.00113	U	0.00113	0.00225
1,1-Dichloroethane		0.000754	U	0.000754	0.00225
1,2-Dichloroethane		0.000754	U	0.000754	0.00225
1,1-Dichloroethene		0.000641	U	0.000641	0.00225
1,2-Dichloropropane		0.00106	U	0.00106	0.00225
1,3-Dichloropropane		0.00106	U	0.00106	0.00225
2,2-Dichloropropane		0.000754	U	0.000754	0.00225
1,1-Dichloropropene		0.000574	U	0.000574	0.00225
Ethylbenzene		0.000754	U	0.000754	0.00225
Hexachlorobutadiene		0.00128	U	0.00128	0.00563
2-Hexanone		0.0188	U	0.0188	0.0563
Iodomethane		0.00754	U	0.00754	0.0225
Isopropylbenzene		0.000461	U	0.000461	0.00225
Methylene bromide		0.000630	U	0.000630	0.00225
Methylene Chloride		0.000968	U	0.000968	0.0113
4-Methyl-2-pentanone (MIBK)		0.00214	U	0.00214	0.0563
Methyl tert butyl ether		0.00108	U	0.00108	0.00225
m,p-Xylene		0.000630	U	0.000630	0.00450
Naphthalene		0.00191	U	0.00191	0.00563
n-Butylbenzene		0.00110	U	0.00110	0.00225
N-Propylbenzene		0.000754	U	0.000754	0.00225
o-Chlorotoluene		0.00100	U	0.00100	0.00225
o-Xylene		0.000754	U	0.000754	0.00225
p-Chlorotoluene		0.000945	U	0.000945	0.00225

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-467

Lab Sample ID: 490-117346-28 Date Sampled: 11/30/2016 1430
Client Matrix: Solid % Moisture: 10.3 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-11.D
Dilution:	1.0			Initial Weight/Volume:	4.953 g
Analysis Date:	12/09/2016 1455			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1414				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000754	U	0.000754	0.00225
sec-Butylbenzene		0.000754	U	0.000754	0.00225
Styrene		0.00124	U	0.00124	0.00225
tert-Butylbenzene		0.00101	U	0.00101	0.00225
1,1,1,2-Tetrachloroethane		0.000754	U	0.000754	0.00225
1,1,2,2-Tetrachloroethane		0.00113	U	0.00113	0.00225
Tetrachloroethene		0.000821	U	0.000821	0.00225
Toluene		0.000833	U	0.000833	0.00225
trans-1,2-Dichloroethene		0.000754	U	0.000754	0.00225
trans-1,3-Dichloropropene		0.000754	U	0.000754	0.00225
1,2,3-Trichlorobenzene		0.000428	U	0.000428	0.00225
1,2,4-Trichlorobenzene		0.000754	U	0.000754	0.00225
1,1,1-Trichloroethane		0.00104	U	0.00104	0.00225
1,1,2-Trichloroethane		0.00158	U	0.00158	0.00563
Trichloroethene		0.00108	U	0.00108	0.00225
Trichlorofluoromethane		0.00113	U	0.00113	0.00225
1,2,3-Trichloropropane		0.000619	U	0.000619	0.00225
1,2,4-Trimethylbenzene		0.00113	U	0.00113	0.00225
1,3,5-Trimethylbenzene		0.000844	U	0.000844	0.00225
Vinyl acetate		0.00495	U *	0.00495	0.0225
Vinyl chloride		0.00124	U	0.00124	0.00225
Xylenes (total)		0.00138	U	0.00138	0.00675

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-467

Lab Sample ID: 490-117346-28 Date Sampled: 11/30/2016 1430
Client Matrix: Solid % Moisture: 10.3 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393067	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391835	Lab File ID:	120916-11.D
Dilution:	1.0			Initial Weight/Volume:	4.953 g
Analysis Date:	12/09/2016 1455			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1414				

Tentatively Identified Compounds **Number TIC's Found: 0**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END 451

Lab Sample ID: 490-117346-29 Date Sampled: 11/28/2016 1600
Client Matrix: Solid % Moisture: 9.0 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392216	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391853	Lab File ID:	120616-36.D
Dilution:	1.0			Initial Weight/Volume:	6.294 g
Analysis Date:	12/07/2016 0412			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0816		0.00733	0.0436
Benzene		0.00906		0.000585	0.00175
Bromobenzene		0.000628	U	0.000628	0.00175
Bromochloromethane		0.000480	U	0.000480	0.00175
Bromodichloromethane		0.000480	U	0.000480	0.00175
Bromoform		0.000480	U	0.000480	0.00175
Bromomethane		0.00105	U	0.00105	0.00175
2-Butanone (MEK)		0.0173	J	0.00445	0.0436
Carbon disulfide		0.00314	U	0.00314	0.00436
Carbon tetrachloride		0.000585	U	0.000585	0.00175
Chlorobenzene		0.000585	U	0.000585	0.00175
Chloroethane		0.00166	U	0.00166	0.00436
Chloroform		0.000585	U	0.000585	0.00175
Chloromethane		0.000585	U	0.000585	0.00175
cis-1,2-Dichloroethene		0.000585	U	0.000585	0.00175
cis-1,3-Dichloropropene		0.000585	U	0.000585	0.00175
Dibromochloromethane		0.000297	U	0.000297	0.00175
1,2-Dibromo-3-chloropropane		0.000611	U	0.000611	0.00436
1,2-Dibromoethane		0.000873	U	0.000873	0.00175
1,2-Dichlorobenzene		0.000297	U	0.000297	0.00175
1,3-Dichlorobenzene		0.000585	U	0.000585	0.00175
1,4-Dichlorobenzene		0.000585	U	0.000585	0.00175
Dichlorodifluoromethane		0.000873	U	0.000873	0.00175
1,1-Dichloroethane		0.000585	U	0.000585	0.00175
1,2-Dichloroethane		0.000585	U	0.000585	0.00175
1,1-Dichloroethene		0.000498	U	0.000498	0.00175
1,2-Dichloropropane		0.000821	U	0.000821	0.00175
1,3-Dichloropropane		0.000821	U	0.000821	0.00175
2,2-Dichloropropane		0.000585	U	0.000585	0.00175
1,1-Dichloropropene		0.000445	U	0.000445	0.00175
Ethylbenzene		0.000585	U	0.000585	0.00175
Hexachlorobutadiene		0.000995	U	0.000995	0.00436
2-Hexanone		0.0146	U	0.0146	0.0436
Iodomethane		0.00585	U	0.00585	0.0175
Isopropylbenzene		0.0155		0.000358	0.00175
Methylene bromide		0.000489	U	0.000489	0.00175
Methylene Chloride		0.000751	U	0.000751	0.00873
4-Methyl-2-pentanone (MIBK)		0.00166	U	0.00166	0.0436
Methyl tert butyl ether		0.000838	U	0.000838	0.00175
m,p-Xylene		0.0106		0.000489	0.00349
Naphthalene		0.00148	U	0.00148	0.00436
n-Butylbenzene		0.00166	J	0.000855	0.00175
N-Propylbenzene		0.0188		0.000585	0.00175
o-Chlorotoluene		0.000777	U	0.000777	0.00175
o-Xylene		0.00595		0.000585	0.00175
p-Chlorotoluene		0.000733	U	0.000733	0.00175

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END 451

Lab Sample ID: 490-117346-29 Date Sampled: 11/28/2016 1600
Client Matrix: Solid % Moisture: 9.0 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392216	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391853	Lab File ID:	120616-36.D
Dilution:	1.0			Initial Weight/Volume:	6.294 g
Analysis Date:	12/07/2016 0412			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.00130	J	0.000585	0.00175
sec-Butylbenzene		0.0100		0.000585	0.00175
Styrene		0.000960	U	0.000960	0.00175
tert-Butylbenzene		0.00445		0.000786	0.00175
1,1,1,2-Tetrachloroethane		0.000585	U	0.000585	0.00175
1,1,2,2-Tetrachloroethane		0.000873	U	0.000873	0.00175
Tetrachloroethene		0.000637	U	0.000637	0.00175
Toluene		0.00516		0.000646	0.00175
trans-1,2-Dichloroethene		0.000585	U	0.000585	0.00175
trans-1,3-Dichloropropene		0.000585	U	0.000585	0.00175
1,2,3-Trichlorobenzene		0.000412	J B	0.000332	0.00175
1,2,4-Trichlorobenzene		0.000585	U	0.000585	0.00175
1,1,1-Trichloroethane		0.000803	U	0.000803	0.00175
1,1,2-Trichloroethane		0.00122	U	0.00122	0.00436
Trichloroethene		0.000838	U	0.000838	0.00175
Trichlorofluoromethane		0.000873	U	0.000873	0.00175
1,2,3-Trichloropropane		0.000480	U	0.000480	0.00175
1,2,4-Trimethylbenzene		0.0505		0.000873	0.00175
1,3,5-Trimethylbenzene		0.0109		0.000655	0.00175
Vinyl acetate		0.00384	U	0.00384	0.0175
Vinyl chloride		0.000960	U	0.000960	0.00175
Xylenes (total)		0.0166		0.00107	0.00524

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	205	*	70 - 130
Dibromofluoromethane (Surr)	108		70 - 130
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
Toluene-d8 (Surr)	209	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END 451

Lab Sample ID: 490-117346-29 Date Sampled: 11/28/2016 1600
Client Matrix: Solid % Moisture: 9.0 Date Received: 12/03/2016 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-392216	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-391853	Lab File ID:	120616-36.D
Dilution:	1.0			Initial Weight/Volume:	6.294 g
Analysis Date:	12/07/2016 0412			Final Weight/Volume:	5.0 mL
Prep Date:	11/28/2016 1600				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
96-37-7	Cyclopentane, methyl-	3.67	0.263	J N
110-82-7	Cyclohexane	4.13	0.594	E
872-56-0	Isopropylcyclobutane	4.45	0.639	J N
108-87-2	Methylcyclohexane	4.94	1.93	E
1640-89-7	Cyclopentane, ethyl-	5.07	0.221	J N
	Unknown	5.82	0.252	J
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.97	0.287	J N
624-29-3	Cyclohexane, 1,4-dimethyl-, cis-	6.06	0.331	J N
1678-91-7	Cyclohexane, ethyl-	6.45	0.722	J N
	Unknown	8.12	0.211	J

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-460

Lab Sample ID: 490-117346-19 Date Sampled: 11/30/2016 1400
Client Matrix: Solid % Moisture: 17.4 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-16.D
Dilution:	1.0			Initial Weight/Volume:	30.38 g
Analysis Date:	12/14/2016 1812			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0382	U	0.0382	0.0801
Acenaphthylene		0.0347	U	0.0347	0.0801
Aniline		0.302	U	0.302	0.801
Anthracene		0.0347	U	0.0347	0.0801
Benzidine		0.244	U	0.244	0.398
Benzo(a)anthracene		0.0454	J	0.0359	0.0801
Benzo(a)pyrene		0.0323	U	0.0323	0.0801
Benzo(b)fluoranthene		0.0335	U	0.0335	0.0801
Benzo(g,h,i)perylene		0.0394	U	0.0394	0.0801
Benzoic acid		0.0717	U	0.0717	0.398
Benzo(k)fluoranthene		0.0323	U	0.0323	0.0801
Benzyl alcohol		0.232	U	0.232	0.398
Bis(2-chloroethoxy)methane		0.239	U	0.239	0.398
Bis(2-chloroethyl)ether		0.255	U	0.255	0.398
bis (2-chloroisopropyl) ether		0.237	U	0.237	0.398
Bis(2-ethylhexyl)phthalate		0.247	U	0.247	0.398
4-Bromophenyl phenyl ether		0.245	U	0.245	0.398
Butyl benzyl phthalate		0.257	U	0.257	0.398
Carbazole		0.247	U	0.247	0.398
4-Chloroaniline		0.271	U	0.271	0.398
4-Chloro-3-methylphenol		0.201	U	0.201	0.398
2-Chloronaphthalene		0.250	U	0.250	0.398
2-Chlorophenol		0.228	U	0.228	0.398
4-Chlorophenyl phenyl ether		0.240	U	0.240	0.398
Chrysene		0.221		0.0442	0.0801
Dibenzo(a,h)anthracene		0.0382	U	0.0382	0.0801
Dibenzofuran		0.251	U	0.251	0.398
1,2-Dichlorobenzene		0.227	U	0.227	0.398
1,3-Dichlorobenzene		0.227	U	0.227	0.398
1,4-Dichlorobenzene		0.234	U	0.234	0.398
3,3'-Dichlorobenzidine		0.244	U	0.244	0.801
2,4-Dichlorophenol		0.209	U	0.209	0.398
Diethyl phthalate		0.253	U	0.253	0.398
2,4-Dimethylphenol		0.400	U	0.400	0.801
Dimethyl phthalate		0.247	U	0.247	0.398
Di-n-butyl phthalate		0.252	U	0.252	0.398
4,6-Dinitro-o-cresol		0.274	U *	0.274	0.398
2,4-Dinitrophenol		0.300	U	0.300	0.398
2,4-Dinitrotoluene		0.249	U	0.249	0.398
2,6-Dinitrotoluene		0.267	U	0.267	0.398
Di-n-octyl phthalate		0.213	U	0.213	0.398
1,2-Diphenylhydrazine (as Azobenzene)		0.280	U	0.280	0.398
Fluoranthene		0.0406	U	0.0406	0.0801
Fluorene		0.0347	U	0.0347	0.0801
Hexachlorobenzene		0.299	U	0.299	0.398
Hexachlorobutadiene		0.200	U	0.200	0.398

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-460

Lab Sample ID: 490-117346-19 Date Sampled: 11/30/2016 1400
Client Matrix: Solid % Moisture: 17.4 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-16.D
Dilution:	1.0			Initial Weight/Volume:	30.38 g
Analysis Date:	12/14/2016 1812			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.179	U *	0.179	0.398
Hexachloroethane		0.216	U	0.216	0.398
Ideno(1,2,3-cd)pyrene		0.0347	U	0.0347	0.0801
Isophorone		0.225	U	0.225	0.398
1-Methylnaphthalene		0.161		0.0335	0.0801
2-Methylnaphthalene		0.229		0.0311	0.0801
Naphthalene		0.0347	U	0.0347	0.0801
2-Nitroaniline		0.247	U	0.247	0.398
3-Nitroaniline		0.275	U	0.275	0.801
4-Nitroaniline		0.284	U	0.284	0.801
Nitrobenzene		0.240	U	0.240	0.398
2-Nitrophenol		0.290	U	0.290	0.398
4-Nitrophenol		0.457	U *	0.457	0.801
N-Nitrosodimethylamine		0.0239	U	0.0239	0.398
N-Nitrosodi-n-propylamine		0.232	U	0.232	0.398
N-Nitrosodiphenylamine		0.0633	U	0.0633	0.398
Pentachlorophenol		0.318	U	0.318	0.801
Phenanthrene		0.0966		0.0406	0.0801
Phenol		0.243	U	0.243	0.398
Pyrene		0.0639	J	0.0406	0.0801
Pyridine		0.238	U	0.238	0.801
1,2,4-Trichlorobenzene		0.216	U	0.216	0.398
2,4,5-Trichlorophenol		0.261	U	0.261	0.398
2,4,6-Trichlorophenol		0.229	U	0.229	0.398

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	74		29 - 120
2-Fluorophenol (Surr)	53		10 - 120
Nitrobenzene-d5 (Surr)	66		27 - 120
Phenol-d5 (Surr)	62		10 - 120
Terphenyl-d14 (Surr)	81		13 - 120
2,4,6-Tribromophenol (Surr)	82		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-468

Lab Sample ID: 490-117346-20 Date Sampled: 12/01/2016 0930
Client Matrix: Solid % Moisture: 14.1 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-17.D
Dilution:	1.0			Initial Weight/Volume:	30.49 g
Analysis Date:	12/14/2016 1830			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0367	U	0.0367	0.0768
Acenaphthylene		0.0332	U	0.0332	0.0768
Aniline		0.290	U	0.290	0.768
Anthracene		0.0332	U	0.0332	0.0768
Benzidine		0.234	U	0.234	0.381
Benzo(a)anthracene		0.0344	U	0.0344	0.0768
Benzo(a)pyrene		0.0309	U	0.0309	0.0768
Benzo(b)fluoranthene		0.0321	U	0.0321	0.0768
Benzo(g,h,i)perylene		0.0378	U	0.0378	0.0768
Benzoic acid		0.0687	U	0.0687	0.381
Benzo(k)fluoranthene		0.0309	U	0.0309	0.0768
Benzyl alcohol		0.222	U	0.222	0.381
Bis(2-chloroethoxy)methane		0.229	U	0.229	0.381
Bis(2-chloroethyl)ether		0.244	U	0.244	0.381
bis (2-chloroisopropyl) ether		0.227	U	0.227	0.381
Bis(2-ethylhexyl)phthalate		0.237	U	0.237	0.381
4-Bromophenyl phenyl ether		0.235	U	0.235	0.381
Butyl benzyl phthalate		0.246	U	0.246	0.381
Carbazole		0.237	U	0.237	0.381
4-Chloroaniline		0.260	U	0.260	0.381
4-Chloro-3-methylphenol		0.192	U	0.192	0.381
2-Chloronaphthalene		0.239	U	0.239	0.381
2-Chlorophenol		0.219	U	0.219	0.381
4-Chlorophenyl phenyl ether		0.230	U	0.230	0.381
Chrysene		0.0424	U	0.0424	0.0768
Dibenzo(a,h)anthracene		0.0367	U	0.0367	0.0768
Dibenzofuran		0.241	U	0.241	0.381
1,2-Dichlorobenzene		0.218	U	0.218	0.381
1,3-Dichlorobenzene		0.218	U	0.218	0.381
1,4-Dichlorobenzene		0.225	U	0.225	0.381
3,3'-Dichlorobenzidine		0.234	U	0.234	0.768
2,4-Dichlorophenol		0.200	U	0.200	0.381
Diethyl phthalate		0.243	U	0.243	0.381
2,4-Dimethylphenol		0.384	U	0.384	0.768
Dimethyl phthalate		0.237	U	0.237	0.381
Di-n-butyl phthalate		0.242	U	0.242	0.381
4,6-Dinitro-o-cresol		0.262	U *	0.262	0.381
2,4-Dinitrophenol		0.288	U	0.288	0.381
2,4-Dinitrotoluene		0.238	U	0.238	0.381
2,6-Dinitrotoluene		0.255	U	0.255	0.381
Di-n-octyl phthalate		0.204	U	0.204	0.381
1,2-Diphenylhydrazine (as Azobenzene)		0.268	U	0.268	0.381
Fluoranthene		0.0389	U	0.0389	0.0768
Fluorene		0.0332	U	0.0332	0.0768
Hexachlorobenzene		0.286	U	0.286	0.381
Hexachlorobutadiene		0.191	U	0.191	0.381

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-468

Lab Sample ID: 490-117346-20 Date Sampled: 12/01/2016 0930
Client Matrix: Solid % Moisture: 14.1 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-17.D
Dilution:	1.0			Initial Weight/Volume:	30.49 g
Analysis Date:	12/14/2016 1830			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.172	U *	0.172	0.381
Hexachloroethane		0.207	U	0.207	0.381
Ideno(1,2,3-cd)pyrene		0.0332	U	0.0332	0.0768
Isophorone		0.215	U	0.215	0.381
1-Methylnaphthalene		0.0321	U	0.0321	0.0768
2-Methylnaphthalene		0.0298	U	0.0298	0.0768
Naphthalene		0.0332	U	0.0332	0.0768
2-Nitroaniline		0.237	U	0.237	0.381
3-Nitroaniline		0.263	U	0.263	0.768
4-Nitroaniline		0.273	U	0.273	0.768
Nitrobenzene		0.230	U	0.230	0.381
2-Nitrophenol		0.278	U	0.278	0.381
4-Nitrophenol		0.438	U *	0.438	0.768
N-Nitrosodimethylamine		0.0229	U	0.0229	0.381
N-Nitrosodi-n-propylamine		0.222	U	0.222	0.381
N-Nitrosodiphenylamine		0.0607	U	0.0607	0.381
Pentachlorophenol		0.305	U	0.305	0.768
Phenanthrene		0.0389	U	0.0389	0.0768
Phenol		0.233	U	0.233	0.381
Pyrene		0.0389	U	0.0389	0.0768
Pyridine		0.228	U	0.228	0.768
1,2,4-Trichlorobenzene		0.207	U	0.207	0.381
2,4,5-Trichlorophenol		0.250	U	0.250	0.381
2,4,6-Trichlorophenol		0.220	U	0.220	0.381

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	54		29 - 120
2-Fluorophenol (Surr)	41		10 - 120
Nitrobenzene-d5 (Surr)	45		27 - 120
Phenol-d5 (Surr)	48		10 - 120
Terphenyl-d14 (Surr)	84		13 - 120
2,4,6-Tribromophenol (Surr)	77		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-461

Lab Sample ID: 490-117346-21 Date Sampled: 11/30/2016 1400
Client Matrix: Solid % Moisture: 14.2 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-18.D
Dilution:	1.0			Initial Weight/Volume:	30.20 g
Analysis Date:	12/14/2016 1848			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0370	U	0.0370	0.0775
Acenaphthylene		0.0336	U	0.0336	0.0775
Aniline		0.293	U	0.293	0.775
Anthracene		0.0336	U	0.0336	0.0775
Benzidine		0.236	U	0.236	0.385
Benzo(a)anthracene		0.0347	U	0.0347	0.0775
Benzo(a)pyrene		0.0313	U	0.0313	0.0775
Benzo(b)fluoranthene		0.0324	U	0.0324	0.0775
Benzo(g,h,i)perylene		0.0382	U	0.0382	0.0775
Benzoic acid		0.0694	U	0.0694	0.385
Benzo(k)fluoranthene		0.0313	U	0.0313	0.0775
Benzyl alcohol		0.225	U	0.225	0.385
Bis(2-chloroethoxy)methane		0.231	U	0.231	0.385
Bis(2-chloroethyl)ether		0.247	U	0.247	0.385
bis (2-chloroisopropyl) ether		0.229	U	0.229	0.385
Bis(2-ethylhexyl)phthalate		0.240	U	0.240	0.385
4-Bromophenyl phenyl ether		0.237	U	0.237	0.385
Butyl benzyl phthalate		0.249	U	0.249	0.385
Carbazole		0.240	U	0.240	0.385
4-Chloroaniline		0.263	U	0.263	0.385
4-Chloro-3-methylphenol		0.194	U	0.194	0.385
2-Chloronaphthalene		0.242	U	0.242	0.385
2-Chlorophenol		0.221	U	0.221	0.385
4-Chlorophenyl phenyl ether		0.233	U	0.233	0.385
Chrysene		0.0428	U	0.0428	0.0775
Dibenzo(a,h)anthracene		0.0370	U	0.0370	0.0775
Dibenzofuran		0.243	U	0.243	0.385
1,2-Dichlorobenzene		0.220	U	0.220	0.385
1,3-Dichlorobenzene		0.220	U	0.220	0.385
1,4-Dichlorobenzene		0.227	U	0.227	0.385
3,3'-Dichlorobenzidine		0.236	U	0.236	0.775
2,4-Dichlorophenol		0.203	U	0.203	0.385
Diethyl phthalate		0.245	U	0.245	0.385
2,4-Dimethylphenol		0.388	U	0.388	0.775
Dimethyl phthalate		0.240	U	0.240	0.385
Di-n-butyl phthalate		0.244	U	0.244	0.385
4,6-Dinitro-o-cresol		0.265	U *	0.265	0.385
2,4-Dinitrophenol		0.291	U	0.291	0.385
2,4-Dinitrotoluene		0.241	U	0.241	0.385
2,6-Dinitrotoluene		0.258	U	0.258	0.385
Di-n-octyl phthalate		0.206	U	0.206	0.385
1,2-Diphenylhydrazine (as Azobenzene)		0.271	U	0.271	0.385
Fluoranthene		0.0394	U	0.0394	0.0775
Fluorene		0.0336	U	0.0336	0.0775
Hexachlorobenzene		0.289	U	0.289	0.385
Hexachlorobutadiene		0.193	U	0.193	0.385

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-461

Lab Sample ID: 490-117346-21 Date Sampled: 11/30/2016 1400
Client Matrix: Solid % Moisture: 14.2 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-18.D
Dilution:	1.0			Initial Weight/Volume:	30.20 g
Analysis Date:	12/14/2016 1848			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.174	U *	0.174	0.385
Hexachloroethane		0.209	U	0.209	0.385
Ideno(1,2,3-cd)pyrene		0.0336	U	0.0336	0.0775
Isophorone		0.218	U	0.218	0.385
1-Methylnaphthalene		0.0324	U	0.0324	0.0775
2-Methylnaphthalene		0.0301	U	0.0301	0.0775
Naphthalene		0.0336	U	0.0336	0.0775
2-Nitroaniline		0.240	U	0.240	0.385
3-Nitroaniline		0.266	U	0.266	0.775
4-Nitroaniline		0.275	U	0.275	0.775
Nitrobenzene		0.233	U	0.233	0.385
2-Nitrophenol		0.281	U	0.281	0.385
4-Nitrophenol		0.442	U *	0.442	0.775
N-Nitrosodimethylamine		0.0231	U	0.0231	0.385
N-Nitrosodi-n-propylamine		0.225	U	0.225	0.385
N-Nitrosodiphenylamine		0.0613	U	0.0613	0.385
Pentachlorophenol		0.308	U	0.308	0.775
Phenanthrene		0.0394	U	0.0394	0.0775
Phenol		0.235	U	0.235	0.385
Pyrene		0.0394	U	0.0394	0.0775
Pyridine		0.230	U	0.230	0.775
1,2,4-Trichlorobenzene		0.209	U	0.209	0.385
2,4,5-Trichlorophenol		0.252	U	0.252	0.385
2,4,6-Trichlorophenol		0.222	U	0.222	0.385

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	55		29 - 120
2-Fluorophenol (Surr)	38		10 - 120
Nitrobenzene-d5 (Surr)	44		27 - 120
Phenol-d5 (Surr)	47		10 - 120
Terphenyl-d14 (Surr)	70		13 - 120
2,4,6-Tribromophenol (Surr)	75		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-466

Lab Sample ID: 490-117346-22 Date Sampled: 11/30/2016 1430
Client Matrix: Solid % Moisture: 12.2 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-19.D
Dilution:	1.0			Initial Weight/Volume:	30.27 g
Analysis Date:	12/14/2016 1906			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0361	U	0.0361	0.0756
Acenaphthylene		0.0327	U	0.0327	0.0756
Aniline		0.286	U	0.286	0.756
Anthracene		0.0327	U	0.0327	0.0756
Benzidine		0.230	U	0.230	0.376
Benzo(a)anthracene		0.0339	U	0.0339	0.0756
Benzo(a)pyrene		0.0305	U	0.0305	0.0756
Benzo(b)fluoranthene		0.0316	U	0.0316	0.0756
Benzo(g,h,i)perylene		0.0373	U	0.0373	0.0756
Benzoic acid		0.0677	U	0.0677	0.376
Benzo(k)fluoranthene		0.0305	U	0.0305	0.0756
Benzyl alcohol		0.219	U	0.219	0.376
Bis(2-chloroethoxy)methane		0.226	U	0.226	0.376
Bis(2-chloroethyl)ether		0.240	U	0.240	0.376
bis (2-chloroisopropyl) ether		0.224	U	0.224	0.376
Bis(2-ethylhexyl)phthalate		0.234	U	0.234	0.376
4-Bromophenyl phenyl ether		0.231	U	0.231	0.376
Butyl benzyl phthalate		0.243	U	0.243	0.376
Carbazole		0.234	U	0.234	0.376
4-Chloroaniline		0.256	U	0.256	0.376
4-Chloro-3-methylphenol		0.190	U	0.190	0.376
2-Chloronaphthalene		0.236	U	0.236	0.376
2-Chlorophenol		0.216	U	0.216	0.376
4-Chlorophenyl phenyl ether		0.227	U	0.227	0.376
Chrysene		0.0418	U	0.0418	0.0756
Dibenzo(a,h)anthracene		0.0361	U	0.0361	0.0756
Dibenzofuran		0.237	U	0.237	0.376
1,2-Dichlorobenzene		0.215	U	0.215	0.376
1,3-Dichlorobenzene		0.215	U	0.215	0.376
1,4-Dichlorobenzene		0.221	U	0.221	0.376
3,3'-Dichlorobenzidine		0.230	U	0.230	0.756
2,4-Dichlorophenol		0.198	U	0.198	0.376
Diethyl phthalate		0.239	U	0.239	0.376
2,4-Dimethylphenol		0.378	U	0.378	0.756
Dimethyl phthalate		0.234	U	0.234	0.376
Di-n-butyl phthalate		0.238	U	0.238	0.376
4,6-Dinitro-o-cresol		0.259	U *	0.259	0.376
2,4-Dinitrophenol		0.283	U	0.283	0.376
2,4-Dinitrotoluene		0.235	U	0.235	0.376
2,6-Dinitrotoluene		0.252	U	0.252	0.376
Di-n-octyl phthalate		0.201	U	0.201	0.376
1,2-Diphenylhydrazine (as Azobenzene)		0.264	U	0.264	0.376
Fluoranthene		0.0384	U	0.0384	0.0756
Fluorene		0.0327	U	0.0327	0.0756
Hexachlorobenzene		0.282	U	0.282	0.376
Hexachlorobutadiene		0.189	U	0.189	0.376

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-466

Lab Sample ID: 490-117346-22 Date Sampled: 11/30/2016 1430
Client Matrix: Solid % Moisture: 12.2 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-19.D
Dilution:	1.0			Initial Weight/Volume:	30.27 g
Analysis Date:	12/14/2016 1906			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.169	U *	0.169	0.376
Hexachloroethane		0.204	U	0.204	0.376
Ideno(1,2,3-cd)pyrene		0.0327	U	0.0327	0.0756
Isophorone		0.212	U	0.212	0.376
1-Methylnaphthalene		0.0316	U	0.0316	0.0756
2-Methylnaphthalene		0.0294	U	0.0294	0.0756
Naphthalene		0.0327	U	0.0327	0.0756
2-Nitroaniline		0.234	U	0.234	0.376
3-Nitroaniline		0.260	U	0.260	0.756
4-Nitroaniline		0.269	U	0.269	0.756
Nitrobenzene		0.227	U	0.227	0.376
2-Nitrophenol		0.274	U	0.274	0.376
4-Nitrophenol		0.431	U *	0.431	0.756
N-Nitrosodimethylamine		0.0226	U	0.0226	0.376
N-Nitrosodi-n-propylamine		0.219	U	0.219	0.376
N-Nitrosodiphenylamine		0.0598	U	0.0598	0.376
Pentachlorophenol		0.300	U	0.300	0.756
Phenanthrene		0.0384	U	0.0384	0.0756
Phenol		0.229	U	0.229	0.376
Pyrene		0.0384	U	0.0384	0.0756
Pyridine		0.225	U	0.225	0.756
1,2,4-Trichlorobenzene		0.204	U	0.204	0.376
2,4,5-Trichlorophenol		0.246	U	0.246	0.376
2,4,6-Trichlorophenol		0.217	U	0.217	0.376

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	53		29 - 120
2-Fluorophenol (Surr)	47		10 - 120
Nitrobenzene-d5 (Surr)	48		27 - 120
Phenol-d5 (Surr)	51		10 - 120
Terphenyl-d14 (Surr)	74		13 - 120
2,4,6-Tribromophenol (Surr)	69		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-462

Lab Sample ID: 490-117346-23 Date Sampled: 11/30/2016 1415
Client Matrix: Solid % Moisture: 12.4 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-20.D
Dilution:	1.0			Initial Weight/Volume:	30.32 g
Analysis Date:	12/14/2016 1923			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0362	U	0.0362	0.0757
Acenaphthylene		0.0328	U	0.0328	0.0757
Aniline		0.286	U	0.286	0.757
Anthracene		0.0328	U	0.0328	0.0757
Benzidine		0.231	U	0.231	0.376
Benzo(a)anthracene		0.0339	U	0.0339	0.0757
Benzo(a)pyrene		0.0305	U	0.0305	0.0757
Benzo(b)fluoranthene		0.0316	U	0.0316	0.0757
Benzo(g,h,i)perylene		0.0373	U	0.0373	0.0757
Benzoic acid		0.0678	U	0.0678	0.376
Benzo(k)fluoranthene		0.0305	U	0.0305	0.0757
Benzyl alcohol		0.219	U	0.219	0.376
Bis(2-chloroethoxy)methane		0.226	U	0.226	0.376
Bis(2-chloroethyl)ether		0.241	U	0.241	0.376
bis (2-chloroisopropyl) ether		0.224	U	0.224	0.376
Bis(2-ethylhexyl)phthalate		0.234	U	0.234	0.376
4-Bromophenyl phenyl ether		0.232	U	0.232	0.376
Butyl benzyl phthalate		0.243	U	0.243	0.376
Carbazole		0.234	U	0.234	0.376
4-Chloroaniline		0.257	U	0.257	0.376
4-Chloro-3-methylphenol		0.190	U	0.190	0.376
2-Chloronaphthalene		0.236	U	0.236	0.376
2-Chlorophenol		0.216	U	0.216	0.376
4-Chlorophenyl phenyl ether		0.227	U	0.227	0.376
Chrysene		0.0418	U	0.0418	0.0757
Dibenzo(a,h)anthracene		0.0362	U	0.0362	0.0757
Dibenzofuran		0.237	U	0.237	0.376
1,2-Dichlorobenzene		0.215	U	0.215	0.376
1,3-Dichlorobenzene		0.215	U	0.215	0.376
1,4-Dichlorobenzene		0.221	U	0.221	0.376
3,3'-Dichlorobenzidine		0.231	U	0.231	0.757
2,4-Dichlorophenol		0.198	U	0.198	0.376
Diethyl phthalate		0.240	U	0.240	0.376
2,4-Dimethylphenol		0.379	U	0.379	0.757
Dimethyl phthalate		0.234	U	0.234	0.376
Di-n-butyl phthalate		0.238	U	0.238	0.376
4,6-Dinitro-o-cresol		0.259	U *	0.259	0.376
2,4-Dinitrophenol		0.284	U	0.284	0.376
2,4-Dinitrotoluene		0.235	U	0.235	0.376
2,6-Dinitrotoluene		0.252	U	0.252	0.376
Di-n-octyl phthalate		0.201	U	0.201	0.376
1,2-Diphenylhydrazine (as Azobenzene)		0.264	U	0.264	0.376
Fluoranthene		0.0384	U	0.0384	0.0757
Fluorene		0.0328	U	0.0328	0.0757
Hexachlorobenzene		0.282	U	0.282	0.376
Hexachlorobutadiene		0.189	U	0.189	0.376

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-462

Lab Sample ID: 490-117346-23 Date Sampled: 11/30/2016 1415
Client Matrix: Solid % Moisture: 12.4 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-20.D
Dilution:	1.0			Initial Weight/Volume:	30.32 g
Analysis Date:	12/14/2016 1923			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.169	U *	0.169	0.376
Hexachloroethane		0.205	U	0.205	0.376
Ideno(1,2,3-cd)pyrene		0.0328	U	0.0328	0.0757
Isophorone		0.212	U	0.212	0.376
1-Methylnaphthalene		0.0316	U	0.0316	0.0757
2-Methylnaphthalene		0.0294	U	0.0294	0.0757
Naphthalene		0.0328	U	0.0328	0.0757
2-Nitroaniline		0.234	U	0.234	0.376
3-Nitroaniline		0.260	U	0.260	0.757
4-Nitroaniline		0.269	U	0.269	0.757
Nitrobenzene		0.227	U	0.227	0.376
2-Nitrophenol		0.275	U	0.275	0.376
4-Nitrophenol		0.432	U *	0.432	0.757
N-Nitrosodimethylamine		0.0226	U	0.0226	0.376
N-Nitrosodi-n-propylamine		0.219	U	0.219	0.376
N-Nitrosodiphenylamine		0.0599	U	0.0599	0.376
Pentachlorophenol		0.301	U	0.301	0.757
Phenanthrene		0.0384	U	0.0384	0.0757
Phenol		0.229	U	0.229	0.376
Pyrene		0.0384	U	0.0384	0.0757
Pyridine		0.225	U	0.225	0.757
1,2,4-Trichlorobenzene		0.205	U	0.205	0.376
2,4,5-Trichlorophenol		0.246	U	0.246	0.376
2,4,6-Trichlorophenol		0.217	U	0.217	0.376

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	74		29 - 120
2-Fluorophenol (Surr)	63		10 - 120
Nitrobenzene-d5 (Surr)	69		27 - 120
Phenol-d5 (Surr)	70		10 - 120
Terphenyl-d14 (Surr)	82		13 - 120
2,4,6-Tribromophenol (Surr)	89		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-465

Lab Sample ID: 490-117346-25 Date Sampled: 11/30/2016 1415
Client Matrix: Solid % Moisture: 8.9 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-21.D
Dilution:	1.0			Initial Weight/Volume:	30.45 g
Analysis Date:	12/14/2016 1941			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0346	U	0.0346	0.0725
Acenaphthylene		0.0314	U	0.0314	0.0725
Aniline		0.274	U	0.274	0.725
Anthracene		0.0314	U	0.0314	0.0725
Benzidine		0.221	U	0.221	0.360
Benzo(a)anthracene		0.0325	U	0.0325	0.0725
Benzo(a)pyrene		0.0292	U	0.0292	0.0725
Benzo(b)fluoranthene		0.0303	U	0.0303	0.0725
Benzo(g,h,i)perylene		0.0357	U	0.0357	0.0725
Benzoic acid		0.0649	U	0.0649	0.360
Benzo(k)fluoranthene		0.0292	U	0.0292	0.0725
Benzyl alcohol		0.210	U	0.210	0.360
Bis(2-chloroethoxy)methane		0.216	U	0.216	0.360
Bis(2-chloroethyl)ether		0.230	U	0.230	0.360
bis (2-chloroisopropyl) ether		0.214	U	0.214	0.360
Bis(2-ethylhexyl)phthalate		0.224	U	0.224	0.360
4-Bromophenyl phenyl ether		0.222	U	0.222	0.360
Butyl benzyl phthalate		0.233	U	0.233	0.360
Carbazole		0.224	U	0.224	0.360
4-Chloroaniline		0.246	U	0.246	0.360
4-Chloro-3-methylphenol		0.182	U	0.182	0.360
2-Chloronaphthalene		0.226	U	0.226	0.360
2-Chlorophenol		0.207	U	0.207	0.360
4-Chlorophenyl phenyl ether		0.217	U	0.217	0.360
Chrysene		0.0400	U	0.0400	0.0725
Dibenzo(a,h)anthracene		0.0346	U	0.0346	0.0725
Dibenzofuran		0.227	U	0.227	0.360
1,2-Dichlorobenzene		0.206	U	0.206	0.360
1,3-Dichlorobenzene		0.206	U	0.206	0.360
1,4-Dichlorobenzene		0.212	U	0.212	0.360
3,3'-Dichlorobenzidine		0.221	U	0.221	0.725
2,4-Dichlorophenol		0.189	U	0.189	0.360
Diethyl phthalate		0.229	U	0.229	0.360
2,4-Dimethylphenol		0.362	U	0.362	0.725
Dimethyl phthalate		0.224	U	0.224	0.360
Di-n-butyl phthalate		0.228	U	0.228	0.360
4,6-Dinitro-o-cresol		0.248	U *	0.248	0.360
2,4-Dinitrophenol		0.272	U	0.272	0.360
2,4-Dinitrotoluene		0.225	U	0.225	0.360
2,6-Dinitrotoluene		0.241	U	0.241	0.360
Di-n-octyl phthalate		0.193	U	0.193	0.360
1,2-Diphenylhydrazine (as Azobenzene)		0.253	U	0.253	0.360
Fluoranthene		0.0368	U	0.0368	0.0725
Fluorene		0.0314	U	0.0314	0.0725
Hexachlorobenzene		0.270	U	0.270	0.360
Hexachlorobutadiene		0.181	U	0.181	0.360

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-465

Lab Sample ID: 490-117346-25 Date Sampled: 11/30/2016 1415
Client Matrix: Solid % Moisture: 8.9 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-394282	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-392789	Lab File ID:	120616-21.D
Dilution:	1.0			Initial Weight/Volume:	30.45 g
Analysis Date:	12/14/2016 1941			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.162	U *	0.162	0.360
Hexachloroethane		0.196	U	0.196	0.360
Ideno(1,2,3-cd)pyrene		0.0314	U	0.0314	0.0725
Isophorone		0.203	U	0.203	0.360
1-Methylnaphthalene		0.0303	U	0.0303	0.0725
2-Methylnaphthalene		0.0281	U	0.0281	0.0725
Naphthalene		0.0314	U	0.0314	0.0725
2-Nitroaniline		0.224	U	0.224	0.360
3-Nitroaniline		0.249	U	0.249	0.725
4-Nitroaniline		0.257	U	0.257	0.725
Nitrobenzene		0.217	U	0.217	0.360
2-Nitrophenol		0.263	U	0.263	0.360
4-Nitrophenol		0.413	U *	0.413	0.725
N-Nitrosodimethylamine		0.0216	U	0.0216	0.360
N-Nitrosodi-n-propylamine		0.210	U	0.210	0.360
N-Nitrosodiphenylamine		0.0573	U	0.0573	0.360
Pentachlorophenol		0.288	U	0.288	0.725
Phenanthrene		0.0368	U	0.0368	0.0725
Phenol		0.220	U	0.220	0.360
Pyrene		0.0368	U	0.0368	0.0725
Pyridine		0.215	U	0.215	0.725
1,2,4-Trichlorobenzene		0.196	U	0.196	0.360
2,4,5-Trichlorophenol		0.236	U	0.236	0.360
2,4,6-Trichlorophenol		0.208	U	0.208	0.360

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	47		29 - 120
2-Fluorophenol (Surr)	39		10 - 120
Nitrobenzene-d5 (Surr)	43		27 - 120
Phenol-d5 (Surr)	41		10 - 120
Terphenyl-d14 (Surr)	74		13 - 120
2,4,6-Tribromophenol (Surr)	73		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-463

Lab Sample ID: 490-117346-26 Date Sampled: 11/30/2016 1415
Client Matrix: Solid % Moisture: 10.5 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-393095	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-392804	Lab File ID:	120916-021.D
Dilution:	1.0			Initial Weight/Volume:	30.08 g
Analysis Date:	12/09/2016 1618			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1211			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0357	U	0.0357	0.0747
Acenaphthylene		0.0323	U	0.0323	0.0747
Aniline		0.282	U	0.282	0.747
Anthracene		0.0323	U	0.0323	0.0747
Benzidine		0.227	U	0.227	0.371
Benzo(a)anthracene		0.0334	U	0.0334	0.0747
Benzo(a)pyrene		0.0301	U	0.0301	0.0747
Benzo(b)fluoranthene		0.0312	U	0.0312	0.0747
Benzo(g,h,i)perylene		0.0368	U	0.0368	0.0747
Benzoic acid		0.0669	U	0.0669	0.371
Benzo(k)fluoranthene		0.0301	U	0.0301	0.0747
Benzyl alcohol		0.216	U	0.216	0.371
Bis(2-chloroethoxy)methane		0.223	U	0.223	0.371
Bis(2-chloroethyl)ether		0.237	U	0.237	0.371
bis (2-chloroisopropyl) ether		0.221	U	0.221	0.371
Bis(2-ethylhexyl)phthalate		0.231	U	0.231	0.371
4-Bromophenyl phenyl ether		0.228	U	0.228	0.371
Butyl benzyl phthalate		0.240	U	0.240	0.371
Carbazole		0.231	U	0.231	0.371
4-Chloroaniline		0.253	U	0.253	0.371
4-Chloro-3-methylphenol		0.187	U	0.187	0.371
2-Chloronaphthalene		0.233	U	0.233	0.371
2-Chlorophenol		0.213	U	0.213	0.371
4-Chlorophenyl phenyl ether		0.224	U	0.224	0.371
Chrysene		0.0412	U	0.0412	0.0747
Dibenzo(a,h)anthracene		0.0357	U	0.0357	0.0747
Dibenzofuran		0.234	U	0.234	0.371
1,2-Dichlorobenzene		0.212	U	0.212	0.371
1,3-Dichlorobenzene		0.212	U	0.212	0.371
1,4-Dichlorobenzene		0.218	U	0.218	0.371
3,3'-Dichlorobenzidine		0.227	U	0.227	0.747
2,4-Dichlorophenol		0.195	U	0.195	0.371
Diethyl phthalate		0.236	U	0.236	0.371
2,4-Dimethylphenol		0.373	U	0.373	0.747
Dimethyl phthalate		0.231	U	0.231	0.371
Di-n-butyl phthalate		0.235	U	0.235	0.371
4,6-Dinitro-o-cresol		0.255	U	0.255	0.371
2,4-Dinitrophenol		0.280	U	0.280	0.371
2,4-Dinitrotoluene		0.232	U	0.232	0.371
2,6-Dinitrotoluene		0.248	U	0.248	0.371
Di-n-octyl phthalate		0.198	U	0.198	0.371
1,2-Diphenylhydrazine (as Azobenzene)		0.261	U	0.261	0.371
Fluoranthene		0.0379	U	0.0379	0.0747
Fluorene		0.0323	U	0.0323	0.0747
Hexachlorobenzene		0.279	U	0.279	0.371
Hexachlorobutadiene		0.186	U	0.186	0.371

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-463

Lab Sample ID: 490-117346-26 Date Sampled: 11/30/2016 1415
Client Matrix: Solid % Moisture: 10.5 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-393095	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-392804	Lab File ID:	120916-021.D
Dilution:	1.0			Initial Weight/Volume:	30.08 g
Analysis Date:	12/09/2016 1618			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1211			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.167	U	0.167	0.371
Hexachloroethane		0.202	U	0.202	0.371
Ideno(1,2,3-cd)pyrene		0.0323	U	0.0323	0.0747
Isophorone		0.209	U	0.209	0.371
1-Methylnaphthalene		0.0312	U	0.0312	0.0747
2-Methylnaphthalene		0.0290	U	0.0290	0.0747
Naphthalene		0.0323	U	0.0323	0.0747
2-Nitroaniline		0.231	U	0.231	0.371
3-Nitroaniline		0.256	U	0.256	0.747
4-Nitroaniline		0.265	U	0.265	0.747
Nitrobenzene		0.224	U	0.224	0.371
2-Nitrophenol		0.271	U	0.271	0.371
4-Nitrophenol		0.426	U	0.426	0.747
N-Nitrosodimethylamine		0.0223	U	0.0223	0.371
N-Nitrosodi-n-propylamine		0.216	U	0.216	0.371
N-Nitrosodiphenylamine		0.0591	U	0.0591	0.371
Pentachlorophenol		0.296	U	0.296	0.747
Phenanthrene		0.0379	U	0.0379	0.0747
Phenol		0.226	U	0.226	0.371
Pyrene		0.0379	U	0.0379	0.0747
Pyridine		0.222	U	0.222	0.747
1,2,4-Trichlorobenzene		0.202	U	0.202	0.371
2,4,5-Trichlorophenol		0.243	U	0.243	0.371
2,4,6-Trichlorophenol		0.214	U	0.214	0.371

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	59		29 - 120
2-Fluorophenol (Surr)	65		10 - 120
Nitrobenzene-d5 (Surr)	50		27 - 120
Phenol-d5 (Surr)	69		10 - 120
Terphenyl-d14 (Surr)	68		13 - 120
2,4,6-Tribromophenol (Surr)	68		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-464

Lab Sample ID: 490-117346-27 Date Sampled: 11/30/2016 1415
Client Matrix: Solid % Moisture: 11.0 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-393095	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-392804	Lab File ID:	120916-022.D
Dilution:	1.0			Initial Weight/Volume:	30.98 g
Analysis Date:	12/09/2016 1636			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1211			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0348	U	0.0348	0.0729
Acenaphthylene		0.0316	U	0.0316	0.0729
Aniline		0.275	U	0.275	0.729
Anthracene		0.0316	U	0.0316	0.0729
Benzidine		0.222	U	0.222	0.362
Benzo(a)anthracene		0.0327	U	0.0327	0.0729
Benzo(a)pyrene		0.0294	U	0.0294	0.0729
Benzo(b)fluoranthene		0.0305	U	0.0305	0.0729
Benzo(g,h,i)perylene		0.0359	U	0.0359	0.0729
Benzoic acid		0.0653	U	0.0653	0.362
Benzo(k)fluoranthene		0.0294	U	0.0294	0.0729
Benzyl alcohol		0.211	U	0.211	0.362
Bis(2-chloroethoxy)methane		0.218	U	0.218	0.362
Bis(2-chloroethyl)ether		0.232	U	0.232	0.362
bis (2-chloroisopropyl) ether		0.216	U	0.216	0.362
Bis(2-ethylhexyl)phthalate		0.225	U	0.225	0.362
4-Bromophenyl phenyl ether		0.223	U	0.223	0.362
Butyl benzyl phthalate		0.234	U	0.234	0.362
Carbazole		0.225	U	0.225	0.362
4-Chloroaniline		0.247	U	0.247	0.362
4-Chloro-3-methylphenol		0.183	U	0.183	0.362
2-Chloronaphthalene		0.227	U	0.227	0.362
2-Chlorophenol		0.208	U	0.208	0.362
4-Chlorophenyl phenyl ether		0.219	U	0.219	0.362
Chrysene		0.0403	U	0.0403	0.0729
Dibenzo(a,h)anthracene		0.0348	U	0.0348	0.0729
Dibenzofuran		0.229	U	0.229	0.362
1,2-Dichlorobenzene		0.207	U	0.207	0.362
1,3-Dichlorobenzene		0.207	U	0.207	0.362
1,4-Dichlorobenzene		0.213	U	0.213	0.362
3,3'-Dichlorobenzidine		0.222	U	0.222	0.729
2,4-Dichlorophenol		0.190	U	0.190	0.362
Diethyl phthalate		0.231	U	0.231	0.362
2,4-Dimethylphenol		0.365	U	0.365	0.729
Dimethyl phthalate		0.225	U	0.225	0.362
Di-n-butyl phthalate		0.230	U	0.230	0.362
4,6-Dinitro-o-cresol		0.249	U	0.249	0.362
2,4-Dinitrophenol		0.273	U	0.273	0.362
2,4-Dinitrotoluene		0.226	U	0.226	0.362
2,6-Dinitrotoluene		0.243	U	0.243	0.362
Di-n-octyl phthalate		0.194	U	0.194	0.362
1,2-Diphenylhydrazine (as Azobenzene)		0.255	U	0.255	0.362
Fluoranthene		0.0370	U	0.0370	0.0729
Fluorene		0.0316	U	0.0316	0.0729
Hexachlorobenzene		0.272	U	0.272	0.362
Hexachlorobutadiene		0.182	U	0.182	0.362

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-464

Lab Sample ID: 490-117346-27 Date Sampled: 11/30/2016 1415
Client Matrix: Solid % Moisture: 11.0 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-393095	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-392804	Lab File ID:	120916-022.D
Dilution:	1.0			Initial Weight/Volume:	30.98 g
Analysis Date:	12/09/2016 1636			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1211			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.163	U	0.163	0.362
Hexachloroethane		0.197	U	0.197	0.362
Ideno(1,2,3-cd)pyrene		0.0316	U	0.0316	0.0729
Isophorone		0.205	U	0.205	0.362
1-Methylnaphthalene		0.0305	U	0.0305	0.0729
2-Methylnaphthalene		0.0283	U	0.0283	0.0729
Naphthalene		0.0316	U	0.0316	0.0729
2-Nitroaniline		0.225	U	0.225	0.362
3-Nitroaniline		0.250	U	0.250	0.729
4-Nitroaniline		0.259	U	0.259	0.729
Nitrobenzene		0.219	U	0.219	0.362
2-Nitrophenol		0.264	U	0.264	0.362
4-Nitrophenol		0.416	U	0.416	0.729
N-Nitrosodimethylamine		0.0218	U	0.0218	0.362
N-Nitrosodi-n-propylamine		0.211	U	0.211	0.362
N-Nitrosodiphenylamine		0.0577	U	0.0577	0.362
Pentachlorophenol		0.290	U	0.290	0.729
Phenanthrene		0.0370	U	0.0370	0.0729
Phenol		0.221	U	0.221	0.362
Pyrene		0.0370	U	0.0370	0.0729
Pyridine		0.217	U	0.217	0.729
1,2,4-Trichlorobenzene		0.197	U	0.197	0.362
2,4,5-Trichlorophenol		0.237	U	0.237	0.362
2,4,6-Trichlorophenol		0.209	U	0.209	0.362

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	53		29 - 120
2-Fluorophenol (Surr)	55		10 - 120
Nitrobenzene-d5 (Surr)	52		27 - 120
Phenol-d5 (Surr)	61		10 - 120
Terphenyl-d14 (Surr)	77		13 - 120
2,4,6-Tribromophenol (Surr)	74		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-467

Lab Sample ID: 490-117346-28 Date Sampled: 11/30/2016 1430
Client Matrix: Solid % Moisture: 10.3 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-393095	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-392804	Lab File ID:	120916-023.D
Dilution:	1.0			Initial Weight/Volume:	30.86 g
Analysis Date:	12/09/2016 1655			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1211			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0347	U	0.0347	0.0726
Acenaphthylene		0.0314	U	0.0314	0.0726
Aniline		0.274	U	0.274	0.726
Anthracene		0.0314	U	0.0314	0.0726
Benzidine		0.221	U	0.221	0.361
Benzo(a)anthracene		0.0325	U	0.0325	0.0726
Benzo(a)pyrene		0.0293	U	0.0293	0.0726
Benzo(b)fluoranthene		0.0303	U	0.0303	0.0726
Benzo(g,h,i)perylene		0.0358	U	0.0358	0.0726
Benzoic acid		0.0650	U	0.0650	0.361
Benzo(k)fluoranthene		0.0293	U	0.0293	0.0726
Benzyl alcohol		0.210	U	0.210	0.361
Bis(2-chloroethoxy)methane		0.217	U	0.217	0.361
Bis(2-chloroethyl)ether		0.231	U	0.231	0.361
bis (2-chloroisopropyl) ether		0.215	U	0.215	0.361
Bis(2-ethylhexyl)phthalate		0.224	U	0.224	0.361
4-Bromophenyl phenyl ether		0.222	U	0.222	0.361
Butyl benzyl phthalate		0.233	U	0.233	0.361
Carbazole		0.224	U	0.224	0.361
4-Chloroaniline		0.246	U	0.246	0.361
4-Chloro-3-methylphenol		0.182	U	0.182	0.361
2-Chloronaphthalene		0.226	U	0.226	0.361
2-Chlorophenol		0.207	U	0.207	0.361
4-Chlorophenyl phenyl ether		0.218	U	0.218	0.361
Chrysene		0.0401	U	0.0401	0.0726
Dibenzo(a,h)anthracene		0.0347	U	0.0347	0.0726
Dibenzofuran		0.228	U	0.228	0.361
1,2-Dichlorobenzene		0.206	U	0.206	0.361
1,3-Dichlorobenzene		0.206	U	0.206	0.361
1,4-Dichlorobenzene		0.212	U	0.212	0.361
3,3'-Dichlorobenzidine		0.221	U	0.221	0.726
2,4-Dichlorophenol		0.190	U	0.190	0.361
Diethyl phthalate		0.230	U	0.230	0.361
2,4-Dimethylphenol		0.363	U	0.363	0.726
Dimethyl phthalate		0.224	U	0.224	0.361
Di-n-butyl phthalate		0.229	U	0.229	0.361
4,6-Dinitro-o-cresol		0.248	U	0.248	0.361
2,4-Dinitrophenol		0.272	U	0.272	0.361
2,4-Dinitrotoluene		0.225	U	0.225	0.361
2,6-Dinitrotoluene		0.242	U	0.242	0.361
Di-n-octyl phthalate		0.193	U	0.193	0.361
1,2-Diphenylhydrazine (as Azobenzene)		0.254	U	0.254	0.361
Fluoranthene		0.0368	U	0.0368	0.0726
Fluorene		0.0314	U	0.0314	0.0726
Hexachlorobenzene		0.271	U	0.271	0.361
Hexachlorobutadiene		0.181	U	0.181	0.361

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-467

Lab Sample ID: 490-117346-28 Date Sampled: 11/30/2016 1430
Client Matrix: Solid % Moisture: 10.3 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-393095	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-392804	Lab File ID:	120916-023.D
Dilution:	1.0			Initial Weight/Volume:	30.86 g
Analysis Date:	12/09/2016 1655			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1211			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.163	U	0.163	0.361
Hexachloroethane		0.196	U	0.196	0.361
Ideno(1,2,3-cd)pyrene		0.0314	U	0.0314	0.0726
Isophorone		0.204	U	0.204	0.361
1-Methylnaphthalene		0.0303	U	0.0303	0.0726
2-Methylnaphthalene		0.0282	U	0.0282	0.0726
Naphthalene		0.0314	U	0.0314	0.0726
2-Nitroaniline		0.224	U	0.224	0.361
3-Nitroaniline		0.249	U	0.249	0.726
4-Nitroaniline		0.258	U	0.258	0.726
Nitrobenzene		0.218	U	0.218	0.361
2-Nitrophenol		0.263	U	0.263	0.361
4-Nitrophenol		0.414	U	0.414	0.726
N-Nitrosodimethylamine		0.0217	U	0.0217	0.361
N-Nitrosodi-n-propylamine		0.210	U	0.210	0.361
N-Nitrosodiphenylamine		0.0574	U	0.0574	0.361
Pentachlorophenol		0.288	U	0.288	0.726
Phenanthrene		0.0368	U	0.0368	0.0726
Phenol		0.220	U	0.220	0.361
Pyrene		0.0368	U	0.0368	0.0726
Pyridine		0.216	U	0.216	0.726
1,2,4-Trichlorobenzene		0.196	U	0.196	0.361
2,4,5-Trichlorophenol		0.236	U	0.236	0.361
2,4,6-Trichlorophenol		0.208	U	0.208	0.361

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	53		29 - 120
2-Fluorophenol (Surr)	52		10 - 120
Nitrobenzene-d5 (Surr)	53		27 - 120
Phenol-d5 (Surr)	56		10 - 120
Terphenyl-d14 (Surr)	74		13 - 120
2,4,6-Tribromophenol (Surr)	70		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END 451

Lab Sample ID: 490-117346-29 Date Sampled: 11/28/2016 1600
Client Matrix: Solid % Moisture: 9.0 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-393095	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-392804	Lab File ID:	120916-024.D
Dilution:	1.0			Initial Weight/Volume:	30.20 g
Analysis Date:	12/09/2016 1714			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1211			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0349	U	0.0349	0.0731
Acenaphthylene		0.0317	U	0.0317	0.0731
Aniline		0.276	U	0.276	0.731
Anthracene		0.0317	U	0.0317	0.0731
Benzidine		0.223	U	0.223	0.363
Benzo(a)anthracene		0.0327	U	0.0327	0.0731
Benzo(a)pyrene		0.0295	U	0.0295	0.0731
Benzo(b)fluoranthene		0.0306	U	0.0306	0.0731
Benzo(g,h,i)perylene		0.0360	U	0.0360	0.0731
Benzoic acid		0.0655	U	0.0655	0.363
Benzo(k)fluoranthene		0.0295	U	0.0295	0.0731
Benzyl alcohol		0.212	U	0.212	0.363
Bis(2-chloroethoxy)methane		0.218	U	0.218	0.363
Bis(2-chloroethyl)ether		0.232	U	0.232	0.363
bis (2-chloroisopropyl) ether		0.216	U	0.216	0.363
Bis(2-ethylhexyl)phthalate		0.226	U	0.226	0.363
4-Bromophenyl phenyl ether		0.224	U	0.224	0.363
Butyl benzyl phthalate		0.235	U	0.235	0.363
Carbazole		0.226	U	0.226	0.363
4-Chloroaniline		0.248	U	0.248	0.363
4-Chloro-3-methylphenol		0.183	U	0.183	0.363
2-Chloronaphthalene		0.228	U	0.228	0.363
2-Chlorophenol		0.208	U	0.208	0.363
4-Chlorophenyl phenyl ether		0.219	U	0.219	0.363
Chrysene		0.0404	U	0.0404	0.0731
Dibenzo(a,h)anthracene		0.0349	U	0.0349	0.0731
Dibenzofuran		0.229	U	0.229	0.363
1,2-Dichlorobenzene		0.207	U	0.207	0.363
1,3-Dichlorobenzene		0.207	U	0.207	0.363
1,4-Dichlorobenzene		0.214	U	0.214	0.363
3,3'-Dichlorobenzidine		0.223	U	0.223	0.731
2,4-Dichlorophenol		0.191	U	0.191	0.363
Diethyl phthalate		0.231	U	0.231	0.363
2,4-Dimethylphenol		0.366	U	0.366	0.731
Dimethyl phthalate		0.226	U	0.226	0.363
Di-n-butyl phthalate		0.230	U	0.230	0.363
4,6-Dinitro-o-cresol		0.250	U	0.250	0.363
2,4-Dinitrophenol		0.274	U	0.274	0.363
2,4-Dinitrotoluene		0.227	U	0.227	0.363
2,6-Dinitrotoluene		0.243	U	0.243	0.363
Di-n-octyl phthalate		0.194	U	0.194	0.363
1,2-Diphenylhydrazine (as Azobenzene)		0.255	U	0.255	0.363
Fluoranthene		0.0371	U	0.0371	0.0731
Fluorene		0.0317	U	0.0317	0.0731
Hexachlorobenzene		0.273	U	0.273	0.363
Hexachlorobutadiene		0.182	U	0.182	0.363

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END 451

Lab Sample ID: 490-117346-29 Date Sampled: 11/28/2016 1600
Client Matrix: Solid % Moisture: 9.0 Date Received: 12/03/2016 0925

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-393095	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-392804	Lab File ID:	120916-024.D
Dilution:	1.0			Initial Weight/Volume:	30.20 g
Analysis Date:	12/09/2016 1714			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1211			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.164	U	0.164	0.363
Hexachloroethane		0.198	U	0.198	0.363
Ideno(1,2,3-cd)pyrene		0.0317	U	0.0317	0.0731
Isophorone		0.205	U	0.205	0.363
1-Methylnaphthalene		0.0306	U	0.0306	0.0731
2-Methylnaphthalene		0.0284	U	0.0284	0.0731
Naphthalene		0.0317	U	0.0317	0.0731
2-Nitroaniline		0.226	U	0.226	0.363
3-Nitroaniline		0.251	U	0.251	0.731
4-Nitroaniline		0.260	U	0.260	0.731
Nitrobenzene		0.219	U	0.219	0.363
2-Nitrophenol		0.265	U	0.265	0.363
4-Nitrophenol		0.417	U	0.417	0.731
N-Nitrosodimethylamine		0.0218	U	0.0218	0.363
N-Nitrosodi-n-propylamine		0.212	U	0.212	0.363
N-Nitrosodiphenylamine		0.0578	U	0.0578	0.363
Pentachlorophenol		0.290	U	0.290	0.731
Phenanthrene		0.0371	U	0.0371	0.0731
Phenol		0.222	U	0.222	0.363
Pyrene		0.0371	U	0.0371	0.0731
Pyridine		0.217	U	0.217	0.731
1,2,4-Trichlorobenzene		0.198	U	0.198	0.363
2,4,5-Trichlorophenol		0.238	U	0.238	0.363
2,4,6-Trichlorophenol		0.210	U	0.210	0.363

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	50		29 - 120
2-Fluorophenol (Surr)	46		10 - 120
Nitrobenzene-d5 (Surr)	47		27 - 120
Phenol-d5 (Surr)	51		10 - 120
Terphenyl-d14 (Surr)	64		13 - 120
2,4,6-Tribromophenol (Surr)	65		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-460

Lab Sample ID: 490-117346-19 Date Sampled: 11/30/2016 1400
Client Matrix: Solid % Moisture: 17.4 Date Received: 12/03/2016 0925

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-393176	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392479	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.496 g
Analysis Date:	12/08/2016 1431			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1327				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4770		12.2	24.4
Antimony		1.22	U	1.22	12.2
Arsenic		12.6		1.46	2.44
Barium		106		1.22	2.44
Beryllium		0.244	U	0.244	1.22
Cadmium		0.317	J	0.122	1.22
Calcium		1360		122	244
Chromium		7.49		1.10	1.22
Cobalt		7.17		1.22	2.44
Copper		88.2		1.34	2.44
Iron		17400		24.4	48.8
Lead		23.5		0.610	1.22
Magnesium		1230		122	244
Manganese		204		1.22	3.66
Nickel		16.4		0.732	2.44
Potassium		314		122	244
Selenium		2.10	J	1.34	2.44
Silver		0.488	U	0.488	1.22
Sodium		159	U	159	244
Thallium		0.732	U	0.732	2.44
Vanadium		13.0		2.44	12.2
Zinc		57.3		6.10	12.2

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.595 g
Analysis Date:	12/15/2016 1109			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0564	J	0.0366	0.122

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-468

Lab Sample ID: 490-117346-20 Date Sampled: 12/01/2016 0930
Client Matrix: Solid % Moisture: 14.1 Date Received: 12/03/2016 0925

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-394970	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392556	Lab File ID:	TALS_121516-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.507 g
Analysis Date:	12/15/2016 2355			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1549				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6970		11.5	23.0
Antimony		1.15	U	1.15	11.5
Arsenic		8.34		1.38	2.30
Barium		290		1.15	2.30
Beryllium		0.390	J	0.230	1.15
Calcium		6030		115	230
Chromium		8.47		1.03	1.15
Cobalt		11.3		1.15	2.30
Copper		11.7		1.26	2.30
Iron		18800		23.0	45.9
Lead		25.5		0.574	1.15
Magnesium		2510		115	230
Manganese		2890		1.15	3.44
Nickel		17.8		0.689	2.30
Potassium		607		115	230
Selenium		3.26		1.26	2.30
Silver		0.459	U	0.459	1.15
Sodium		149	U	149	230
Thallium		4.04		0.689	2.30
Vanadium		11.5		2.30	11.5
Zinc		45.1		5.74	11.5

Analysis Method:	6010C	Analysis Batch:	490-395466	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-392556	Lab File ID:	TALS_121816-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.507 g
Analysis Date:	12/19/2016 0118			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1549				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.735	J	0.115	1.15

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.622 g
Analysis Date:	12/15/2016 1112			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0337	U	0.0337	0.112

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-461

Lab Sample ID: 490-117346-21 Date Sampled: 11/30/2016 1400
Client Matrix: Solid % Moisture: 14.2 Date Received: 12/03/2016 0925

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-394970	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392556	Lab File ID:	TALS_121516-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.507 g
Analysis Date:	12/16/2016 0020			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1549				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		8740		11.5	23.0
Antimony		1.15	U	1.15	11.5
Arsenic		4.07		1.38	2.30
Barium		50.2		1.15	2.30
Beryllium		0.345	J	0.230	1.15
Calcium		550		115	230
Chromium		8.41		1.03	1.15
Cobalt		4.92		1.15	2.30
Copper		38.5		1.26	2.30
Iron		10600		23.0	46.0
Lead		13.0		0.575	1.15
Magnesium		2310		115	230
Manganese		117		1.15	3.45
Nickel		14.6		0.689	2.30
Potassium		385		115	230
Selenium		1.26	U	1.26	2.30
Silver		0.460	U	0.460	1.15
Sodium		149	U	149	230
Thallium		0.689	U	0.689	2.30
Vanadium		13.8		2.30	11.5
Zinc		68.7		5.75	11.5

Analysis Method:	6010C	Analysis Batch:	490-395466	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-392556	Lab File ID:	TALS_121816-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.507 g
Analysis Date:	12/19/2016 0201			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1549				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.460	J	0.115	1.15

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.623 g
Analysis Date:	12/15/2016 1114			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0337	U	0.0337	0.112

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-466

Lab Sample ID: 490-117346-22 Date Sampled: 11/30/2016 1430
Client Matrix: Solid % Moisture: 12.2 Date Received: 12/03/2016 0925

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-394970	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392556	Lab File ID:	TALS_121516-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.515 g
Analysis Date:	12/16/2016 0026			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1549				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7680		11.1	22.1
Antimony		1.11	U	1.11	11.1
Arsenic		6.39		1.33	2.21
Barium		42.2		1.11	2.21
Beryllium		0.420	J	0.221	1.11
Calcium		768		111	221
Chromium		7.30		0.995	1.11
Cobalt		6.68		1.11	2.21
Copper		14.5		1.22	2.21
Iron		12800		22.1	44.2
Lead		15.7		0.553	1.11
Magnesium		1920		111	221
Manganese		814		1.11	3.32
Nickel		14.8		0.664	2.21
Potassium		437		111	221
Selenium		1.22	U	1.22	2.21
Silver		0.442	U	0.442	1.11
Sodium		144	U	144	221
Thallium		0.664	U	0.664	2.21
Vanadium		12.3		2.21	11.1
Zinc		50.7		5.53	11.1

Analysis Method:	6010C	Analysis Batch:	490-395466	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-392556	Lab File ID:	TALS_121816-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.515 g
Analysis Date:	12/19/2016 0206			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1549				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.619	J	0.111	1.11

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394259	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.625 g
Analysis Date:	12/15/2016 0858			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1201				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0328	U	0.0328	0.109

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-462

Lab Sample ID: 490-117346-23 Date Sampled: 11/30/2016 1415
Client Matrix: Solid % Moisture: 12.4 Date Received: 12/03/2016 0925

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-394970	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392556	Lab File ID:	TALS_121516-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.514 g
Analysis Date:	12/16/2016 0031			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1549				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6340		11.1	22.2
Antimony		1.11	U	1.11	11.1
Arsenic		4.78		1.33	2.22
Barium		57.4		1.11	2.22
Beryllium		0.222	U	0.222	1.11
Calcium		1290		111	222
Chromium		8.87		1.00	1.11
Cobalt		2.98		1.11	2.22
Copper		35.3		1.22	2.22
Iron		22200		22.2	44.4
Lead		18.0		0.555	1.11
Magnesium		1910		111	222
Manganese		262		1.11	3.33
Nickel		11.5		0.667	2.22
Potassium		336		111	222
Selenium		2.27		1.22	2.22
Silver		0.444	U	0.444	1.11
Sodium		144	U	144	222
Thallium		0.667	U	0.667	2.22
Vanadium		18.0		2.22	11.1
Zinc		41.8		5.55	11.1

Analysis Method:	6010C	Analysis Batch:	490-395466	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-392556	Lab File ID:	TALS_121816-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.514 g
Analysis Date:	12/19/2016 0211			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1549				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.844	J	0.111	1.11

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394259	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.619 g
Analysis Date:	12/15/2016 0910			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1201				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0332	U	0.0332	0.111

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-465

Lab Sample ID: 490-117346-25 Date Sampled: 11/30/2016 1415
Client Matrix: Solid % Moisture: 8.9 Date Received: 12/03/2016 0925

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-394970	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392556	Lab File ID:	TALS_121516-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.519 g
Analysis Date:	12/16/2016 0047			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1549				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6000		10.6	21.2
Antimony		1.06	U	1.06	10.6
Arsenic		5.88		1.27	2.12
Barium		31.8		1.06	2.12
Beryllium		0.254	J	0.212	1.06
Calcium		406		106	212
Chromium		7.00		0.952	1.06
Cobalt		3.30		1.06	2.12
Copper		12.6		1.16	2.12
Iron		12900		21.2	42.3
Lead		12.0		0.529	1.06
Magnesium		2170		106	212
Manganese		126		1.06	3.17
Nickel		12.8		0.635	2.12
Potassium		408		106	212
Selenium		1.16	U	1.16	2.12
Silver		0.423	U	0.423	1.06
Sodium		138	U	138	212
Thallium		0.635	U	0.635	2.12
Vanadium		12.4		2.12	10.6
Zinc		39.5		5.29	10.6

Analysis Method:	6010C	Analysis Batch:	490-395466	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-392556	Lab File ID:	TALS_121816-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.519 g
Analysis Date:	12/19/2016 0216			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1549				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.487	J	0.106	1.06

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394259	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.625 g
Analysis Date:	12/15/2016 0913			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1201				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0316	U	0.0316	0.105

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-463

Lab Sample ID: 490-117346-26 Date Sampled: 11/30/2016 1415
Client Matrix: Solid % Moisture: 10.5 Date Received: 12/03/2016 0925

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-394970	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392556	Lab File ID:	TALS_121516-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.512 g
Analysis Date:	12/16/2016 0052			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1549				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7350		10.9	21.8
Antimony		1.09	U	1.09	10.9
Arsenic		5.08		1.31	2.18
Barium		47.2		1.09	2.18
Beryllium		0.262	J	0.218	1.09
Calcium		855		109	218
Chromium		8.12		0.982	1.09
Cobalt		4.39		1.09	2.18
Copper		24.1		1.20	2.18
Iron		12800		21.8	43.6
Lead		15.0		0.546	1.09
Magnesium		1940		109	218
Manganese		121		1.09	3.27
Nickel		12.8		0.655	2.18
Potassium		406		109	218
Selenium		1.20	U	1.20	2.18
Silver		0.436	U	0.436	1.09
Sodium		142	U	142	218
Thallium		0.655	U	0.655	2.18
Vanadium		11.5		2.18	10.9
Zinc		55.4		5.46	10.9

Analysis Method:	6010C	Analysis Batch:	490-395466	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-392556	Lab File ID:	TALS_121816-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.512 g
Analysis Date:	12/19/2016 0221			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1549				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.655	J	0.109	1.09

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394259	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.624 g
Analysis Date:	12/15/2016 0915			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1201				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0322	U	0.0322	0.107

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-464

Lab Sample ID: 490-117346-27 Date Sampled: 11/30/2016 1415
Client Matrix: Solid % Moisture: 11.0 Date Received: 12/03/2016 0925

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-394970	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392556	Lab File ID:	TALS_121516-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.503 g
Analysis Date:	12/16/2016 0057			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1549				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9770		11.2	22.3
Antimony		1.12	U	1.12	11.2
Arsenic		9.03		1.34	2.23
Barium		49.4		1.12	2.23
Beryllium		0.402	J	0.223	1.12
Calcium		768		112	223
Chromium		9.25		1.01	1.12
Cobalt		7.13		1.12	2.23
Copper		21.9		1.23	2.23
Iron		14000		22.3	44.7
Lead		28.1		0.559	1.12
Magnesium		2260		112	223
Manganese		205		1.12	3.35
Nickel		18.7		0.670	2.23
Potassium		529		112	223
Selenium		2.12	J	1.23	2.23
Silver		0.447	U	0.447	1.12
Sodium		145	U	145	223
Thallium		0.670	U	0.670	2.23
Vanadium		14.5		2.23	11.2
Zinc		64.4		5.59	11.2

Analysis Method:	6010C	Analysis Batch:	490-395466	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-392556	Lab File ID:	TALS_121816-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.503 g
Analysis Date:	12/19/2016 0237			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1549				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.782	J	0.112	1.12

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394259	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.598 g
Analysis Date:	12/15/2016 0918			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1201				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.434		0.0338	0.113

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END-467

Lab Sample ID: 490-117346-28 Date Sampled: 11/30/2016 1430
Client Matrix: Solid % Moisture: 10.3 Date Received: 12/03/2016 0925

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-394970	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392556	Lab File ID:	TALS_121516-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.520 g
Analysis Date:	12/16/2016 0102			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1549				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		8300		10.7	21.4
Antimony		1.07	U	1.07	10.7
Arsenic		3.94		1.29	2.14
Barium		30.1		1.07	2.14
Beryllium		0.364	J	0.214	1.07
Calcium		612		107	214
Chromium		7.54		0.965	1.07
Cobalt		6.69		1.07	2.14
Copper		11.2		1.18	2.14
Iron		13300		21.4	42.9
Lead		13.6		0.536	1.07
Magnesium		2280		107	214
Manganese		267		1.07	3.22
Nickel		15.3		0.643	2.14
Potassium		371		107	214
Selenium		1.18	U	1.18	2.14
Silver		0.429	U	0.429	1.07
Sodium		139	U	139	214
Thallium		0.643	U	0.643	2.14
Vanadium		13.6		2.14	10.7
Zinc		48.0		5.36	10.7

Analysis Method:	6010C	Analysis Batch:	490-395466	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-392556	Lab File ID:	TALS_121816-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.520 g
Analysis Date:	12/19/2016 0242			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1549				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.536	J	0.107	1.07

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394259	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.625 g
Analysis Date:	12/15/2016 0920			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1201				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0321	U	0.0321	0.107

Client: Roux Associates, Inc. Job Number: 490-117346-3

Client Sample ID: END 451

Lab Sample ID: 490-117346-29 Date Sampled: 11/28/2016 1600
Client Matrix: Solid % Moisture: 9.0 Date Received: 12/03/2016 0925

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-394970	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392556	Lab File ID:	TALS_121516-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.503 g
Analysis Date:	12/16/2016 0107			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1549				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7610		10.9	21.8
Antimony		1.09	U	1.09	10.9
Arsenic		30.4		1.31	2.18
Barium		63.5		1.09	2.18
Beryllium		0.415	J	0.218	1.09
Calcium		1090		109	218
Chromium		9.87		0.983	1.09
Cobalt		5.42		1.09	2.18
Copper		92.4		1.20	2.18
Iron		24300		21.8	43.7
Lead		18.8		0.546	1.09
Magnesium		1650		109	218
Manganese		622		1.09	3.28
Nickel		13.3		0.655	2.18
Potassium		316		109	218
Selenium		2.64		1.20	2.18
Silver		0.437	U	0.437	1.09
Sodium		142	U	142	218
Thallium		0.655	U	0.655	2.18
Vanadium		12.6		2.18	10.9
Zinc		40.4		5.46	10.9

Analysis Method:	6010C	Analysis Batch:	490-395466	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-392556	Lab File ID:	TALS_121816-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.503 g
Analysis Date:	12/19/2016 0247			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1549				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.983	J	0.109	1.09

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394259	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.600 g
Analysis Date:	12/15/2016 0923			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1201				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0330	U	0.0330	0.110

General Chemistry

Client Sample ID: **END-460**

Lab Sample ID: 490-117346-19 Date Sampled: 11/30/2016 1400
Client Matrix: Solid Date Received: 12/03/2016 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	82.6		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392389 Analysis Date: 12/07/2016 1036 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-468**

Lab Sample ID: 490-117346-20 Date Sampled: 12/01/2016 0930
Client Matrix: Solid Date Received: 12/03/2016 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	85.9		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392389 Analysis Date: 12/07/2016 1036 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-461**

Lab Sample ID: 490-117346-21 Date Sampled: 11/30/2016 1400
Client Matrix: Solid Date Received: 12/03/2016 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	85.8		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392389 Analysis Date: 12/07/2016 1036 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-466**

Lab Sample ID: 490-117346-22 Date Sampled: 11/30/2016 1430
Client Matrix: Solid Date Received: 12/03/2016 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	87.8		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392389 Analysis Date: 12/07/2016 1036 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-462**

Lab Sample ID: 490-117346-23 Date Sampled: 11/30/2016 1415
Client Matrix: Solid Date Received: 12/03/2016 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	87.6		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392389 Analysis Date: 12/07/2016 1036 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-465**

Lab Sample ID: 490-117346-25 Date Sampled: 11/30/2016 1415
Client Matrix: Solid Date Received: 12/03/2016 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	91.1		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392389 Analysis Date: 12/07/2016 1036 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-463**

Lab Sample ID: 490-117346-26 Date Sampled: 11/30/2016 1415
Client Matrix: Solid Date Received: 12/03/2016 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	89.5		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392389 Analysis Date: 12/07/2016 1036 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-464**

Lab Sample ID: 490-117346-27 Date Sampled: 11/30/2016 1415
Client Matrix: Solid Date Received: 12/03/2016 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	89.0		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392389 Analysis Date: 12/07/2016 1036 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-467**

Lab Sample ID: 490-117346-28 Date Sampled: 11/30/2016 1430
Client Matrix: Solid Date Received: 12/03/2016 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	89.7		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392389 Analysis Date: 12/07/2016 1036 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 451**

Lab Sample ID: 490-117346-29 Date Sampled: 11/28/2016 1600
Client Matrix: Solid Date Received: 12/03/2016 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	91.0		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392389 Analysis Date: 12/07/2016 1036 DryWt Corrected: N

DATA REPORTING QUALIFIERS

Client: Roux Associates, Inc. Job Number: 490-117346-3

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Analyzed for but not detected.
	E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.
	*	Duplicate RPD exceeds control limits
	J	Indicates an estimated value.
	*	ISTD response or retention time outside acceptable limits
	*	LCS or LCSD is outside acceptance limits.
	*	MS or MSD is outside acceptance limits.
	*	RPD of the LCS and LCSD exceeds the control limits
	*	Surrogate is outside acceptance limits.
	B	The analyte was found in an associated blank, as well as in the sample.
	N	This flag indicates the presumptive evidence of a compound.
GC/MS Semi VOA		
	U	Analyzed for but not detected.
	J	Indicates an estimated value.
	*	LCS or LCSD is outside acceptance limits.
	*	MS or MSD is outside acceptance limits.
Metals		
	U	Indicates analyzed for but not detected.
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
	J	Sample result is greater than the MDL but below the CRDL
	N	Spiked sample recovery is not within control limits.

QUALITY CONTROL RESULTS

Client: Roux Associates, Inc. Job Number: 490-117346-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 490-391700					
490-117346-A-1-A MS	Matrix Spike	T	Solid	5035A	
490-117346-A-1-B MSD	Matrix Spike Duplicate	T	Solid	5035A	
490-117346-29MS	Matrix Spike	T	Solid	5035A	
490-117346-29MSD	Matrix Spike Duplicate	T	Solid	5035A	
Prep Batch: 490-391833					
490-117346-19	END-460	T	Solid	5035A	
490-117346-19MS	Matrix Spike	T	Solid	5035A	
490-117346-19MSD	Matrix Spike Duplicate	T	Solid	5035A	
490-117346-23	END-462	T	Solid	5035A	
Prep Batch: 490-391835					
490-117346-19	END-460	T	Solid	5035A	
490-117346-20	END-468	T	Solid	5035A	
490-117346-21	END-461	T	Solid	5035A	
490-117346-22	END-466	T	Solid	5035A	
490-117346-23	END-462	T	Solid	5035A	
490-117346-24	TRIP BLANK	T	Solid	5035A	
490-117346-25	END-465	T	Solid	5035A	
490-117346-26	END-463	T	Solid	5035A	
490-117346-27	END-464	T	Solid	5035A	
490-117346-28	END-467	T	Solid	5035A	
Prep Batch: 490-391853					
490-117346-29	END 451	T	Solid	5035A	
Analysis Batch:490-391971					
LCS 490-391971/3	Lab Control Sample	T	Solid	8260C	
LCSD 490-391971/4	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-391971/7	Method Blank	T	Solid	8260C	
490-117346-A-1-A MS	Matrix Spike	T	Solid	8260C	490-391700
490-117346-A-1-B MSD	Matrix Spike Duplicate	T	Solid	8260C	490-391700
490-117346-24	TRIP BLANK	T	Solid	8260C	490-391835
Analysis Batch:490-392216					
LCS 490-392216/4	Lab Control Sample	T	Solid	8260C	
LCSD 490-392216/5	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-392216/7	Method Blank	T	Solid	8260C	
490-117346-19	END-460	T	Solid	8260C	490-391835
490-117346-22	END-466	T	Solid	8260C	490-391835
490-117346-29MS	Matrix Spike	T	Solid	8260C	490-391700
490-117346-29MSD	Matrix Spike Duplicate	T	Solid	8260C	490-391700
490-117346-29	END 451	T	Solid	8260C	490-391853

Client: Roux Associates, Inc. Job Number: 490-117346-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:490-392335					
LCS 490-392335/3	Lab Control Sample	T	Solid	8260C	
LCSD 490-392335/4	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-392335/7	Method Blank	T	Solid	8260C	
490-117346-23	END-462	T	Solid	8260C	490-391833
Analysis Batch:490-393067					
LCS 490-393067/4	Lab Control Sample	T	Solid	8260C	
LCSD 490-393067/5	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-393067/7	Method Blank	T	Solid	8260C	
490-117346-A-4-C MS	Matrix Spike	T	Solid	8260C	490-393278
490-117346-A-4-D MSD	Matrix Spike Duplicate	T	Solid	8260C	490-393278
490-117346-20	END-468	T	Solid	8260C	490-391835
490-117346-21	END-461	T	Solid	8260C	490-391835
490-117346-23	END-462	T	Solid	8260C	490-391835
490-117346-25	END-465	T	Solid	8260C	490-391835
490-117346-26	END-463	T	Solid	8260C	490-391835
490-117346-27	END-464	T	Solid	8260C	490-391835
490-117346-28	END-467	T	Solid	8260C	490-391835
Analysis Batch:490-393092					
LCS 490-393092/3	Lab Control Sample	T	Solid	8260C	
LCSD 490-393092/4	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-393092/7	Method Blank	T	Solid	8260C	
490-117346-19	END-460	T	Solid	8260C	490-391833
490-117346-19MS	Matrix Spike	T	Solid	8260C	490-391833
490-117346-19MSD	Matrix Spike Duplicate	T	Solid	8260C	490-391833
Prep Batch: 490-393278					
490-117346-A-4-C MS	Matrix Spike	T	Solid	5035A	
490-117346-A-4-D MSD	Matrix Spike Duplicate	T	Solid	5035A	
Prep Batch: 490-393601					
490-117755-B-14-D MS	Matrix Spike	T	Solid	5035A	
490-117755-B-14-E MSD	Matrix Spike Duplicate	T	Solid	5035A	
Analysis Batch:490-393855					
LCS 490-393855/4	Lab Control Sample	T	Solid	8260C	
MB 490-393855/8	Method Blank	T	Solid	8260C	
490-117346-22	END-466	T	Solid	8260C	490-391835
490-117755-B-14-D MS	Matrix Spike	T	Solid	8260C	490-393601
490-117755-B-14-E MSD	Matrix Spike Duplicate	T	Solid	8260C	490-393601

Report Basis
T = Total

Client: Roux Associates, Inc. Job Number: 490-117346-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 490-392789					
LCS 490-392789/2-A	Lab Control Sample	T	Solid	3550C	
MB 490-392789/1-A	Method Blank	T	Solid	3550C	
490-117346-19	END-460	T	Solid	3550C	
490-117346-20	END-468	T	Solid	3550C	
490-117346-21	END-461	T	Solid	3550C	
490-117346-22	END-466	T	Solid	3550C	
490-117346-23	END-462	T	Solid	3550C	
490-117346-25	END-465	T	Solid	3550C	
490-117346-25MS	Matrix Spike	T	Solid	3550C	
490-117346-25MSD	Matrix Spike Duplicate	T	Solid	3550C	
Prep Batch: 490-392804					
LCS 490-392804/2-A	Lab Control Sample	T	Solid	3550C	
MB 490-392804/1-A	Method Blank	T	Solid	3550C	
490-117346-26	END-463	T	Solid	3550C	
490-117346-27	END-464	T	Solid	3550C	
490-117346-28	END-467	T	Solid	3550C	
490-117346-29	END 451	T	Solid	3550C	
490-117346-29MS	Matrix Spike	T	Solid	3550C	
490-117346-29MSD	Matrix Spike Duplicate	T	Solid	3550C	
Analysis Batch:490-393095					
LCS 490-392804/2-A	Lab Control Sample	T	Solid	8270D	490-392804
MB 490-392804/1-A	Method Blank	T	Solid	8270D	490-392804
490-117346-26	END-463	T	Solid	8270D	490-392804
490-117346-27	END-464	T	Solid	8270D	490-392804
490-117346-28	END-467	T	Solid	8270D	490-392804
490-117346-29	END 451	T	Solid	8270D	490-392804
490-117346-29MS	Matrix Spike	T	Solid	8270D	490-392804
490-117346-29MSD	Matrix Spike Duplicate	T	Solid	8270D	490-392804
Analysis Batch:490-393758					
LCS 490-392789/2-A	Lab Control Sample	T	Solid	8270D	490-392789
MB 490-392789/1-A	Method Blank	T	Solid	8270D	490-392789
Analysis Batch:490-394282					
490-117346-19	END-460	T	Solid	8270D	490-392789
490-117346-20	END-468	T	Solid	8270D	490-392789
490-117346-21	END-461	T	Solid	8270D	490-392789
490-117346-22	END-466	T	Solid	8270D	490-392789
490-117346-23	END-462	T	Solid	8270D	490-392789
490-117346-25	END-465	T	Solid	8270D	490-392789
490-117346-25MS	Matrix Spike	T	Solid	8270D	490-392789
490-117346-25MSD	Matrix Spike Duplicate	T	Solid	8270D	490-392789

Client: Roux Associates, Inc. Job Number: 490-117346-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch

Report Basis
T = Total

Client: Roux Associates, Inc. Job Number: 490-117346-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 490-392479					
LCS 490-392479/2-A	Lab Control Sample	T	Solid	3051A	
MB 490-392479/1-A	Method Blank	T	Solid	3051A	
490-117346-19	END-460	T	Solid	3051A	
490-117454-D-1-B MS	Matrix Spike	T	Solid	3051A	
490-117454-D-1-C MSD	Matrix Spike Duplicate	T	Solid	3051A	
Prep Batch: 490-392556					
LCS 490-392556/2-A	Lab Control Sample	T	Solid	3051A	
MB 490-392556/1-A	Method Blank	T	Solid	3051A	
490-117346-20	END-468	T	Solid	3051A	
490-117346-20MS	Matrix Spike	T	Solid	3051A	
490-117346-20MSD	Matrix Spike Duplicate	T	Solid	3051A	
490-117346-21	END-461	T	Solid	3051A	
490-117346-22	END-466	T	Solid	3051A	
490-117346-23	END-462	T	Solid	3051A	
490-117346-25	END-465	T	Solid	3051A	
490-117346-26	END-463	T	Solid	3051A	
490-117346-27	END-464	T	Solid	3051A	
490-117346-28	END-467	T	Solid	3051A	
490-117346-29	END 451	T	Solid	3051A	
Analysis Batch:490-393176					
LCS 490-392479/2-A	Lab Control Sample	T	Solid	6010C	490-392479
MB 490-392479/1-A	Method Blank	T	Solid	6010C	490-392479
490-117346-19	END-460	T	Solid	6010C	490-392479
490-117454-D-1-B MS	Matrix Spike	T	Solid	6010C	490-392479
490-117454-D-1-C MSD	Matrix Spike Duplicate	T	Solid	6010C	490-392479
Prep Batch: 490-394259					
LCS 490-394259/2-A	Lab Control Sample	T	Solid	7471B	
MB 490-394259/1-A	Method Blank	T	Solid	7471B	
490-117346-22	END-466	T	Solid	7471B	
490-117346-22MS	Matrix Spike	T	Solid	7471B	
490-117346-22MSD	Matrix Spike Duplicate	T	Solid	7471B	
490-117346-23	END-462	T	Solid	7471B	
490-117346-25	END-465	T	Solid	7471B	
490-117346-26	END-463	T	Solid	7471B	
490-117346-27	END-464	T	Solid	7471B	
490-117346-28	END-467	T	Solid	7471B	
490-117346-29	END 451	T	Solid	7471B	

Client: Roux Associates, Inc. Job Number: 490-117346-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 490-394265					
LCS 490-394265/2-A	Lab Control Sample	T	Solid	7471B	
MB 490-394265/1-A	Method Blank	T	Solid	7471B	
490-117346-A-1-G MS	Matrix Spike	T	Solid	7471B	
490-117346-A-1-H MSD	Matrix Spike Duplicate	T	Solid	7471B	
490-117346-19	END-460	T	Solid	7471B	
490-117346-20	END-468	T	Solid	7471B	
490-117346-21	END-461	T	Solid	7471B	
Analysis Batch:490-394618					
LCS 490-394259/2-A	Lab Control Sample	T	Solid	7471B	490-394259
MB 490-394259/1-A	Method Blank	T	Solid	7471B	490-394259
LCS 490-394265/2-A	Lab Control Sample	T	Solid	7471B	490-394265
MB 490-394265/1-A	Method Blank	T	Solid	7471B	490-394265
490-117346-A-1-G MS	Matrix Spike	T	Solid	7471B	490-394265
490-117346-A-1-H MSD	Matrix Spike Duplicate	T	Solid	7471B	490-394265
490-117346-19	END-460	T	Solid	7471B	490-394265
490-117346-20	END-468	T	Solid	7471B	490-394265
490-117346-21	END-461	T	Solid	7471B	490-394265
490-117346-22	END-466	T	Solid	7471B	490-394259
490-117346-22MS	Matrix Spike	T	Solid	7471B	490-394259
490-117346-22MSD	Matrix Spike Duplicate	T	Solid	7471B	490-394259
490-117346-23	END-462	T	Solid	7471B	490-394259
490-117346-25	END-465	T	Solid	7471B	490-394259
490-117346-26	END-463	T	Solid	7471B	490-394259
490-117346-27	END-464	T	Solid	7471B	490-394259
490-117346-28	END-467	T	Solid	7471B	490-394259
490-117346-29	END 451	T	Solid	7471B	490-394259
Analysis Batch:490-394970					
LCS 490-392556/2-A	Lab Control Sample	T	Solid	6010C	490-392556
MB 490-392556/1-A	Method Blank	T	Solid	6010C	490-392556
490-117346-20	END-468	T	Solid	6010C	490-392556
490-117346-20MS	Matrix Spike	T	Solid	6010C	490-392556
490-117346-20MSD	Matrix Spike Duplicate	T	Solid	6010C	490-392556
490-117346-21	END-461	T	Solid	6010C	490-392556
490-117346-22	END-466	T	Solid	6010C	490-392556
490-117346-23	END-462	T	Solid	6010C	490-392556
490-117346-25	END-465	T	Solid	6010C	490-392556
490-117346-26	END-463	T	Solid	6010C	490-392556
490-117346-27	END-464	T	Solid	6010C	490-392556
490-117346-28	END-467	T	Solid	6010C	490-392556
490-117346-29	END 451	T	Solid	6010C	490-392556

Client: Roux Associates, Inc. Job Number: 490-117346-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:490-395466					
LCS 490-392556/2-A	Lab Control Sample	T	Solid	6010C	490-392556
MB 490-392556/1-A	Method Blank	T	Solid	6010C	490-392556
490-117346-20	END-468	T	Solid	6010C	490-392556
490-117346-20MS	Matrix Spike	T	Solid	6010C	490-392556
490-117346-20MSD	Matrix Spike Duplicate	T	Solid	6010C	490-392556
490-117346-21	END-461	T	Solid	6010C	490-392556
490-117346-22	END-466	T	Solid	6010C	490-392556
490-117346-23	END-462	T	Solid	6010C	490-392556
490-117346-25	END-465	T	Solid	6010C	490-392556
490-117346-26	END-463	T	Solid	6010C	490-392556
490-117346-27	END-464	T	Solid	6010C	490-392556
490-117346-28	END-467	T	Solid	6010C	490-392556
490-117346-29	END 451	T	Solid	6010C	490-392556

Report Basis
T = Total

General Chemistry

Analysis Batch:490-392389					
490-117346-A-7 DU	Duplicate	T	Solid	Moisture	
490-117346-19	END-460	T	Solid	Moisture	
490-117346-20	END-468	T	Solid	Moisture	
490-117346-20DU	Duplicate	T	Solid	Moisture	
490-117346-21	END-461	T	Solid	Moisture	
490-117346-22	END-466	T	Solid	Moisture	
490-117346-23	END-462	T	Solid	Moisture	
490-117346-25	END-465	T	Solid	Moisture	
490-117346-26	END-463	T	Solid	Moisture	
490-117346-27	END-464	T	Solid	Moisture	
490-117346-28	END-467	T	Solid	Moisture	
490-117346-29	END 451	T	Solid	Moisture	
490-117346-29MS	Matrix Spike	T	Solid	Moisture	
490-117346-29MSD	Matrix Spike Duplicate	T	Solid	Moisture	

Report Basis
T = Total

Client: Roux Associates, Inc. Job Number: 490-117346-3

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
490-117346-19	END-460	2172*	110	652*	3458*
490-117346-20	END-468	95	97	98	98
490-117346-21	END-461	139*	100	102	212*
490-117346-22	END-466	100	98	101	96
490-117346-22	END-466	88	102	100	95
490-117346-23	END-462	117*	110	114	113
490-117346-24	TRIP BLANK	97	105	99	98
490-117346-25	END-465	100	100	102	94
490-117346-26	END-463	98	100	102	94
490-117346-27	END-464	97	99	102	95
490-117346-28	END-467	93	99	100	95
490-117346-29	END 451	205*	108	108	209*
MB 490-391971/7		94	101	99	98
MB 490-392216/7		103	95	93	98
MB 490-393067/7		90	98	98	94
MB 490-393855/8		91	97	93	96
LCS 490-391971/3		96	97	94	96
LCS 490-392216/4		99	95	93	100
LCS 490-393067/4		84	96	99	96
LCS 490-393855/4		88	100	95	95
LCSD 490-391971/4		95	95	94	97
LCSD 490-392216/5		98	99	97	98
LCSD 490-393067/5		84	93	90	98
490-117346-29 MS	END 451 MS	136*	98	99	127
490-117346-A-1-A MS		881*	102	100	1622*
490-117346-A-4-C MS		569*	106	111	723*
490-117755-B-14-D MS		137*	100	90	130
490-117346-29 MSD	END 451 MSD	145*	101	103	136*

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	70-130
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
490-117346-A-1-B MSD		901*	106	98	1825*
490-117346-A-4-D MSD		195*	101	102	962*
490-117755-B-14-E MSD		119*	101	95	116

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	70-130
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
490-117346-19	END-460	88	105	99	105
490-117346-23	END-462	89	105	107	100
MB 490-392335/7		89	106	107	99
MB 490-393092/7		87	106	104	98
LCS 490-392335/3		86	107	103	99
LCS 490-393092/3		86	109	104	78
LCSD 490-392335/4		86	106	104	100
LCSD 490-393092/4		101	112	104	90
490-117346-19 MS	END-460 MS	88	106	100	127
490-117346-19 MSD	END-460 MSD	89	106	101	90

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	70-130
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Surrogate Recovery Report

8270D Semivolatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	FBP %Rec	2FP %Rec	NBZ %Rec	PHL %Rec	TPHL %Rec	TBP %Rec
490-117346-19	END-460	74	53	66	62	81	82
490-117346-20	END-468	54	41	45	48	84	77
490-117346-21	END-461	55	38	44	47	70	75
490-117346-22	END-466	53	47	48	51	74	69
490-117346-23	END-462	74	63	69	70	82	89
490-117346-25	END-465	47	39	43	41	74	73
490-117346-26	END-463	59	65	50	69	68	68
490-117346-27	END-464	53	55	52	61	77	74
490-117346-28	END-467	53	52	53	56	74	70
490-117346-29	END 451	50	46	47	51	64	65
MB 490-392789/1-A		81	60	82	66	97	53
MB 490-392804/1-A		74	74	78	74	84	76
LCS 490-392789/2-A		58	46	51	50	88	84
LCS 490-392804/2-A		74	65	70	71	84	82
490-117346-25 MS	END-465 MS	44	31	33	37	61	63
490-117346-29 MS	END 451 MS	67	56	58	63	78	85
490-117346-25 MSD	END-465 MSD	51	39	42	44	77	76
490-117346-29 MSD	END 451 MSD	69	62	65	67	81	80

Surrogate	Acceptance Limits
FBP = 2-Fluorobiphenyl (Surr)	29-120
2FP = 2-Fluorophenol (Surr)	10-120
NBZ = Nitrobenzene-d5 (Surr)	27-120
PHL = Phenol-d5 (Surr)	10-120
TPHL = Terphenyl-d14 (Surr)	13-120
TBP = 2,4,6-Tribromophenol (Surr)	10-120

Client: Roux Associates, Inc. Job Number: 490-117346-3

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-391700

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-A-1-A MS	Analysis Batch:	490-391971	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-26.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.21 g
Analysis Date:	12/06/2016 2305			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0946				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-A-1-B MSD	Analysis Batch:	490-391971	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-27.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.48 g
Analysis Date:	12/06/2016 2336			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0946				5 mL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	236	256	10 - 150	3	50	*	*
Benzene	-132	-98	21 - 150	13	50	*	*
Bromobenzene	242	268	10 - 150	5	50	*	*
Bromochloromethane	106	100	10 - 150	10	50		
Bromodichloromethane	196	452	10 - 150	75	50	*	*
Bromoform	91	96	10 - 150	0	50		
Bromomethane	53	59	10 - 150	6	50		
2-Butanone (MEK)	102	105	10 - 150	1	50		
Carbon disulfide	97	99	10 - 150	3	50		
Carbon tetrachloride	107	101	10 - 150	11	50		
Chlorobenzene	107	108	10 - 150	4	50		
Chloroethane	105	79	10 - 150	33	50		
Chloroform	121	127	10 - 150	0	50		
Chloromethane	81	89	10 - 150	4	50		
cis-1,2-Dichloroethene	108	111	10 - 150	3	50		
cis-1,3-Dichloropropene	142	158	10 - 150	5	50		*
Dibromochloromethane	241	291	10 - 150	14	50	*	*
1,2-Dibromo-3-chloropropane	122	116	10 - 150	9	50		*
1,2-Dibromoethane	130	133	10 - 150	2	50		
1,2-Dichlorobenzene	75	66	10 - 150	18	50		*
1,3-Dichlorobenzene	82	75	10 - 150	15	50		*
1,4-Dichlorobenzene	78	71	10 - 150	15	50		*
Dichlorodifluoromethane	119	119	10 - 150	5	50		
1,1-Dichloroethane	105	111	10 - 150	0	50		
1,2-Dichloroethane	134	142	24 - 138	0	50		*
1,1-Dichloroethene	111	113	10 - 150	3	50		
1,2-Dichloropropane	344	327	10 - 150	10	50	*	*
1,3-Dichloropropane	131	142	10 - 150	3	50		
2,2-Dichloropropane	123	125	10 - 150	3	50		
1,1-Dichloropropene	105	104	10 - 150	7	50		
Ethylbenzene	46	51	10 - 150	2	50		
Hexachlorobutadiene	14	14	10 - 150	6	50		*

Client: Roux Associates, Inc. Job Number: 490-117346-3

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-391700

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-A-1-A MS	Analysis Batch:	490-391971	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-26.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.21 g
Analysis Date:	12/06/2016 2305			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0946				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-A-1-B MSD	Analysis Batch:	490-391971	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-27.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.48 g
Analysis Date:	12/06/2016 2336			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0946				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2-Hexanone	190	114	10 - 150	54	50	*	*
Isopropylbenzene	-469	-375	10 - 150	11	50	E *	E *
Methylene bromide	95	93	10 - 150	8	50		
Methylene Chloride	224	247	24 - 150	5	50	*	*
4-Methyl-2-pentanone (MIBK)	148	171	10 - 150	9	50		*
Methyl tert butyl ether	118	120	10 - 150	3	50		
m,p-Xylene	-2129	-1550	10 - 150	11	50	E *	E *
Naphthalene	2	54	10 - 150	8	50	E *	E *
n-Butylbenzene	-522	-506	10 - 150	3	50	E *	E *
N-Propylbenzene	-458	-306	10 - 150	8	50	E *	E *
o-Chlorotoluene	1279	1418	10 - 150	5	50	E *	E *
o-Xylene	8	12	10 - 150	2	50	*	
p-Chlorotoluene	1999	2280	10 - 150	8	50	E *	E *
p-Isopropyltoluene	-2256	-2393	10 - 150	12	50	*	*
sec-Butylbenzene	-287	-246	10 - 150	7	50	*	*
Styrene	89	89	10 - 150	6	50		
tert-Butylbenzene	109	105	10 - 150	9	50		*
1,1,1,2-Tetrachloroethane	107	109	10 - 150	3	50		
1,1,2,2-Tetrachloroethane	2259	2269	10 - 150	5	50	E *	E *
Tetrachloroethene	76	72	10 - 150	11	50		
Toluene	134	148	17 - 150	5	50		
trans-1,2-Dichloroethene	111	115	10 - 150	1	50		
trans-1,3-Dichloropropene	133	146	10 - 150	4	50		
1,2,3-Trichlorobenzene	39	36	10 - 150	12	50		*
1,2,4-Trichlorobenzene	26	20	10 - 150	30	50		*
1,1,1-Trichloroethane	108	109	10 - 150	4	50		
1,1,2-Trichloroethane	11997	14090	10 - 150	11	50	E *	E *
Trichloroethene	100	99	10 - 150	6	50		
Trichlorofluoromethane	116	113	10 - 150	8	50		
1,2,3-Trichloropropane	1324	798	10 - 150	54	50	E *	*
1,2,4-Trimethylbenzene	-2469	-1790	10 - 150	7	50	E *	E *
1,3,5-Trimethylbenzene	-1812	-1314	10 - 150	7	50	E *	E *

Client: Roux Associates, Inc. Job Number: 490-117346-3

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-391700

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-A-1-A MS	Analysis Batch:	490-391971	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-26.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.21 g
Analysis Date:	12/06/2016 2305			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0946				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-A-1-B MSD	Analysis Batch:	490-391971	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-27.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.48 g
Analysis Date:	12/06/2016 2336			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0946				5 mL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Vinyl acetate	122	125	10 - 150	2	50		
Vinyl chloride	102	106	10 - 150	2	50		
Xylenes (total)	-1058	-765	10 - 150	11	50	*	*

Surrogate	MS % Rec		MSD % Rec		Acceptance Limits
4-Bromofluorobenzene (Surr)	881	*	901	*	70 - 130
Dibromofluoromethane (Surr)	102		106		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		98		70 - 130
Toluene-d8 (Surr)	1622	*	1825	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-391700

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-29	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-49.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.17 g
Analysis Date:	12/07/2016 1053			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1509				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-29	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-50.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.08 g
Analysis Date:	12/07/2016 1124			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1509				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	125	145	10 - 150	14	50		
Benzene	102	94	21 - 150	5	50		
Bromobenzene	137	116	10 - 150	15	50		
Bromochloromethane	104	104	10 - 150	2	50		
Bromodichloromethane	103	102	10 - 150	0	50		
Bromoform	98	87	10 - 150	10	50		
Bromomethane	79	80	10 - 150	4	50		
2-Butanone (MEK)	107	110	10 - 150	4	50		
Carbon disulfide	102	95	10 - 150	5	50		
Carbon tetrachloride	110	108	10 - 150	1	50		
Chlorobenzene	103	95	10 - 150	6	50		
Chloroethane	97	93	10 - 150	3	50		
Chloroform	102	100	10 - 150	1	50		
Chloromethane	79	75	10 - 150	5	50		
cis-1,2-Dichloroethene	105	103	10 - 150	0	50		
cis-1,3-Dichloropropene	110	107	10 - 150	1	50		
Dibromochloromethane	108	103	10 - 150	3	50		
1,2-Dibromo-3-chloropropane	128	95	10 - 150	28	50		
1,2-Dibromoethane	104	98	10 - 150	5	50		
1,2-Dichlorobenzene	101	80	10 - 150	22	50		
1,3-Dichlorobenzene	110	96	10 - 150	12	50		
1,4-Dichlorobenzene	107	91	10 - 150	15	50		
Dichlorodifluoromethane	124	115	10 - 150	6	50		
1,1-Dichloroethane	102	98	10 - 150	2	50		
1,2-Dichloroethane	100	100	24 - 138	2	50		
1,1-Dichloroethene	111	104	10 - 150	5	50		
1,2-Dichloropropane	100	109	10 - 150	10	50		
1,3-Dichloropropane	105	99	10 - 150	3	50		
2,2-Dichloropropane	118	114	10 - 150	2	50		
1,1-Dichloropropene	104	101	10 - 150	1	50		
Ethylbenzene	109	106	10 - 150	1	50		
Hexachlorobutadiene	27	40	10 - 150	43	50		

Client: Roux Associates, Inc. Job Number: 490-117346-3

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-391700

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-29	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-49.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.17 g
Analysis Date:	12/07/2016 1053			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1509				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-29	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-50.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.08 g
Analysis Date:	12/07/2016 1124			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1509				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2-Hexanone	109	100	10 - 150	7	50		
Isopropylbenzene	81	98	10 - 150	16	50		
Methylene bromide	98	96	10 - 150	1	50		
Methylene Chloride	526	637	24 - 150	21	50	*	*
4-Methyl-2-pentanone (MIBK)	109	103	10 - 150	4	50		
Methyl tert butyl ether	116	117	10 - 150	3	50		
m,p-Xylene	99	102	10 - 150	4	50		
Naphthalene	53	32	10 - 150	48	50		
n-Butylbenzene	70	91	10 - 150	27	50		
N-Propylbenzene	119	146	10 - 150	18	50		
o-Chlorotoluene	134	134	10 - 150	2	50		
o-Xylene	96	97	10 - 150	2	50		
p-Chlorotoluene	128	119	10 - 150	6	50		
p-Isopropyltoluene	88	114	10 - 150	27	50		
sec-Butylbenzene	84	129	10 - 150	37	50		
Styrene	93	77	10 - 150	17	50		
tert-Butylbenzene	96	126	10 - 150	27	50		
1,1,1,2-Tetrachloroethane	110	105	10 - 150	3	50		
1,1,2,2-Tetrachloroethane	165	165	10 - 150	2	50	*	*
Tetrachloroethene	109	110	10 - 150	2	50		
Toluene	111	109	17 - 150	0	50		
trans-1,2-Dichloroethene	102	97	10 - 150	3	50		
trans-1,3-Dichloropropene	109	103	10 - 150	4	50		
1,2,3-Trichlorobenzene	39	35	10 - 150	9	50		
1,2,4-Trichlorobenzene	49	45	10 - 150	7	50		
1,1,1-Trichloroethane	109	103	10 - 150	4	50		
1,1,2-Trichloroethane	382	655	10 - 150	54	50	*	*
Trichloroethene	106	100	10 - 150	5	50		
Trichlorofluoromethane	114	110	10 - 150	2	50		
1,2,3-Trichloropropane	163	142	10 - 150	12	50	*	
1,2,4-Trimethylbenzene	121	162	10 - 150	19	50		*
1,3,5-Trimethylbenzene	114	141	10 - 150	20	50		

Client: Roux Associates, Inc. Job Number: 490-117346-3

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-391700

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-29	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-49.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.17 g
Analysis Date:	12/07/2016 1053			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1509				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-29	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-391700	Lab File ID:	120616-50.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.08 g
Analysis Date:	12/07/2016 1124			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1509				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Vinyl acetate	174	177	10 - 150	3	50	*	*
Vinyl chloride	103	98	10 - 150	4	50		
Xylenes (total)	98	99	10 - 150	3	50		

Surrogate	MS % Rec		MSD % Rec		Acceptance Limits
4-Bromofluorobenzene (Surr)	136	*	145	*	70 - 130
Dibromofluoromethane (Surr)	98		101		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		103		70 - 130
Toluene-d8 (Surr)	127		136	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-391833

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-19	Analysis Batch:	490-393092	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	490-391833	Lab File ID:	12091615.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	3.515 g
Analysis Date:	12/09/2016 1658			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1400				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-19	Analysis Batch:	490-393092	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	490-391833	Lab File ID:	12091616.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	3.515 g
Analysis Date:	12/09/2016 1725			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1400				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	109	112	10 - 150	3	50		
Benzene	92	94	21 - 150	3	50		
Bromobenzene	79	81	10 - 150	3	50		
Bromochloromethane	98	100	10 - 150	2	50		
Bromodichloromethane	88	90	10 - 150	3	50		
Bromoform	89	87	10 - 150	2	50		
Bromomethane	85	96	10 - 150	12	50		
2-Butanone (MEK)	103	109	10 - 150	5	50		
Carbon disulfide	90	93	10 - 150	3	50		
Carbon tetrachloride	100	105	10 - 150	5	50		
Chlorobenzene	93	97	10 - 150	4	50		
Chloroethane	112	104	10 - 150	7	50		
Chloroform	96	99	10 - 150	3	50		
Chloromethane	87	95	10 - 150	8	50		
cis-1,2-Dichloroethene	90	94	10 - 150	4	50		
cis-1,3-Dichloropropene	96	72	10 - 150	29	50		
Dibromochloromethane	97	93	10 - 150	4	50		
1,2-Dibromo-3-chloropropane	96	106	10 - 150	10	50		
1,2-Dibromoethane	87	87	10 - 150	0	50		
1,2-Dichlorobenzene	93	95	10 - 150	2	50		
1,3-Dichlorobenzene	92	94	10 - 150	2	50		
1,4-Dichlorobenzene	92	96	10 - 150	4	50		
Dichlorodifluoromethane	121	124	10 - 150	3	50		
1,1-Dichloroethane	88	91	10 - 150	4	50		
1,2-Dichloroethane	92	96	24 - 138	4	50		
1,1-Dichloroethene	97	99	10 - 150	2	50		
1,2-Dichloropropane	95	96	10 - 150	0	50		
1,3-Dichloropropane	97	79	10 - 150	21	50		
2,2-Dichloropropane	94	99	10 - 150	5	50		
1,1-Dichloropropene	93	95	10 - 150	2	50		
Ethylbenzene	92	97	10 - 150	5	50		
Hexachlorobutadiene	68	75	10 - 150	10	50		

Client: Roux Associates, Inc. Job Number: 490-117346-3

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-391833

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-19	Analysis Batch:	490-393092	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	490-391833	Lab File ID:	12091615.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	3.515 g
Analysis Date:	12/09/2016 1658			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1400				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-19	Analysis Batch:	490-393092	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	490-391833	Lab File ID:	12091616.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	3.515 g
Analysis Date:	12/09/2016 1725			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1400				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2-Hexanone	107	95	10 - 150	12	50		
Isopropylbenzene	92	80	10 - 150	13	50		
Methylene bromide	91	94	10 - 150	4	50		
Methylene Chloride	89	94	24 - 150	5	50		
4-Methyl-2-pentanone (MIBK)	114	77	10 - 150	38	50		
Methyl tert butyl ether	89	94	10 - 150	5	50		
m,p-Xylene	87	92	10 - 150	3	50		
Naphthalene	94	101	10 - 150	7	50		
n-Butylbenzene	86	89	10 - 150	3	50		
N-Propylbenzene	83	85	10 - 150	2	50		
o-Chlorotoluene	89	91	10 - 150	2	50		
o-Xylene	88	96	10 - 150	9	50		
p-Chlorotoluene	93	96	10 - 150	3	50		
p-Isopropyltoluene	87	91	10 - 150	4	50		
sec-Butylbenzene	84	88	10 - 150	5	50		
Styrene	91	97	10 - 150	7	50		
tert-Butylbenzene	88	89	10 - 150	2	50		
1,1,1,2-Tetrachloroethane	91	93	10 - 150	2	50		
1,1,2,2-Tetrachloroethane	89	92	10 - 150	4	50		
Tetrachloroethene	117	93	10 - 150	22	50		
Toluene	117	79	17 - 150	36	50		
trans-1,2-Dichloroethene	91	96	10 - 150	5	50		
trans-1,3-Dichloropropene	102	74	10 - 150	31	50		
1,2,3-Trichlorobenzene	93	98	10 - 150	6	50		
1,2,4-Trichlorobenzene	92	99	10 - 150	7	50		
1,1,1-Trichloroethane	98	101	10 - 150	3	50		
1,1,2-Trichloroethane	332	223	10 - 150	40	50	*	*
Trichloroethene	97	102	10 - 150	5	50		
Trichlorofluoromethane	95	87	10 - 150	9	50		
1,2,3-Trichloropropane	84	90	10 - 150	6	50		
1,2,4-Trimethylbenzene	79	82	10 - 150	1	50		
1,3,5-Trimethylbenzene	83	86	10 - 150	2	50		

Client: Roux Associates, Inc. Job Number: 490-117346-3

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-391833

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-19	Analysis Batch:	490-393092	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	490-391833	Lab File ID:	12091615.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	3.515 g
Analysis Date:	12/09/2016 1658			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1400				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-19	Analysis Batch:	490-393092	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	490-391833	Lab File ID:	12091616.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	3.515 g
Analysis Date:	12/09/2016 1725			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1400				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Vinyl acetate	119	108	10 - 150	9	50		
Vinyl chloride	90	95	10 - 150	6	50		
Xylenes (total)	87	94	10 - 150	5	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	88	89	70 - 130
Dibromofluoromethane (Surr)	106	106	70 - 130
1,2-Dichloroethane-d4 (Surr)	100	101	70 - 130
Toluene-d8 (Surr)	127	90	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Method Blank - Batch: 490-391971

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-391971/7	Analysis Batch:	490-391971	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-12.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/06/2016 1532	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	0.00840	U	0.00840	0.0500
Benzene	0.000670	U	0.000670	0.00200
Bromobenzene	0.000720	U	0.000720	0.00200
Bromochloromethane	0.000550	U	0.000550	0.00200
Bromodichloromethane	0.000550	U	0.000550	0.00200
Bromoform	0.000550	U	0.000550	0.00200
Bromomethane	0.00120	U	0.00120	0.00200
2-Butanone (MEK)	0.00510	U	0.00510	0.0500
Carbon disulfide	0.00360	U	0.00360	0.00500
Carbon tetrachloride	0.000670	U	0.000670	0.00200
Chlorobenzene	0.000670	U	0.000670	0.00200
Chloroethane	0.00190	U	0.00190	0.00500
Chloroform	0.000670	U	0.000670	0.00200
Chloromethane	0.000670	U	0.000670	0.00200
cis-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
cis-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
Dibromochloromethane	0.000340	U	0.000340	0.00200
1,2-Dibromo-3-chloropropane	0.000700	U	0.000700	0.00500
1,2-Dibromoethane	0.00100	U	0.00100	0.00200
1,2-Dichlorobenzene	0.000340	U	0.000340	0.00200
1,3-Dichlorobenzene	0.000670	U	0.000670	0.00200
1,4-Dichlorobenzene	0.000670	U	0.000670	0.00200
Dichlorodifluoromethane	0.00100	U	0.00100	0.00200
1,1-Dichloroethane	0.000670	U	0.000670	0.00200
1,2-Dichloroethane	0.000670	U	0.000670	0.00200
1,1-Dichloroethene	0.000570	U	0.000570	0.00200
1,2-Dichloropropane	0.000940	U	0.000940	0.00200
1,3-Dichloropropane	0.000940	U	0.000940	0.00200
2,2-Dichloropropane	0.000670	U	0.000670	0.00200
1,1-Dichloropropene	0.000510	U	0.000510	0.00200
Ethylbenzene	0.000670	U	0.000670	0.00200
Hexachlorobutadiene	0.00114	U	0.00114	0.00500
2-Hexanone	0.0167	U	0.0167	0.0500
Iodomethane	0.00670	U	0.00670	0.0200
Isopropylbenzene	0.000410	U	0.000410	0.00200
Methylene bromide	0.000560	U	0.000560	0.00200
Methylene Chloride	0.000860	U	0.000860	0.0100
4-Methyl-2-pentanone (MIBK)	0.00190	U	0.00190	0.0500
Methyl tert butyl ether	0.000960	U	0.000960	0.00200
m,p-Xylene	0.000560	U	0.000560	0.00400
Naphthalene	0.00170	U	0.00170	0.00500
n-Butylbenzene	0.000980	U	0.000980	0.00200
N-Propylbenzene	0.000670	U	0.000670	0.00200
o-Chlorotoluene	0.000890	U	0.000890	0.00200
o-Xylene	0.000670	U	0.000670	0.00200

Client: Roux Associates, Inc. Job Number: 490-117346-3

Method Blank - Batch: 490-391971

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-391971/7	Analysis Batch:	490-391971	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-12.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/06/2016 1532	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.000840	U	0.000840	0.00200
p-Isopropyltoluene	0.000670	U	0.000670	0.00200
sec-Butylbenzene	0.000670	U	0.000670	0.00200
Styrene	0.00110	U	0.00110	0.00200
tert-Butylbenzene	0.000900	U	0.000900	0.00200
1,1,1,2-Tetrachloroethane	0.000670	U	0.000670	0.00200
1,1,2,2-Tetrachloroethane	0.00100	U	0.00100	0.00200
Tetrachloroethene	0.000730	U	0.000730	0.00200
Toluene	0.000740	U	0.000740	0.00200
trans-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
trans-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
1,2,3-Trichlorobenzene	0.000380	U	0.000380	0.00200
1,2,4-Trichlorobenzene	0.000670	U	0.000670	0.00200
1,1,1-Trichloroethane	0.000920	U	0.000920	0.00200
1,1,2-Trichloroethane	0.00140	U	0.00140	0.00500
Trichloroethene	0.000960	U	0.000960	0.00200
Trichlorofluoromethane	0.00100	U	0.00100	0.00200
1,2,3-Trichloropropane	0.000550	U	0.000550	0.00200
1,2,4-Trimethylbenzene	0.00100	U	0.00100	0.00200
1,3,5-Trimethylbenzene	0.000750	U	0.000750	0.00200
Vinyl acetate	0.00440	U	0.00440	0.0200
Vinyl chloride	0.00110	U	0.00110	0.00200
Xylenes (total)	0.00123	U	0.00123	0.00600

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	94	70 - 130
Dibromofluoromethane (Surr)	101	70 - 130
1,2-Dichloroethane-d4 (Surr)	99	70 - 130
Toluene-d8 (Surr)	98	70 - 130

Method Blank TICs- Batch: 490-391971

Cas Number	Analyte	RT	Est. Result (mg	Qual
	Tentatively Identified Compound		None	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-391971

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-391971/3	Analysis Batch:	490-391971	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-08.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/06/2016 1330	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-391971/4	Analysis Batch:	490-391971	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-09.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/06/2016 1401	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	99	82	45 - 145	19	38		
Benzene	116	100	70 - 130	15	37		
Bromobenzene	115	99	67 - 130	15	40		
Bromochloromethane	114	102	70 - 133	11	15		
Bromodichloromethane	109	97	70 - 130	12	20		
Bromoform	115	102	59 - 137	12	17		
Bromomethane	131	116	32 - 150	12	45		
2-Butanone (MEK)	112	95	50 - 149	16	39		
Carbon disulfide	117	100	66 - 138	15	41		
Carbon tetrachloride	131	114	70 - 131	14	41		
Chlorobenzene	119	104	70 - 130	14	40		
Chloroethane	108	91	37 - 150	17	50		
Chloroform	111	96	70 - 130	14	15		
Chloromethane	95	79	53 - 150	18	47		
cis-1,2-Dichloroethene	119	102	70 - 132	16	18		
cis-1,3-Dichloropropene	104	94	70 - 130	10	42		
Dibromochloromethane	110	97	70 - 130	13	14		
1,2-Dibromo-3-chloropropane	113	98	47 - 144	14	38		
1,2-Dibromoethane	105	93	69 - 130	12	17		
1,2-Dichlorobenzene	122	109	70 - 134	11	40		
1,3-Dichlorobenzene	131	114	69 - 137	14	41		
1,4-Dichlorobenzene	130	115	66 - 134	13	41		
Dichlorodifluoromethane	127	111	32 - 150	14	50		
1,1-Dichloroethane	111	96	70 - 130	15	42		
1,2-Dichloroethane	106	96	65 - 134	10	16		
1,1-Dichloroethene	121	107	70 - 131	13	43		
1,2-Dichloropropane	100	90	70 - 130	10	15		
1,3-Dichloropropane	100	90	70 - 130	11	15		
2,2-Dichloropropane	135	117	57 - 150	15	42		
1,1-Dichloropropene	116	99	70 - 130	16	41		
Ethylbenzene	117	102	70 - 130	14	38		
Hexachlorobutadiene	114	100	64 - 137	13	44		
2-Hexanone	104	88	47 - 148	17	38		
Isopropylbenzene	118	104	70 - 130	13	39		
Methylene bromide	107	98	70 - 130	10	19		

Client: Roux Associates, Inc. Job Number: 490-117346-3

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-391971

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-391971/3	Analysis Batch:	490-391971	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-08.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/06/2016 1330	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-391971/4	Analysis Batch:	490-391971	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-09.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/06/2016 1401	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	110	96	69 - 130	14	19		
4-Methyl-2-pentanone (MIBK)	100	86	48 - 150	15	41		
Methyl tert butyl ether	106	100	54 - 145	6	36		
m,p-Xylene	118	103	70 - 130	13	38		
Naphthalene	104	91	55 - 149	13	37		
n-Butylbenzene	117	106	57 - 150	9	39		
N-Propylbenzene	127	109	62 - 150	16	38		
o-Chlorotoluene	132	98	70 - 132	29	41		
o-Xylene	118	103	70 - 130	14	38		
p-Chlorotoluene	130	111	67 - 135	16	41		
p-Isopropyltoluene	124	107	66 - 147	15	38		
sec-Butylbenzene	120	105	68 - 147	13	38		
Styrene	117	104	70 - 131	12	40		
tert-Butylbenzene	113	97	70 - 138	15	38		
1,1,1,2-Tetrachloroethane	123	106	70 - 130	15	41		
1,1,2,2-Tetrachloroethane	110	94	61 - 134	16	16		
Tetrachloroethene	127	111	70 - 130	13	41		
Toluene	114	99	70 - 130	14	40		
trans-1,2-Dichloroethene	113	97	70 - 130	15	41		
trans-1,3-Dichloropropene	106	93	67 - 130	13	41		
1,2,3-Trichlorobenzene	117	108	57 - 146	8	42		
1,2,4-Trichlorobenzene	107	104	47 - 150	3	43		
1,1,1-Trichloroethane	125	106	70 - 130	16	41		
1,1,2-Trichloroethane	97	85	70 - 130	13	17		
Trichloroethene	121	106	70 - 130	12	41		
Trichlorofluoromethane	130	115	53 - 150	13	49		
1,2,3-Trichloropropane	112	99	60 - 139	12	16		
1,2,4-Trimethylbenzene	118	109	70 - 140	8	38		
1,3,5-Trimethylbenzene	137	116	69 - 141	17	38		
Vinyl acetate	159	159	10 - 150	1	50	*	*
Vinyl chloride	108	92	63 - 150	17	46		
Xylenes (total)	118	103	70 - 130	13	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	96	95	70 - 130
Dibromofluoromethane (Surr)	97	95	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94	94	70 - 130
Toluene-d8 (Surr)	96	97	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Method Blank - Batch: 490-392216

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-392216/7	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-34.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/07/2016 0311	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	0.00840	U	0.00840	0.0500
Benzene	0.000670	U	0.000670	0.00200
Bromobenzene	0.000720	U	0.000720	0.00200
Bromochloromethane	0.000550	U	0.000550	0.00200
Bromodichloromethane	0.000550	U	0.000550	0.00200
Bromoform	0.000550	U	0.000550	0.00200
Bromomethane	0.00120	U	0.00120	0.00200
2-Butanone (MEK)	0.00510	U	0.00510	0.0500
Carbon disulfide	0.00360	U	0.00360	0.00500
Carbon tetrachloride	0.000670	U	0.000670	0.00200
Chlorobenzene	0.000670	U	0.000670	0.00200
Chloroethane	0.00190	U	0.00190	0.00500
Chloroform	0.000670	U	0.000670	0.00200
Chloromethane	0.000670	U	0.000670	0.00200
cis-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
cis-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
Dibromochloromethane	0.000340	U	0.000340	0.00200
1,2-Dibromo-3-chloropropane	0.000700	U	0.000700	0.00500
1,2-Dibromoethane	0.00100	U	0.00100	0.00200
1,2-Dichlorobenzene	0.000340	U	0.000340	0.00200
1,3-Dichlorobenzene	0.000670	U	0.000670	0.00200
1,4-Dichlorobenzene	0.000670	U	0.000670	0.00200
Dichlorodifluoromethane	0.00100	U	0.00100	0.00200
1,1-Dichloroethane	0.000670	U	0.000670	0.00200
1,2-Dichloroethane	0.000670	U	0.000670	0.00200
1,1-Dichloroethene	0.000570	U	0.000570	0.00200
1,2-Dichloropropane	0.000940	U	0.000940	0.00200
1,3-Dichloropropane	0.000940	U	0.000940	0.00200
2,2-Dichloropropane	0.000670	U	0.000670	0.00200
1,1-Dichloropropene	0.000510	U	0.000510	0.00200
Ethylbenzene	0.000670	U	0.000670	0.00200
Hexachlorobutadiene	0.00114	U	0.00114	0.00500
2-Hexanone	0.0167	U	0.0167	0.0500
Iodomethane	0.00670	U	0.00670	0.0200
Isopropylbenzene	0.000410	U	0.000410	0.00200
Methylene bromide	0.000560	U	0.000560	0.00200
Methylene Chloride	0.000860	U	0.000860	0.0100
4-Methyl-2-pentanone (MIBK)	0.00190	U	0.00190	0.0500
Methyl tert butyl ether	0.000960	U	0.000960	0.00200
m,p-Xylene	0.000560	U	0.000560	0.00400
Naphthalene	0.00170	U	0.00170	0.00500
n-Butylbenzene	0.000980	U	0.000980	0.00200
N-Propylbenzene	0.000670	U	0.000670	0.00200
o-Chlorotoluene	0.000890	U	0.000890	0.00200
o-Xylene	0.000670	U	0.000670	0.00200

Client: Roux Associates, Inc. Job Number: 490-117346-3

Method Blank - Batch: 490-392216

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-392216/7	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-34.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/07/2016 0311	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.000840	U	0.000840	0.00200
p-Isopropyltoluene	0.000670	U	0.000670	0.00200
sec-Butylbenzene	0.000670	U	0.000670	0.00200
Styrene	0.00110	U	0.00110	0.00200
tert-Butylbenzene	0.000900	U	0.000900	0.00200
1,1,1,2-Tetrachloroethane	0.000670	U	0.000670	0.00200
1,1,2,2-Tetrachloroethane	0.00100	U	0.00100	0.00200
Tetrachloroethene	0.000730	U	0.000730	0.00200
Toluene	0.000740	U	0.000740	0.00200
trans-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
trans-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
1,2,3-Trichlorobenzene	0.0005619	J	0.000380	0.00200
1,2,4-Trichlorobenzene	0.000670	U	0.000670	0.00200
1,1,1-Trichloroethane	0.000920	U	0.000920	0.00200
1,1,2-Trichloroethane	0.00140	U	0.00140	0.00500
Trichloroethene	0.000960	U	0.000960	0.00200
Trichlorofluoromethane	0.00100	U	0.00100	0.00200
1,2,3-Trichloropropane	0.000550	U	0.000550	0.00200
1,2,4-Trimethylbenzene	0.00100	U	0.00100	0.00200
1,3,5-Trimethylbenzene	0.000750	U	0.000750	0.00200
Vinyl acetate	0.00440	U	0.00440	0.0200
Vinyl chloride	0.00110	U	0.00110	0.00200
Xylenes (total)	0.00123	U	0.00123	0.00600

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
Dibromofluoromethane (Surr)	95	70 - 130
1,2-Dichloroethane-d4 (Surr)	93	70 - 130
Toluene-d8 (Surr)	98	70 - 130

Method Blank TICs- Batch: 490-392216

Cas Number	Analyte	RT	Est. Result (mg	Qual
91-57-6	2-Methylnaphthalene	12.60	0.004608	J

Client: Roux Associates, Inc. Job Number: 490-117346-3

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-392216

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-392216/4	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-31.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/07/2016 0139	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-392216/5	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-32.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/07/2016 0210	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	85	80	45 - 145	7	38		
Benzene	102	99	70 - 130	3	37		
Bromobenzene	99	93	67 - 130	6	40		
Bromochloromethane	99	101	70 - 133	2	15		
Bromodichloromethane	99	96	70 - 130	3	20		
Bromoform	100	100	59 - 137	0	17		
Bromomethane	67	71	32 - 150	7	45		
2-Butanone (MEK)	97	95	50 - 149	1	39		
Carbon disulfide	96	96	66 - 138	0	41		
Carbon tetrachloride	111	107	70 - 131	4	41		
Chlorobenzene	103	99	70 - 130	4	40		
Chloroethane	108	84	37 - 150	24	50		
Chloroform	98	97	70 - 130	1	15		
Chloromethane	81	82	53 - 150	0	47		
cis-1,2-Dichloroethene	102	101	70 - 132	1	18		
cis-1,3-Dichloropropene	100	96	70 - 130	4	42		
Dibromochloromethane	98	96	70 - 130	2	14		
1,2-Dibromo-3-chloropropane	110	106	47 - 144	4	38		
1,2-Dibromoethane	95	95	69 - 130	0	17		
1,2-Dichlorobenzene	105	99	70 - 134	6	40		
1,3-Dichlorobenzene	105	100	69 - 137	4	41		
1,4-Dichlorobenzene	101	96	66 - 134	5	41		
Dichlorodifluoromethane	118	113	32 - 150	4	50		
1,1-Dichloroethane	98	97	70 - 130	1	42		
1,2-Dichloroethane	93	95	65 - 134	3	16		
1,1-Dichloroethene	104	104	70 - 131	1	43		
1,2-Dichloropropane	94	90	70 - 130	3	15		
1,3-Dichloropropane	93	91	70 - 130	2	15		
2,2-Dichloropropane	117	111	57 - 150	5	42		
1,1-Dichloropropene	101	98	70 - 130	3	41		
Ethylbenzene	105	100	70 - 130	5	38		
Hexachlorobutadiene	97	93	64 - 137	5	44		
2-Hexanone	97	96	47 - 148	2	38		
Isopropylbenzene	108	102	70 - 130	5	39		
Methylene bromide	94	93	70 - 130	1	19		

Client: Roux Associates, Inc. Job Number: 490-117346-3

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-392216

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-392216/4	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-31.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/07/2016 0139	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-392216/5	Analysis Batch:	490-392216	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120616-32.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/07/2016 0210	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	95	98	69 - 130	2	19		
4-Methyl-2-pentanone (MIBK)	95	90	48 - 150	6	41		
Methyl tert butyl ether	107	110	54 - 145	2	36		
m,p-Xylene	107	101	70 - 130	6	38		
Naphthalene	110	110	55 - 149	0	37		
n-Butylbenzene	102	98	57 - 150	4	39		
N-Propylbenzene	109	102	62 - 150	7	38		
o-Chlorotoluene	107	101	70 - 132	6	41		
o-Xylene	105	100	70 - 130	5	38		
p-Chlorotoluene	101	98	67 - 135	3	41		
p-Isopropyltoluene	109	102	66 - 147	7	38		
sec-Butylbenzene	110	103	68 - 147	6	38		
Styrene	106	102	70 - 131	4	40		
tert-Butylbenzene	109	104	70 - 138	5	38		
1,1,1,2-Tetrachloroethane	107	105	70 - 130	2	41		
1,1,2,2-Tetrachloroethane	92	90	61 - 134	2	16		
Tetrachloroethene	105	99	70 - 130	5	41		
Toluene	103	96	70 - 130	7	40		
trans-1,2-Dichloroethene	98	96	70 - 130	3	41		
trans-1,3-Dichloropropene	100	97	67 - 130	3	41		
1,2,3-Trichlorobenzene	108	99	57 - 146	8	42		
1,2,4-Trichlorobenzene	100	95	47 - 150	5	43		
1,1,1-Trichloroethane	108	106	70 - 130	2	41		
1,1,2-Trichloroethane	88	87	70 - 130	1	17		
Trichloroethene	105	99	70 - 130	6	41		
Trichlorofluoromethane	109	107	53 - 150	2	49		
1,2,3-Trichloropropane	92	92	60 - 139	0	16		
1,2,4-Trimethylbenzene	112	106	70 - 140	6	38		
1,3,5-Trimethylbenzene	109	104	69 - 141	5	38		
Vinyl acetate	53	48	10 - 150	11	50		
Vinyl chloride	100	98	63 - 150	2	46		
Xylenes (total)	106	100	70 - 130	6	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	99	98	70 - 130
Dibromofluoromethane (Surr)	95	99	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93	97	70 - 130
Toluene-d8 (Surr)	100	98	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Method Blank - Batch: 490-392335

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-392335/7	Analysis Batch:	490-392335	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	12071611.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/07/2016 1647	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	2.00	U	2.00	2.50
Benzene	0.0340	U	0.0340	0.100
Bromobenzene	0.0360	U	0.0360	0.100
Bromochloromethane	0.0280	U	0.0280	0.100
Bromodichloromethane	0.0280	U	0.0280	0.100
Bromoform	0.0280	U	0.0280	0.100
Bromomethane	0.0600	U	0.0600	0.100
2-Butanone (MEK)	0.260	U	0.260	2.50
Carbon disulfide	0.180	U	0.180	0.250
Carbon tetrachloride	0.0340	U	0.0340	0.100
Chlorobenzene	0.0340	U	0.0340	0.100
Chloroethane	0.0950	U	0.0950	0.250
Chloroform	0.0340	U	0.0340	0.100
Chloromethane	0.0340	U	0.0340	0.100
cis-1,2-Dichloroethene	0.0340	U	0.0340	0.100
cis-1,3-Dichloropropene	0.0340	U	0.0340	0.100
Dibromochloromethane	0.0170	U	0.0170	0.100
1,2-Dibromo-3-chloropropane	0.0350	U	0.0350	0.250
1,2-Dibromoethane	0.0500	U	0.0500	0.100
1,2-Dichlorobenzene	0.0170	U	0.0170	0.100
1,3-Dichlorobenzene	0.0340	U	0.0340	0.100
1,4-Dichlorobenzene	0.0470	U	0.0470	0.100
Dichlorodifluoromethane	0.0500	U	0.0500	0.100
1,1-Dichloroethane	0.0340	U	0.0340	0.100
1,2-Dichloroethane	0.0340	U	0.0340	0.100
1,1-Dichloroethene	0.0290	U	0.0290	0.100
1,2-Dichloropropane	0.0470	U	0.0470	0.100
1,3-Dichloropropane	0.0470	U	0.0470	0.100
2,2-Dichloropropane	0.0340	U	0.0340	0.100
1,1-Dichloropropene	0.0260	U	0.0260	0.100
Ethylbenzene	0.0340	U	0.0340	0.100
Hexachlorobutadiene	0.0550	U	0.0550	0.250
2-Hexanone	0.840	U	0.840	2.50
Iodomethane	0.340	U	0.340	1.00
Isopropylbenzene	0.0210	U	0.0210	0.100
Methylene bromide	0.0280	U	0.0280	0.100
Methylene Chloride	0.0500	U	0.0500	0.500
4-Methyl-2-pentanone (MIBK)	0.850	U	0.850	2.50
Methyl tert butyl ether	0.0500	U	0.0500	0.100
m,p-Xylene	0.0280	U	0.0280	0.150
Naphthalene	0.0850	U	0.0850	0.250
n-Butylbenzene	0.0500	U	0.0500	0.100
N-Propylbenzene	0.0340	U	0.0340	0.100
o-Chlorotoluene	0.0460	U	0.0460	0.100
o-Xylene	0.0340	U	0.0340	0.100

Client: Roux Associates, Inc. Job Number: 490-117346-3

Method Blank - Batch: 490-392335

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-392335/7	Analysis Batch:	490-392335	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	12071611.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/07/2016 1647	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.0420	U	0.0420	0.100
p-Isopropyltoluene	0.0340	U	0.0340	0.100
sec-Butylbenzene	0.0340	U	0.0340	0.100
Styrene	0.0550	U	0.0550	0.100
tert-Butylbenzene	0.0500	U	0.0500	0.100
1,1,1,2-Tetrachloroethane	0.0340	U	0.0340	0.100
1,1,2,2-Tetrachloroethane	0.0500	U	0.0500	0.100
Tetrachloroethene	0.0340	U	0.0340	0.100
Toluene	0.0370	U	0.0370	0.100
trans-1,2-Dichloroethene	0.0340	U	0.0340	0.100
trans-1,3-Dichloropropene	0.0340	U	0.0340	0.100
1,2,3-Trichlorobenzene	0.0190	U	0.0190	0.100
1,2,4-Trichlorobenzene	0.0340	U	0.0340	0.100
1,1,1-Trichloroethane	0.0460	U	0.0460	0.100
1,1,2-Trichloroethane	0.0700	U	0.0700	0.250
Trichloroethene	0.0500	U	0.0500	0.100
Trichlorofluoromethane	0.0500	U	0.0500	0.100
1,2,3-Trichloropropane	0.0280	U	0.0280	0.100
1,2,4-Trimethylbenzene	0.0500	U	0.0500	0.100
1,3,5-Trimethylbenzene	0.0380	U	0.0380	0.100
Vinyl acetate	0.220	U	0.220	1.00
Vinyl chloride	0.0550	U	0.0550	0.100
Xylenes (total)	0.0620	U	0.0620	0.150

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	89	70 - 130
Dibromofluoromethane (Surr)	106	70 - 130
1,2-Dichloroethane-d4 (Surr)	107	70 - 130
Toluene-d8 (Surr)	99	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-392335

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-392335/3	Analysis Batch:	490-392335	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	12071607.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/07/2016 1457	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-392335/4	Analysis Batch:	490-392335	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	12071608.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/07/2016 1525	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	101	109	45 - 145	7	38		
Benzene	92	92	70 - 130	0	37		
Bromobenzene	77	78	67 - 130	1	40		
Bromochloromethane	95	96	70 - 133	1	15		
Bromodichloromethane	90	89	70 - 130	1	20		
Bromoform	89	91	59 - 137	2	17		
Bromomethane	58	57	32 - 150	1	45		
2-Butanone (MEK)	95	100	50 - 149	6	39		
Carbon disulfide	88	89	66 - 138	1	41		
Carbon tetrachloride	95	94	70 - 131	0	41		
Chlorobenzene	90	91	70 - 130	1	40		
Chloroethane	87	89	37 - 150	2	50		
Chloroform	93	93	70 - 130	0	15		
Chloromethane	94	93	53 - 150	2	47		
cis-1,2-Dichloroethene	89	89	70 - 132	1	18		
cis-1,3-Dichloropropene	83	84	70 - 130	1	42		
Dibromochloromethane	90	91	70 - 130	1	14		
1,2-Dibromo-3-chloropropane	88	89	47 - 144	2	38		
1,2-Dibromoethane	87	90	69 - 130	3	17		
1,2-Dichlorobenzene	90	90	70 - 134	0	40		
1,3-Dichlorobenzene	87	87	69 - 137	0	41		
1,4-Dichlorobenzene	87	88	66 - 134	1	41		
Dichlorodifluoromethane	122	121	32 - 150	1	50		
1,1-Dichloroethane	89	89	70 - 130	0	42		
1,2-Dichloroethane	92	93	65 - 134	1	16		
1,1-Dichloroethene	92	93	70 - 131	2	43		
1,2-Dichloropropane	85	86	70 - 130	0	15		
1,3-Dichloropropane	85	85	70 - 130	1	15		
2,2-Dichloropropane	92	93	57 - 150	2	42		
1,1-Dichloropropene	89	89	70 - 130	0	41		
Ethylbenzene	87	89	70 - 130	1	38		
Hexachlorobutadiene	90	89	64 - 137	1	44		
2-Hexanone	88	92	47 - 148	4	38		
Isopropylbenzene	88	90	70 - 130	2	39		
Methylene bromide	91	91	70 - 130	0	19		

Client: Roux Associates, Inc. Job Number: 490-117346-3

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-392335

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-392335/3	Analysis Batch:	490-392335	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	12071607.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/07/2016 1457	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-392335/4	Analysis Batch:	490-392335	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	12071608.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/07/2016 1525	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	90	89	69 - 130	1	19		
4-Methyl-2-pentanone (MIBK)	88	91	48 - 150	3	41		
Methyl tert butyl ether	91	93	54 - 145	2	36		
m,p-Xylene	87	87	70 - 130	0	38		
Naphthalene	87	88	55 - 149	1	37		
n-Butylbenzene	88	88	57 - 150	0	39		
N-Propylbenzene	79	79	62 - 150	0	38		
o-Chlorotoluene	82	82	70 - 132	0	41		
o-Xylene	86	88	70 - 130	2	38		
p-Chlorotoluene	83	82	67 - 135	0	41		
p-Isopropyltoluene	86	86	66 - 147	0	38		
sec-Butylbenzene	85	86	68 - 147	1	38		
Styrene	88	88	70 - 131	1	40		
tert-Butylbenzene	84	85	70 - 138	1	38		
1,1,1,2-Tetrachloroethane	90	92	70 - 130	2	41		
1,1,2,2-Tetrachloroethane	80	81	61 - 134	0	16		
Tetrachloroethene	90	90	70 - 130	1	41		
Toluene	89	91	70 - 130	3	40		
trans-1,2-Dichloroethene	91	89	70 - 130	2	41		
trans-1,3-Dichloropropene	86	87	67 - 130	1	41		
1,2,3-Trichlorobenzene	92	91	57 - 146	0	42		
1,2,4-Trichlorobenzene	86	85	47 - 150	1	43		
1,1,1-Trichloroethane	94	95	70 - 130	1	41		
1,1,2-Trichloroethane	87	89	70 - 130	2	17		
Trichloroethene	92	93	70 - 130	1	41		
Trichlorofluoromethane	84	84	53 - 150	1	49		
1,2,3-Trichloropropane	80	81	60 - 139	2	16		
1,2,4-Trimethylbenzene	85	85	70 - 140	0	38		
1,3,5-Trimethylbenzene	83	84	69 - 141	2	38		
Vinyl acetate	98	91	10 - 150	7	50		
Vinyl chloride	99	95	63 - 150	4	46		
Xylenes (total)	86	87	70 - 130	1	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	86	86	70 - 130
Dibromofluoromethane (Surr)	107	106	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	104	70 - 130
Toluene-d8 (Surr)	99	100	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Method Blank - Batch: 490-393067

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-393067/7	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120916-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/09/2016 1253	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	0.00840	U	0.00840	0.0500
Benzene	0.000670	U	0.000670	0.00200
Bromobenzene	0.000720	U	0.000720	0.00200
Bromochloromethane	0.000550	U	0.000550	0.00200
Bromodichloromethane	0.000550	U	0.000550	0.00200
Bromoform	0.000550	U	0.000550	0.00200
Bromomethane	0.00120	U	0.00120	0.00200
2-Butanone (MEK)	0.00510	U	0.00510	0.0500
Carbon disulfide	0.00360	U	0.00360	0.00500
Carbon tetrachloride	0.000670	U	0.000670	0.00200
Chlorobenzene	0.000670	U	0.000670	0.00200
Chloroethane	0.00190	U	0.00190	0.00500
Chloroform	0.000670	U	0.000670	0.00200
Chloromethane	0.000670	U	0.000670	0.00200
cis-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
cis-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
Dibromochloromethane	0.000340	U	0.000340	0.00200
1,2-Dibromo-3-chloropropane	0.000700	U	0.000700	0.00500
1,2-Dibromoethane	0.00100	U	0.00100	0.00200
1,2-Dichlorobenzene	0.000340	U	0.000340	0.00200
1,3-Dichlorobenzene	0.000670	U	0.000670	0.00200
1,4-Dichlorobenzene	0.000670	U	0.000670	0.00200
Dichlorodifluoromethane	0.00100	U	0.00100	0.00200
1,1-Dichloroethane	0.000670	U	0.000670	0.00200
1,2-Dichloroethane	0.000670	U	0.000670	0.00200
1,1-Dichloroethene	0.000570	U	0.000570	0.00200
1,2-Dichloropropane	0.000940	U	0.000940	0.00200
1,3-Dichloropropane	0.000940	U	0.000940	0.00200
2,2-Dichloropropane	0.000670	U	0.000670	0.00200
1,1-Dichloropropene	0.000510	U	0.000510	0.00200
Ethylbenzene	0.000670	U	0.000670	0.00200
Hexachlorobutadiene	0.00114	U	0.00114	0.00500
2-Hexanone	0.0167	U	0.0167	0.0500
Iodomethane	0.00670	U	0.00670	0.0200
Isopropylbenzene	0.000410	U	0.000410	0.00200
Methylene bromide	0.000560	U	0.000560	0.00200
Methylene Chloride	0.000860	U	0.000860	0.0100
4-Methyl-2-pentanone (MIBK)	0.00190	U	0.00190	0.0500
Methyl tert butyl ether	0.000960	U	0.000960	0.00200
m,p-Xylene	0.000560	U	0.000560	0.00400
Naphthalene	0.00170	U	0.00170	0.00500
n-Butylbenzene	0.000980	U	0.000980	0.00200
N-Propylbenzene	0.000670	U	0.000670	0.00200
o-Chlorotoluene	0.000890	U	0.000890	0.00200
o-Xylene	0.000670	U	0.000670	0.00200

Client: Roux Associates, Inc. Job Number: 490-117346-3

Method Blank - Batch: 490-393067

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-393067/7	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120916-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/09/2016 1253	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.000840	U	0.000840	0.00200
p-Isopropyltoluene	0.000670	U	0.000670	0.00200
sec-Butylbenzene	0.000670	U	0.000670	0.00200
Styrene	0.00110	U	0.00110	0.00200
tert-Butylbenzene	0.000900	U	0.000900	0.00200
1,1,1,2-Tetrachloroethane	0.000670	U	0.000670	0.00200
1,1,2,2-Tetrachloroethane	0.00100	U	0.00100	0.00200
Tetrachloroethene	0.000730	U	0.000730	0.00200
Toluene	0.000740	U	0.000740	0.00200
trans-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
trans-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
1,2,3-Trichlorobenzene	0.000380	U	0.000380	0.00200
1,2,4-Trichlorobenzene	0.000670	U	0.000670	0.00200
1,1,1-Trichloroethane	0.000920	U	0.000920	0.00200
1,1,2-Trichloroethane	0.00140	U	0.00140	0.00500
Trichloroethene	0.000960	U	0.000960	0.00200
Trichlorofluoromethane	0.00100	U	0.00100	0.00200
1,2,3-Trichloropropane	0.000550	U	0.000550	0.00200
1,2,4-Trimethylbenzene	0.00100	U	0.00100	0.00200
1,3,5-Trimethylbenzene	0.000750	U	0.000750	0.00200
Vinyl acetate	0.00440	U	0.00440	0.0200
Vinyl chloride	0.00110	U	0.00110	0.00200
Xylenes (total)	0.00123	U	0.00123	0.00600

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	90	70 - 130
Dibromofluoromethane (Surr)	98	70 - 130
1,2-Dichloroethane-d4 (Surr)	98	70 - 130
Toluene-d8 (Surr)	94	70 - 130

Method Blank TICs- Batch: 490-393067

Cas Number	Analyte	RT	Est. Result (mg	Qual
91-57-6	2-Methylnaphthalene	12.60	0.001745	J
	Tentatively Identified Compound		None	

Client: Roux Associates, Inc. Job Number: 490-117346-3

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-393067

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-393067/4	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120916-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/09/2016 1121	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-393067/5	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120916-05.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/09/2016 1152	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	76	80	45 - 145	4	38		
Benzene	96	101	70 - 130	5	37		
Bromobenzene	87	90	67 - 130	4	40		
Bromochloromethane	102	104	70 - 133	2	15		
Bromodichloromethane	98	98	70 - 130	0	20		
Bromoform	101	100	59 - 137	1	17		
Bromomethane	91	100	32 - 150	9	45		
2-Butanone (MEK)	91	95	50 - 149	3	39		
Carbon disulfide	88	96	66 - 138	10	41		
Carbon tetrachloride	101	107	70 - 131	6	41		
Chlorobenzene	99	104	70 - 130	5	40		
Chloroethane	85	89	37 - 150	5	50		
Chloroform	93	97	70 - 130	4	15		
Chloromethane	67	76	53 - 150	12	47		
cis-1,2-Dichloroethene	99	103	70 - 132	4	18		
cis-1,3-Dichloropropene	93	94	70 - 130	1	42		
Dibromochloromethane	96	99	70 - 130	3	14		
1,2-Dibromo-3-chloropropane	95	100	47 - 144	6	38		
1,2-Dibromoethane	96	95	69 - 130	1	17		
1,2-Dichlorobenzene	103	106	70 - 134	3	40		
1,3-Dichlorobenzene	108	111	69 - 137	3	41		
1,4-Dichlorobenzene	104	108	66 - 134	4	41		
Dichlorodifluoromethane	101	109	32 - 150	7	50		
1,1-Dichloroethane	90	94	70 - 130	4	42		
1,2-Dichloroethane	95	93	65 - 134	2	16		
1,1-Dichloroethene	95	101	70 - 131	6	43		
1,2-Dichloropropane	88	90	70 - 130	2	15		
1,3-Dichloropropane	89	89	70 - 130	0	15		
2,2-Dichloropropane	105	111	57 - 150	5	42		
1,1-Dichloropropene	95	99	70 - 130	4	41		
Ethylbenzene	98	104	70 - 130	6	38		
Hexachlorobutadiene	91	98	64 - 137	7	44		
2-Hexanone	90	91	47 - 148	1	38		
Isopropylbenzene	102	109	70 - 130	6	39		
Methylene bromide	96	92	70 - 130	5	19		

Client: Roux Associates, Inc. Job Number: 490-117346-3

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-393067

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-393067/4	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120916-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/09/2016 1121	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-393067/5	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	120916-05.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/09/2016 1152	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	92	93	69 - 130	2	19		
4-Methyl-2-pentanone (MIBK)	89	88	48 - 150	1	41		
Methyl tert butyl ether	106	102	54 - 145	4	36		
m,p-Xylene	99	105	70 - 130	6	38		
Naphthalene	106	101	55 - 149	5	37		
n-Butylbenzene	98	104	57 - 150	5	39		
N-Propylbenzene	95	103	62 - 150	8	38		
o-Chlorotoluene	95	102	70 - 132	7	41		
o-Xylene	100	105	70 - 130	5	38		
p-Chlorotoluene	96	101	67 - 135	6	41		
p-Isopropyltoluene	102	110	66 - 147	7	38		
sec-Butylbenzene	99	106	68 - 147	7	38		
Styrene	103	108	70 - 131	5	40		
tert-Butylbenzene	96	101	70 - 138	5	38		
1,1,1,2-Tetrachloroethane	101	105	70 - 130	4	41		
1,1,2,2-Tetrachloroethane	83	86	61 - 134	3	16		
Tetrachloroethene	104	112	70 - 130	7	41		
Toluene	94	100	70 - 130	6	40		
trans-1,2-Dichloroethene	89	93	70 - 130	5	41		
trans-1,3-Dichloropropene	95	95	67 - 130	0	41		
1,2,3-Trichlorobenzene	111	109	57 - 146	1	42		
1,2,4-Trichlorobenzene	110	109	47 - 150	1	43		
1,1,1-Trichloroethane	100	105	70 - 130	5	41		
1,1,2-Trichloroethane	86	86	70 - 130	0	17		
Trichloroethene	101	106	70 - 130	5	41		
Trichlorofluoromethane	99	103	53 - 150	4	49		
1,2,3-Trichloropropane	84	87	60 - 139	3	16		
1,2,4-Trimethylbenzene	101	106	70 - 140	5	38		
1,3,5-Trimethylbenzene	100	104	69 - 141	4	38		
Vinyl acetate	156	141	10 - 150	11	50	*	
Vinyl chloride	85	91	63 - 150	7	46		
Xylenes (total)	99	105	70 - 130	5	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	84	84	70 - 130
Dibromofluoromethane (Surr)	96	93	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99	90	70 - 130
Toluene-d8 (Surr)	96	98	70 - 130

Method Blank - Batch: 490-393092

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-393092/7	Analysis Batch:	490-393092	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	12091610.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/09/2016 1421	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	2.00	U	2.00	2.50
Benzene	0.0340	U	0.0340	0.100
Bromobenzene	0.0360	U	0.0360	0.100
Bromochloromethane	0.0280	U	0.0280	0.100
Bromodichloromethane	0.0280	U	0.0280	0.100
Bromoform	0.0280	U	0.0280	0.100
Bromomethane	0.0600	U	0.0600	0.100
2-Butanone (MEK)	0.260	U	0.260	2.50
Carbon disulfide	0.180	U	0.180	0.250
Carbon tetrachloride	0.0340	U	0.0340	0.100
Chlorobenzene	0.0340	U	0.0340	0.100
Chloroethane	0.0950	U	0.0950	0.250
Chloroform	0.0340	U	0.0340	0.100
Chloromethane	0.0340	U	0.0340	0.100
cis-1,2-Dichloroethene	0.0340	U	0.0340	0.100
cis-1,3-Dichloropropene	0.0340	U	0.0340	0.100
Dibromochloromethane	0.0170	U	0.0170	0.100
1,2-Dibromo-3-chloropropane	0.0350	U	0.0350	0.250
1,2-Dibromoethane	0.0500	U	0.0500	0.100
1,2-Dichlorobenzene	0.0170	U	0.0170	0.100
1,3-Dichlorobenzene	0.0340	U	0.0340	0.100
1,4-Dichlorobenzene	0.0470	U	0.0470	0.100
Dichlorodifluoromethane	0.0500	U	0.0500	0.100
1,1-Dichloroethane	0.0340	U	0.0340	0.100
1,2-Dichloroethane	0.0340	U	0.0340	0.100
1,1-Dichloroethene	0.0290	U	0.0290	0.100
1,2-Dichloropropane	0.0470	U	0.0470	0.100
1,3-Dichloropropane	0.0470	U	0.0470	0.100
2,2-Dichloropropane	0.0340	U	0.0340	0.100
1,1-Dichloropropene	0.0260	U	0.0260	0.100
Ethylbenzene	0.0340	U	0.0340	0.100
Hexachlorobutadiene	0.0550	U	0.0550	0.250
2-Hexanone	0.840	U	0.840	2.50
Iodomethane	0.340	U	0.340	1.00
Isopropylbenzene	0.0210	U	0.0210	0.100
Methylene bromide	0.0280	U	0.0280	0.100
Methylene Chloride	0.0500	U	0.0500	0.500
4-Methyl-2-pentanone (MIBK)	0.850	U	0.850	2.50
Methyl tert butyl ether	0.0500	U	0.0500	0.100
m,p-Xylene	0.0280	U	0.0280	0.150
Naphthalene	0.0850	U	0.0850	0.250
n-Butylbenzene	0.0500	U	0.0500	0.100
N-Propylbenzene	0.0340	U	0.0340	0.100
o-Chlorotoluene	0.0460	U	0.0460	0.100
o-Xylene	0.0340	U	0.0340	0.100

Client: Roux Associates, Inc. Job Number: 490-117346-3

Method Blank - Batch: 490-393092

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-393092/7	Analysis Batch:	490-393092	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	12091610.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/09/2016 1421	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.0420	U	0.0420	0.100
p-Isopropyltoluene	0.0340	U	0.0340	0.100
sec-Butylbenzene	0.0340	U	0.0340	0.100
Styrene	0.0550	U	0.0550	0.100
tert-Butylbenzene	0.0500	U	0.0500	0.100
1,1,1,2-Tetrachloroethane	0.0340	U	0.0340	0.100
1,1,2,2-Tetrachloroethane	0.0500	U	0.0500	0.100
Tetrachloroethene	0.0340	U	0.0340	0.100
Toluene	0.0370	U	0.0370	0.100
trans-1,2-Dichloroethene	0.0340	U	0.0340	0.100
trans-1,3-Dichloropropene	0.0340	U	0.0340	0.100
1,2,3-Trichlorobenzene	0.0190	U	0.0190	0.100
1,2,4-Trichlorobenzene	0.0340	U	0.0340	0.100
1,1,1-Trichloroethane	0.0460	U	0.0460	0.100
1,1,2-Trichloroethane	0.0700	U	0.0700	0.250
Trichloroethene	0.0500	U	0.0500	0.100
Trichlorofluoromethane	0.0500	U	0.0500	0.100
1,2,3-Trichloropropane	0.0280	U	0.0280	0.100
1,2,4-Trimethylbenzene	0.0500	U	0.0500	0.100
1,3,5-Trimethylbenzene	0.0380	U	0.0380	0.100
Vinyl acetate	0.220	U	0.220	1.00
Vinyl chloride	0.0550	U	0.0550	0.100
Xylenes (total)	0.0620	U	0.0620	0.150

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	87	70 - 130
Dibromofluoromethane (Surr)	106	70 - 130
1,2-Dichloroethane-d4 (Surr)	104	70 - 130
Toluene-d8 (Surr)	98	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-393092

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-393092/3	Analysis Batch:	490-393092	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	12091606.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/09/2016 1231	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-393092/4	Analysis Batch:	490-393092	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	12091607.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/09/2016 1259	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	114	106	45 - 145	7	38		
Benzene	97	96	70 - 130	1	37		
Bromobenzene	82	83	67 - 130	1	40		
Bromochloromethane	108	108	70 - 133	0	15		
Bromodichloromethane	97	101	70 - 130	4	20		
Bromoform	82	103	59 - 137	23	17		*
Bromomethane	93	99	32 - 150	7	45		
2-Butanone (MEK)	106	102	50 - 149	4	39		
Carbon disulfide	95	95	66 - 138	0	41		
Carbon tetrachloride	108	107	70 - 131	1	41		
Chlorobenzene	98	98	70 - 130	0	40		
Chloroethane	108	116	37 - 150	8	50		
Chloroform	102	102	70 - 130	1	15		
Chloromethane	94	92	53 - 150	2	47		
cis-1,2-Dichloroethene	96	97	70 - 132	0	18		
cis-1,3-Dichloropropene	71	80	70 - 130	12	42		
Dibromochloromethane	92	92	70 - 130	1	14		
1,2-Dibromo-3-chloropropane	100	100	47 - 144	0	38		
1,2-Dibromoethane	95	86	69 - 130	10	17		
1,2-Dichlorobenzene	98	96	70 - 134	1	40		
1,3-Dichlorobenzene	96	94	69 - 137	2	41		
1,4-Dichlorobenzene	96	95	66 - 134	0	41		
Dichlorodifluoromethane	124	123	32 - 150	1	50		
1,1-Dichloroethane	92	93	70 - 130	1	42		
1,2-Dichloroethane	102	101	65 - 134	1	16		
1,1-Dichloroethene	101	102	70 - 131	1	43		
1,2-Dichloropropane	88	89	70 - 130	1	15		
1,3-Dichloropropane	83	80	70 - 130	3	15		
2,2-Dichloropropane	101	102	57 - 150	1	42		
1,1-Dichloropropene	96	96	70 - 130	0	41		
Ethylbenzene	97	95	70 - 130	1	38		
Hexachlorobutadiene	101	100	64 - 137	1	44		
2-Hexanone	96	87	47 - 148	10	38		
Isopropylbenzene	78	102	70 - 130	27	39		
Methylene bromide	101	101	70 - 130	0	19		

Client: Roux Associates, Inc. Job Number: 490-117346-3

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-393092

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-393092/3	Analysis Batch:	490-393092	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	12091606.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/09/2016 1231	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-393092/4	Analysis Batch:	490-393092	Instrument ID:	HP68
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	12091607.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/09/2016 1259	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	95	97	69 - 130	2	19		
4-Methyl-2-pentanone (MIBK)	74	84	48 - 150	12	41		
Methyl tert butyl ether	103	104	54 - 145	0	36		
m,p-Xylene	95	97	70 - 130	3	38		
Naphthalene	100	99	55 - 149	1	37		
n-Butylbenzene	97	96	57 - 150	1	39		
N-Propylbenzene	88	86	62 - 150	2	38		
o-Chlorotoluene	89	88	70 - 132	2	41		
o-Xylene	75	100	70 - 130	29	38		
p-Chlorotoluene	89	88	67 - 135	2	41		
p-Isopropyltoluene	97	94	66 - 147	2	38		
sec-Butylbenzene	94	93	68 - 147	2	38		
Styrene	76	102	70 - 131	29	40		
tert-Butylbenzene	94	92	70 - 138	2	38		
1,1,1,2-Tetrachloroethane	95	102	70 - 130	7	41		
1,1,2,2-Tetrachloroethane	85	95	61 - 134	10	16		
Tetrachloroethene	94	89	70 - 130	5	41		
Toluene	87	87	70 - 130	0	40		
trans-1,2-Dichloroethene	94	94	70 - 130	1	41		
trans-1,3-Dichloropropene	93	84	67 - 130	10	41		
1,2,3-Trichlorobenzene	104	103	57 - 146	1	42		
1,2,4-Trichlorobenzene	101	99	47 - 150	1	43		
1,1,1-Trichloroethane	105	106	70 - 130	0	41		
1,1,2-Trichloroethane	95	84	70 - 130	13	17		
Trichloroethene	103	102	70 - 130	1	41		
Trichlorofluoromethane	93	102	53 - 150	9	49		
1,2,3-Trichloropropane	87	88	60 - 139	1	16		
1,2,4-Trimethylbenzene	94	91	70 - 140	3	38		
1,3,5-Trimethylbenzene	92	91	69 - 141	2	38		
Vinyl acetate	123	112	10 - 150	10	50		
Vinyl chloride	92	91	63 - 150	2	46		
Xylenes (total)	85	99	70 - 130	15	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	86	101	70 - 130
Dibromofluoromethane (Surr)	109	112	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104	104	70 - 130
Toluene-d8 (Surr)	78	90	70 - 130

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-393278

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-A-4-C MS	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-393278	Lab File ID:	120916-20.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.52 g
Analysis Date:	12/09/2016 1932			Final Weight/Volume:	5.0 mL
Prep Date:	12/09/2016 1655				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-A-4-D MSD	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-393278	Lab File ID:	120916-21.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.07 g
Analysis Date:	12/09/2016 2002			Final Weight/Volume:	5.0 mL
Prep Date:	12/09/2016 1655				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	35	45	10 - 150	9	50		
Benzene	113	106	21 - 150	2	50		
Bromobenzene	213	206	10 - 150	6	50	*	*
Bromochloromethane	111	107	10 - 150	5	50		
Bromodichloromethane	702	343	10 - 150	61	50	*	*
Bromoform	92	96	10 - 150	12	50		
Bromomethane	95	79	10 - 150	11	50		
2-Butanone (MEK)	90	78	10 - 150	5	50		
Carbon disulfide	66	69	10 - 150	9	50		
Carbon tetrachloride	88	91	10 - 150	12	50		
Chlorobenzene	102	103	10 - 150	9	50		
Chloroethane	85	137	10 - 150	55	50		*
Chloroform	202	135	10 - 150	32	50	*	
Chloromethane	75	74	10 - 150	7	50		
cis-1,2-Dichloroethene	108	107	10 - 150	7	50		
cis-1,3-Dichloropropene	135	128	10 - 150	3	50		
Dibromochloromethane	237	174	10 - 150	23	50	*	*
1,2-Dibromo-3-chloropropane	109	127	10 - 150	23	50	*	*
1,2-Dibromoethane	117	116	10 - 150	8	50		
1,2-Dichlorobenzene	69	85	10 - 150	29	50	*	*
1,3-Dichlorobenzene	71	87	10 - 150	29	50	*	*
1,4-Dichlorobenzene	72	87	10 - 150	27	50	*	*
Dichlorodifluoromethane	117	114	10 - 150	7	50		
1,1-Dichloroethane	102	99	10 - 150	5	50		
1,2-Dichloroethane	142	114	24 - 138	13	50	*	
1,1-Dichloroethene	109	106	10 - 150	6	50		
1,2-Dichloropropane	258	227	10 - 150	5	50	*	*
1,3-Dichloropropane	123	119	10 - 150	5	50		
2,2-Dichloropropane	115	116	10 - 150	9	50		
1,1-Dichloropropene	89	97	10 - 150	17	50		
Ethylbenzene	85	82	10 - 150	4	50		
Hexachlorobutadiene	13	16	10 - 150	31	50	*	*

Client: Roux Associates, Inc. Job Number: 490-117346-3

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-393278

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-A-4-C MS	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-393278	Lab File ID:	120916-20.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.52 g
Analysis Date:	12/09/2016 1932			Final Weight/Volume:	5.0 mL
Prep Date:	12/09/2016 1655				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-A-4-D MSD	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-393278	Lab File ID:	120916-21.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.07 g
Analysis Date:	12/09/2016 2002			Final Weight/Volume:	5.0 mL
Prep Date:	12/09/2016 1655				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2-Hexanone	173	145	10 - 150	9	50	*	
Isopropylbenzene	67	14	10 - 150	21	50		
Methylene bromide	98	93	10 - 150	4	50		
Methylene Chloride	101	152	24 - 150	49	50		*
4-Methyl-2-pentanone (MIBK)	144	148	10 - 150	11	50		
Methyl tert butyl ether	105	114	10 - 150	16	50		
m,p-Xylene	79	59	10 - 150	9	50		
Naphthalene	39	50	10 - 150	14	50	*	*
n-Butylbenzene	56	50	10 - 150	1	50	*	*
N-Propylbenzene	140	88	10 - 150	8	50	*	*
o-Chlorotoluene	114	121	10 - 150	15	50	*	*
o-Xylene	75	62	10 - 150	6	50		
p-Chlorotoluene	139	146	10 - 150	13	50	*	*
p-Isopropyltoluene	44	53	10 - 150	26	50	*	*
sec-Butylbenzene	62	52	10 - 150	3	50	*	*
Styrene	83	86	10 - 150	13	50		
tert-Butylbenzene	55	61	10 - 150	12	50	*	*
1,1,1,2-Tetrachloroethane	98	101	10 - 150	11	50		
1,1,2,2-Tetrachloroethane	1657	1222	10 - 150	22	50	E *	E *
Tetrachloroethene	66	72	10 - 150	18	50		
Toluene	141	139	17 - 150	6	50		
trans-1,2-Dichloroethene	97	100	10 - 150	12	50		
trans-1,3-Dichloropropene	128	123	10 - 150	5	50		
1,2,3-Trichlorobenzene	0	0	10 - 150	NC	50	U *	U *
1,2,4-Trichlorobenzene	0	0	10 - 150	NC	50	U *	U *
1,1,1-Trichloroethane	103	102	10 - 150	7	50		
1,1,2-Trichloroethane	11847	8101	10 - 150	29	50	E *	E *
Trichloroethene	94	97	10 - 150	11	50		
Trichlorofluoromethane	108	107	10 - 150	7	50		
1,2,3-Trichloropropane	553	478	10 - 150	6	50	*	*
1,2,4-Trimethylbenzene	80	88	10 - 150	10	50	*	*
1,3,5-Trimethylbenzene	134	102	10 - 150	6	50	*	*

Client: Roux Associates, Inc. Job Number: 490-117346-3

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-393278

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117346-A-4-C MS	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-393278	Lab File ID:	120916-20.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.52 g
Analysis Date:	12/09/2016 1932			Final Weight/Volume:	5.0 mL
Prep Date:	12/09/2016 1655				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-A-4-D MSD	Analysis Batch:	490-393067	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-393278	Lab File ID:	120916-21.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.07 g
Analysis Date:	12/09/2016 2002			Final Weight/Volume:	5.0 mL
Prep Date:	12/09/2016 1655				5 mL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Vinyl acetate	183	164	10 - 150	3	50	*	*
Vinyl chloride	101	97	10 - 150	4	50		
Xylenes (total)	77	60	10 - 150	8	50		

Surrogate	MS % Rec		MSD % Rec		Acceptance Limits
4-Bromofluorobenzene (Surr)	569	*	195	*	70 - 130
Dibromofluoromethane (Surr)	106		101		70 - 130
1,2-Dichloroethane-d4 (Surr)	111		102		70 - 130
Toluene-d8 (Surr)	723	*	962	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-393601

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117755-B-14-D MS	Analysis Batch:	490-393855	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-393601	Lab File ID:	121316-21.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.33 g
Analysis Date:	12/13/2016 2052			Final Weight/Volume:	5.0 mL
Prep Date:	12/12/2016 1046				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117755-B-14-E MSD	Analysis Batch:	490-393855	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-393601	Lab File ID:	121316-22.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.71 g
Analysis Date:	12/13/2016 2123			Final Weight/Volume:	5.0 mL
Prep Date:	12/12/2016 1046				5 mL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	106	121	10 - 150	6	50	J	J
Benzene	97	85	21 - 150	14	50		
Bromobenzene	82	67	10 - 150	26	50	*	*
Bromochloromethane	104	101	10 - 150	9	50		
Bromodichloromethane	80	79	10 - 150	9	50		
Bromoform	52	52	10 - 150	6	50		
Bromomethane	80	75	10 - 150	13	50		
2-Butanone (MEK)	91	95	10 - 150	3	50	J	J
Carbon disulfide	154	133	10 - 150	13	50	*	
Carbon tetrachloride	102	100	10 - 150	8	50		
Chlorobenzene	69	68	10 - 150	9	50		
Chloroethane	82	104	10 - 150	17	50	J	
Chloroform	102	98	10 - 150	10	50		
Chloromethane	84	96	10 - 150	6	50		
cis-1,2-Dichloroethene	96	92	10 - 150	12	50		
cis-1,3-Dichloropropene	91	77	10 - 150	24	50		
Dibromochloromethane	88	75	10 - 150	24	50		
1,2-Dibromo-3-chloropropane	24	29	10 - 150	14	50	J *	J *
1,2-Dibromoethane	65	64	10 - 150	8	50		
1,2-Dichlorobenzene	46	39	10 - 150	22	50	*	J *
1,3-Dichlorobenzene	49	50	10 - 150	7	50	*	*
1,4-Dichlorobenzene	48	47	10 - 150	9	50	*	*
Dichlorodifluoromethane	108	102	10 - 150	12	50		
1,1-Dichloroethane	94	92	10 - 150	9	50		
1,2-Dichloroethane	86	86	24 - 138	7	50		
1,1-Dichloroethene	101	100	10 - 150	8	50		
1,2-Dichloropropane	76	76	10 - 150	8	50		
1,3-Dichloropropane	75	69	10 - 150	15	50		
2,2-Dichloropropane	111	105	10 - 150	12	50		
1,1-Dichloropropene	83	87	10 - 150	2	50		
Ethylbenzene	79	74	10 - 150	13	50		
Hexachlorobutadiene	77	72	10 - 150	13	50	J *	J *

Client: Roux Associates, Inc. Job Number: 490-117346-3

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-393601

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117755-B-14-D MS	Analysis Batch:	490-393855	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-393601	Lab File ID:	121316-21.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.33 g
Analysis Date:	12/13/2016 2052			Final Weight/Volume:	5.0 mL
Prep Date:	12/12/2016 1046				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117755-B-14-E MSD	Analysis Batch:	490-393855	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-393601	Lab File ID:	121316-22.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.71 g
Analysis Date:	12/13/2016 2123			Final Weight/Volume:	5.0 mL
Prep Date:	12/12/2016 1046				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2-Hexanone	0	0	10 - 150	NC	50	U *	U *
Isopropylbenzene	70	68	10 - 150	9	50		
Methylene bromide	73	83	10 - 150	6	50		
Methylene Chloride	-258	-391	24 - 150	7	50	*	*
4-Methyl-2-pentanone (MIBK)	78	76	10 - 150	9	50	J	J
Methyl tert butyl ether	105	104	10 - 150	8	50		
m,p-Xylene	75	66	10 - 150	16	50		J
Naphthalene	915	231	10 - 150	124	50	*	*
n-Butylbenzene	89	48	10 - 150	65	50	*	*
N-Propylbenzene	104	88	10 - 150	23	50	*	*
o-Chlorotoluene	100	88	10 - 150	20	50	*	*
o-Xylene	72	66	10 - 150	15	50		
p-Chlorotoluene	68	68	10 - 150	6	50	*	*
p-Isopropyltoluene	72	74	10 - 150	4	50	*	*
sec-Butylbenzene	98	94	10 - 150	10	50	*	*
Styrene	26	0	10 - 150	NC	50	J	U *
tert-Butylbenzene	152	141	10 - 150	14	50	*	*
1,1,1,2-Tetrachloroethane	101	92	10 - 150	16	50		
1,1,2,2-Tetrachloroethane	115	91	10 - 150	30	50	*	*
Tetrachloroethene	747	64	10 - 150	26	50	*	
Toluene	119	72	17 - 150	36	50		
trans-1,2-Dichloroethene	90	83	10 - 150	14	50		
trans-1,3-Dichloropropene	67	60	10 - 150	18	50		
1,2,3-Trichlorobenzene	17	11	10 - 150	51	50	J *	J *
1,2,4-Trichlorobenzene	18	0	10 - 150	NC	50	J *	U *
1,1,1-Trichloroethane	109	104	10 - 150	11	50		
1,1,2-Trichloroethane	98	96	10 - 150	9	50	J	J
Trichloroethene	100	101	10 - 150	6	50		
Trichlorofluoromethane	110	105	10 - 150	11	50		
1,2,3-Trichloropropane	117	100	10 - 150	22	50	*	*
1,2,4-Trimethylbenzene	91	79	10 - 150	20	50	*	*
1,3,5-Trimethylbenzene	104	98	10 - 150	13	50	*	*

Client: Roux Associates, Inc. Job Number: 490-117346-3

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-393601

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117755-B-14-D MS	Analysis Batch:	490-393855	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-393601	Lab File ID:	121316-21.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.33 g
Analysis Date:	12/13/2016 2052			Final Weight/Volume:	5.0 mL
Prep Date:	12/12/2016 1046				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117755-B-14-E MSD	Analysis Batch:	490-393855	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-393601	Lab File ID:	121316-22.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.71 g
Analysis Date:	12/13/2016 2123			Final Weight/Volume:	5.0 mL
Prep Date:	12/12/2016 1046				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Vinyl acetate	128	118	10 - 150	15	50	J	J
Vinyl chloride	90	86	10 - 150	11	50		
Xylenes (total)	80	73	10 - 150	16	50		

Surrogate	MS % Rec		MSD % Rec		Acceptance Limits
4-Bromofluorobenzene (Surr)	137	*	119	*	70 - 130
Dibromofluoromethane (Surr)	100		101		70 - 130
1,2-Dichloroethane-d4 (Surr)	90		95		70 - 130
Toluene-d8 (Surr)	130		116		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117346-3

Method Blank - Batch: 490-393855 **Method: 8260C**
Preparation: N/A

Lab Sample ID:	MB 490-393855/8	Analysis Batch:	490-393855	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121316-08.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/13/2016 1412	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	0.00840	U	0.00840	0.0500
Benzene	0.000670	U	0.000670	0.00200
Bromobenzene	0.000720	U	0.000720	0.00200
Bromochloromethane	0.000550	U	0.000550	0.00200
Bromodichloromethane	0.000550	U	0.000550	0.00200
Bromoform	0.000550	U	0.000550	0.00200
Bromomethane	0.00120	U	0.00120	0.00200
2-Butanone (MEK)	0.00510	U	0.00510	0.0500
Carbon disulfide	0.00360	U	0.00360	0.00500
Carbon tetrachloride	0.000670	U	0.000670	0.00200
Chlorobenzene	0.000670	U	0.000670	0.00200
Chloroethane	0.00190	U	0.00190	0.00500
Chloroform	0.000670	U	0.000670	0.00200
Chloromethane	0.000670	U	0.000670	0.00200
cis-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
cis-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
Dibromochloromethane	0.000340	U	0.000340	0.00200
1,2-Dibromo-3-chloropropane	0.000700	U	0.000700	0.00500
1,2-Dibromoethane	0.00100	U	0.00100	0.00200
1,2-Dichlorobenzene	0.000340	U	0.000340	0.00200
1,3-Dichlorobenzene	0.000670	U	0.000670	0.00200
1,4-Dichlorobenzene	0.000670	U	0.000670	0.00200
Dichlorodifluoromethane	0.00100	U	0.00100	0.00200
1,1-Dichloroethane	0.000670	U	0.000670	0.00200
1,2-Dichloroethane	0.000670	U	0.000670	0.00200
1,1-Dichloroethene	0.000570	U	0.000570	0.00200
1,2-Dichloropropane	0.000940	U	0.000940	0.00200
1,3-Dichloropropane	0.000940	U	0.000940	0.00200
2,2-Dichloropropane	0.000670	U	0.000670	0.00200
1,1-Dichloropropene	0.000510	U	0.000510	0.00200
Ethylbenzene	0.000670	U	0.000670	0.00200
Hexachlorobutadiene	0.00114	U	0.00114	0.00500
2-Hexanone	0.0167	U	0.0167	0.0500
Iodomethane	0.00670	U	0.00670	0.0200
Isopropylbenzene	0.000410	U	0.000410	0.00200
Methylene bromide	0.000560	U	0.000560	0.00200
Methylene Chloride	0.000860	U	0.000860	0.0100
4-Methyl-2-pentanone (MIBK)	0.00190	U	0.00190	0.0500
Methyl tert butyl ether	0.000960	U	0.000960	0.00200
m,p-Xylene	0.000560	U	0.000560	0.00400
Naphthalene	0.00170	U	0.00170	0.00500
n-Butylbenzene	0.000980	U	0.000980	0.00200
N-Propylbenzene	0.000670	U	0.000670	0.00200
o-Chlorotoluene	0.000890	U	0.000890	0.00200
o-Xylene	0.000670	U	0.000670	0.00200

Client: Roux Associates, Inc. Job Number: 490-117346-3

Method Blank - Batch: 490-393855

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-393855/8	Analysis Batch:	490-393855	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121316-08.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/13/2016 1412	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.000840	U	0.000840	0.00200
p-Isopropyltoluene	0.000670	U	0.000670	0.00200
sec-Butylbenzene	0.000670	U	0.000670	0.00200
Styrene	0.00110	U	0.00110	0.00200
tert-Butylbenzene	0.000900	U	0.000900	0.00200
1,1,1,2-Tetrachloroethane	0.000670	U	0.000670	0.00200
1,1,2,2-Tetrachloroethane	0.00100	U	0.00100	0.00200
Tetrachloroethene	0.000730	U	0.000730	0.00200
Toluene	0.000740	U	0.000740	0.00200
trans-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
trans-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
1,2,3-Trichlorobenzene	0.000380	U	0.000380	0.00200
1,2,4-Trichlorobenzene	0.000670	U	0.000670	0.00200
1,1,1-Trichloroethane	0.000920	U	0.000920	0.00200
1,1,2-Trichloroethane	0.00140	U	0.00140	0.00500
Trichloroethene	0.000960	U	0.000960	0.00200
Trichlorofluoromethane	0.00100	U	0.00100	0.00200
1,2,3-Trichloropropane	0.000550	U	0.000550	0.00200
1,2,4-Trimethylbenzene	0.00100	U	0.00100	0.00200
1,3,5-Trimethylbenzene	0.000750	U	0.000750	0.00200
Vinyl acetate	0.00440	U	0.00440	0.0200
Vinyl chloride	0.00110	U	0.00110	0.00200
Xylenes (total)	0.00123	U	0.00123	0.00600

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	91	70 - 130
Dibromofluoromethane (Surr)	97	70 - 130
1,2-Dichloroethane-d4 (Surr)	93	70 - 130
Toluene-d8 (Surr)	96	70 - 130

Method Blank TICs- Batch: 490-393855

Cas Number	Analyte	RT	Est. Result (mg	Qual
	Unknown	9.26	0.01258	J

Client: Roux Associates, Inc. Job Number: 490-117346-3

Lab Control Sample - Batch: 490-393855

Method: 8260C
Preparation: N/A

Lab Sample ID:	LCS 490-393855/4	Analysis Batch:	490-393855	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121316-05.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/13/2016 1241	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	0.250	0.2582	103	45 - 145	
Benzene	0.0500	0.05898	118	70 - 130	
Bromobenzene	0.0500	0.05008	100	67 - 130	
Bromochloromethane	0.0500	0.06052	121	70 - 133	
Bromodichloromethane	0.0500	0.05418	108	70 - 130	
Bromoform	0.0500	0.05475	109	59 - 137	
Bromomethane	0.0500	0.05440	109	32 - 150	
2-Butanone (MEK)	0.250	0.2994	120	50 - 149	
Carbon disulfide	0.0500	0.05689	114	66 - 138	
Carbon tetrachloride	0.0500	0.06456	129	70 - 131	
Chlorobenzene	0.0500	0.05903	118	70 - 130	
Chloroethane	0.0500	0.05417	108	37 - 150	
Chloroform	0.0500	0.05612	112	70 - 130	
Chloromethane	0.0500	0.04698	94	53 - 150	
cis-1,2-Dichloroethene	0.0500	0.06037	121	70 - 132	
cis-1,3-Dichloropropene	0.0500	0.05036	101	70 - 130	
Dibromochloromethane	0.0500	0.05249	105	70 - 130	
1,2-Dibromo-3-chloropropane	0.0500	0.05430	109	47 - 144	
1,2-Dibromoethane	0.0500	0.05235	105	69 - 130	
1,2-Dichlorobenzene	0.0500	0.06022	120	70 - 134	
1,3-Dichlorobenzene	0.0500	0.06160	123	69 - 137	
1,4-Dichlorobenzene	0.0500	0.06040	121	66 - 134	
Dichlorodifluoromethane	0.0500	0.06743	135	32 - 150	
1,1-Dichloroethane	0.0500	0.05513	110	70 - 130	
1,2-Dichloroethane	0.0500	0.05313	106	65 - 134	
1,1-Dichloroethene	0.0500	0.06357	127	70 - 131	
1,2-Dichloropropane	0.0500	0.05072	101	70 - 130	
1,3-Dichloropropane	0.0500	0.04810	96	70 - 130	
2,2-Dichloropropane	0.0500	0.06521	130	57 - 150	
1,1-Dichloropropene	0.0500	0.05809	116	70 - 130	
Ethylbenzene	0.0500	0.05739	115	70 - 130	
Hexachlorobutadiene	0.0500	0.05566	111	64 - 137	
2-Hexanone	0.250	0.2634	105	47 - 148	
Isopropylbenzene	0.0500	0.05924	118	70 - 130	
Methylene bromide	0.0500	0.05276	106	70 - 130	
Methylene Chloride	0.0500	0.05606	112	69 - 130	
4-Methyl-2-pentanone (MIBK)	0.250	0.2461	98	48 - 150	
Methyl tert butyl ether	0.0500	0.05503	110	54 - 145	
m,p-Xylene	0.0500	0.05661	113	70 - 130	
Naphthalene	0.0500	0.05190	104	55 - 149	
n-Butylbenzene	0.0500	0.05704	114	57 - 150	

Client: Roux Associates, Inc. Job Number: 490-117346-3

Lab Control Sample - Batch: 490-393855

Method: 8260C
Preparation: N/A

Lab Sample ID:	LCS 490-393855/4	Analysis Batch:	490-393855	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121316-05.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/13/2016 1241	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
N-Propylbenzene	0.0500	0.05652	113	62 - 150	
o-Chlorotoluene	0.0500	0.05085	102	70 - 132	
o-Xylene	0.0500	0.05678	114	70 - 130	
p-Chlorotoluene	0.0500	0.05656	113	67 - 135	
p-Isopropyltoluene	0.0500	0.05850	117	66 - 147	
sec-Butylbenzene	0.0500	0.05821	116	68 - 147	
Styrene	0.0500	0.05737	115	70 - 131	
tert-Butylbenzene	0.0500	0.05554	111	70 - 138	
1,1,1,2-Tetrachloroethane	0.0500	0.05789	116	70 - 130	
1,1,2,2-Tetrachloroethane	0.0500	0.04778	96	61 - 134	
Tetrachloroethene	0.0500	0.06531	131	70 - 130	*
Toluene	0.0500	0.05639	113	70 - 130	
trans-1,2-Dichloroethene	0.0500	0.05601	112	70 - 130	
trans-1,3-Dichloropropene	0.0500	0.04970	99	67 - 130	
1,2,3-Trichlorobenzene	0.0500	0.05695	114	57 - 146	
1,2,4-Trichlorobenzene	0.0500	0.05300	106	47 - 150	
1,1,1-Trichloroethane	0.0500	0.06269	125	70 - 130	
1,1,2-Trichloroethane	0.0500	0.04689	94	70 - 130	
Trichloroethene	0.0500	0.06354	127	70 - 130	
Trichlorofluoromethane	0.0500	0.06318	126	53 - 150	
1,2,3-Trichloropropane	0.0500	0.05018	100	60 - 139	
1,2,4-Trimethylbenzene	0.0500	0.05738	115	70 - 140	
1,3,5-Trimethylbenzene	0.0500	0.06017	120	69 - 141	
Vinyl acetate	0.100	0.1473	147	10 - 150	
Vinyl chloride	0.0500	0.05567	111	63 - 150	
Xylenes (total)	0.100	0.1134	113	70 - 130	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	88	70 - 130
Dibromofluoromethane (Surr)	100	70 - 130
1,2-Dichloroethane-d4 (Surr)	95	70 - 130
Toluene-d8 (Surr)	95	70 - 130

Method Blank - Batch: 490-392789

Method: 8270D
Preparation: 3550C

Lab Sample ID:	MB 490-392789/1-A	Analysis Batch:	490-393758	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	121216-032.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/13/2016 0330	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	0.0320	U	0.0320	0.0670
Acenaphthylene	0.0290	U	0.0290	0.0670
Aniline	0.253	U	0.253	0.670
Anthracene	0.0290	U	0.0290	0.0670
Benzidine	0.204	U	0.204	0.333
Benzo(a)anthracene	0.0300	U	0.0300	0.0670
Benzo(a)pyrene	0.0270	U	0.0270	0.0670
Benzo(b)fluoranthene	0.0280	U	0.0280	0.0670
Benzo(g,h,i)perylene	0.0330	U	0.0330	0.0670
Benzoic acid	0.0600	U	0.0600	0.333
Benzo(k)fluoranthene	0.0270	U	0.0270	0.0670
Benzyl alcohol	0.194	U	0.194	0.333
Bis(2-chloroethoxy)methane	0.200	U	0.200	0.333
Bis(2-chloroethyl)ether	0.213	U	0.213	0.333
bis (2-chloroisopropyl) ether	0.198	U	0.198	0.333
Bis(2-ethylhexyl)phthalate	0.207	U	0.207	0.333
4-Bromophenyl phenyl ether	0.205	U	0.205	0.333
Butyl benzyl phthalate	0.215	U	0.215	0.333
Carbazole	0.207	U	0.207	0.333
4-Chloroaniline	0.227	U	0.227	0.333
4-Chloro-3-methylphenol	0.168	U	0.168	0.333
2-Chloronaphthalene	0.209	U	0.209	0.333
2-Chlorophenol	0.191	U	0.191	0.333
4-Chlorophenyl phenyl ether	0.201	U	0.201	0.333
Chrysene	0.0370	U	0.0370	0.0670
Dibenzo(a,h)anthracene	0.0320	U	0.0320	0.0670
Dibenzofuran	0.210	U	0.210	0.333
1,2-Dichlorobenzene	0.190	U	0.190	0.333
1,3-Dichlorobenzene	0.190	U	0.190	0.333
1,4-Dichlorobenzene	0.196	U	0.196	0.333
3,3'-Dichlorobenzidine	0.204	U	0.204	0.670
2,4-Dichlorophenol	0.175	U	0.175	0.333
Diethyl phthalate	0.212	U	0.212	0.333
2,4-Dimethylphenol	0.335	U	0.335	0.670
Dimethyl phthalate	0.207	U	0.207	0.333
Di-n-butyl phthalate	0.211	U	0.211	0.333
4,6-Dinitro-o-cresol	0.229	U	0.229	0.333
2,4-Dinitrophenol	0.251	U	0.251	0.333
2,4-Dinitrotoluene	0.208	U	0.208	0.333
2,6-Dinitrotoluene	0.223	U	0.223	0.333
Di-n-octyl phthalate	0.178	U	0.178	0.333
1,2-Diphenylhydrazine (as Azobenzene)	0.234	U	0.234	0.333
Fluoranthene	0.0340	U	0.0340	0.0670
Fluorene	0.0290	U	0.0290	0.0670
Hexachlorobenzene	0.250	U	0.250	0.333

Client: Roux Associates, Inc. Job Number: 490-117346-3

Method Blank - Batch: 490-392789

Method: 8270D
Preparation: 3550C

Lab Sample ID:	MB 490-392789/1-A	Analysis Batch:	490-393758	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	121216-032.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/13/2016 0330	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Hexachlorobutadiene	0.167	U	0.167	0.333
Hexachlorocyclopentadiene	0.150	U	0.150	0.333
Hexachloroethane	0.181	U	0.181	0.333
Ideno(1,2,3-cd)pyrene	0.0290	U	0.0290	0.0670
Isophorone	0.188	U	0.188	0.333
1-Methylnaphthalene	0.0280	U	0.0280	0.0670
2-Methylnaphthalene	0.0260	U	0.0260	0.0670
Naphthalene	0.0290	U	0.0290	0.0670
2-Nitroaniline	0.207	U	0.207	0.333
3-Nitroaniline	0.230	U	0.230	0.670
4-Nitroaniline	0.238	U	0.238	0.670
Nitrobenzene	0.201	U	0.201	0.333
2-Nitrophenol	0.243	U	0.243	0.333
4-Nitrophenol	0.382	U	0.382	0.670
N-Nitrosodimethylamine	0.0200	U	0.0200	0.333
N-Nitrosodi-n-propylamine	0.194	U	0.194	0.333
N-Nitrosodiphenylamine	0.0530	U	0.0530	0.333
Pentachlorophenol	0.266	U	0.266	0.670
Phenanthrene	0.0340	U	0.0340	0.0670
Phenol	0.203	U	0.203	0.333
Pyrene	0.0340	U	0.0340	0.0670
Pyridine	0.199	U	0.199	0.670
1,2,4-Trichlorobenzene	0.181	U	0.181	0.333
2,4,5-Trichlorophenol	0.218	U	0.218	0.333
2,4,6-Trichlorophenol	0.192	U	0.192	0.333

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	81	29 - 120
2-Fluorophenol (Surr)	60	10 - 120
Nitrobenzene-d5 (Surr)	82	27 - 120
Phenol-d5 (Surr)	66	10 - 120
Terphenyl-d14 (Surr)	97	13 - 120
2,4,6-Tribromophenol (Surr)	53	10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-3

Lab Control Sample - Batch: 490-392789

Method: 8270D
Preparation: 3550C

Lab Sample ID:	LCS 490-392789/2-A	Analysis Batch:	490-393758	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	121216-033.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/13/2016 0349	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	1.67	1.149	69	36 - 120	
Acenaphthylene	1.67	1.105	66	38 - 120	
Aniline	1.67	0.8249	49	10 - 150	
Anthracene	1.67	1.365	82	46 - 124	
Benzidine	1.67	0.5201	31	10 - 150	
Benzo(a)anthracene	1.67	1.381	83	45 - 120	
Benzo(a)pyrene	1.67	1.340	80	45 - 120	
Benzo(b)fluoranthene	1.67	1.388	83	42 - 120	
Benzo(g,h,i)perylene	1.67	1.431	86	38 - 120	
Benzoic acid	1.67	0.4774	29	10 - 150	
Benzo(k)fluoranthene	1.67	1.442	87	42 - 120	
Benzyl alcohol	1.67	0.8984	54	43 - 131	
Bis(2-chloroethoxy)methane	1.67	0.8746	52	32 - 120	
Bis(2-chloroethyl)ether	1.67	0.9055	54	31 - 120	
bis (2-chloroisopropyl) ether	1.67	0.7364	44	32 - 120	
Bis(2-ethylhexyl)phthalate	1.67	1.401	84	43 - 120	
4-Bromophenyl phenyl ether	1.67	1.403	84	40 - 120	
Butyl benzyl phthalate	1.67	1.421	85	43 - 133	
Carbazole	1.67	1.326	80	44 - 120	
4-Chloroaniline	1.67	1.040	62	35 - 120	
4-Chloro-3-methylphenol	1.67	1.210	73	38 - 120	
2-Chloronaphthalene	1.67	1.021	61	34 - 120	
2-Chlorophenol	1.67	0.8468	51	32 - 120	
4-Chlorophenyl phenyl ether	1.67	1.306	78	42 - 120	
Chrysene	1.67	1.404	84	43 - 120	
Dibenzo(a,h)anthracene	1.67	1.408	84	32 - 128	
Dibenzofuran	1.67	1.181	71	41 - 120	
1,2-Dichlorobenzene	1.67	0.8391	50	33 - 120	
1,3-Dichlorobenzene	1.67	0.8202	49	32 - 120	
1,4-Dichlorobenzene	1.67	0.8170	49	32 - 120	
3,3'-Dichlorobenzidine	1.67	1.183	71	39 - 120	
2,4-Dichlorophenol	1.67	0.9686	58	32 - 120	
Diethyl phthalate	1.67	1.378	83	41 - 122	
2,4-Dimethylphenol	1.67	0.9787	59	32 - 120	
Dimethyl phthalate	1.67	1.271	76	55 - 120	
Di-n-butyl phthalate	1.67	1.409	85	46 - 127	
4,6-Dinitro-o-cresol	3.33	0.7182	22	27 - 134	*
2,4-Dinitrophenol	3.33	0.3829	11	10 - 142	
2,4-Dinitrotoluene	1.67	1.328	80	43 - 120	
2,6-Dinitrotoluene	1.67	1.282	77	43 - 120	
Di-n-octyl phthalate	1.67	1.440	86	40 - 130	

Client: Roux Associates, Inc. Job Number: 490-117346-3

Lab Control Sample - Batch: 490-392789

Method: 8270D
Preparation: 3550C

Lab Sample ID:	LCS 490-392789/2-A	Analysis Batch:	490-393758	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	121216-033.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/13/2016 0349	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,2-Diphenylhydrazine (as Azobenzene)	1.67	1.300	78	10 - 150	
Fluoranthene	1.67	1.333	80	46 - 120	
Fluorene	1.67	1.255	75	42 - 120	
Hexachlorobenzene	1.67	1.512	91	44 - 120	
Hexachlorobutadiene	1.67	0.9341	56	31 - 120	
Hexachlorocyclopentadiene	1.67	0.150	6	24 - 120	U *
Hexachloroethane	1.67	0.7515	45	33 - 120	
Ideno(1,2,3-cd)pyrene	1.67	1.359	82	41 - 121	
Isophorone	1.67	0.9407	56	33 - 120	
1-Methylnaphthalene	1.67	0.9686	58	32 - 120	
2-Methylnaphthalene	1.67	0.9580	57	28 - 120	
Naphthalene	1.67	0.8775	53	32 - 120	
2-Nitroaniline	1.67	1.287	77	40 - 120	
3-Nitroaniline	1.67	1.271	76	42 - 120	
4-Nitroaniline	1.67	1.269	76	43 - 120	
Nitrobenzene	1.67	0.8884	53	26 - 120	
2-Nitrophenol	1.67	0.8692	52	29 - 120	
4-Nitrophenol	3.33	4.930	148	32 - 136	*
N-Nitrosodimethylamine	1.67	0.7043	42	10 - 150	
N-Nitrosodi-n-propylamine	1.67	0.8534	51	35 - 120	
N-Nitrosodiphenylamine	1.42	1.368	97	52 - 140	
Pentachlorophenol	3.33	2.292	69	44 - 134	
Phenanthrene	1.67	1.376	83	45 - 120	
Phenol	1.67	0.8362	50	30 - 120	
Pyrene	1.67	1.457	87	43 - 120	
Pyridine	1.67	0.7751	47	20 - 120	
1,2,4-Trichlorobenzene	1.67	0.8843	53	29 - 120	
2,4,5-Trichlorophenol	1.67	1.262	76	39 - 120	
2,4,6-Trichlorophenol	1.67	1.150	69	39 - 120	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	58	29 - 120
2-Fluorophenol (Surr)	46	10 - 120
Nitrobenzene-d5 (Surr)	51	27 - 120
Phenol-d5 (Surr)	50	10 - 120
Terphenyl-d14 (Surr)	88	13 - 120
2,4,6-Tribromophenol (Surr)	84	10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-3

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392789

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-117346-25	Analysis Batch:	490-394282	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	120616-22.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.68 g
Analysis Date:	12/14/2016 1959			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-25	Analysis Batch:	490-394282	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	120616-23.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.22 g
Analysis Date:	12/14/2016 2017			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	46	56	19 - 120	20	50		
Acenaphthylene	46	55	25 - 120	20	50		
Aniline	33	41	10 - 200	22	50	J	
Anthracene	53	66	28 - 125	23	49		
Benzidine	18	0	5 - 200	NC	50	J	U *
Benzo(a)anthracene	55	69	23 - 120	25	50		
Benzo(a)pyrene	52	67	15 - 128	26	50		
Benzo(b)fluoranthene	59	65	12 - 133	10	50		
Benzo(g,h,i)perylene	57	80	22 - 120	34	50		
Benzoic acid	41	48	10 - 200	17	50		
Benzo(k)fluoranthene	51	75	28 - 120	40	45		
Benzyl alcohol	36	44	10 - 200	22	50		
Bis(2-chloroethoxy)methane	34	42	24 - 120	22	50		
Bis(2-chloroethyl)ether	32	39	22 - 120	22	50		
bis (2-chloroisopropyl) ether	30	37	20 - 120	25	50		
Bis(2-ethylhexyl)phthalate	52	66	26 - 120	25	50		
4-Bromophenyl phenyl ether	53	66	31 - 120	23	37		
Butyl benzyl phthalate	53	69	24 - 133	28	50		
Carbazole	53	65	25 - 123	22	46		
4-Chloroaniline	41	49	26 - 120	19	50		
4-Chloro-3-methylphenol	45	53	21 - 120	19	49		
2-Chloronaphthalene	42	50	24 - 120	19	50		
2-Chlorophenol	35	42	25 - 120	21	50		
4-Chlorophenyl phenyl ether	51	0	26 - 120	NC	50		U *
Chrysene	54	66	20 - 120	22	49		
Dibenzo(a,h)anthracene	56	77	12 - 128	33	50		
Dibenzofuran	47	57	21 - 120	20	50		
1,2-Dichlorobenzene	35	43	10 - 120	23	50		
1,3-Dichlorobenzene	34	41	10 - 120	21	50		
1,4-Dichlorobenzene	34	43	10 - 120	24	50		
3,3'-Dichlorobenzidine	52	57	10 - 120	12	50		
2,4-Dichlorophenol	41	50	17 - 120	20	50		

Client: Roux Associates, Inc. Job Number: 490-117346-3

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392789

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-117346-25	Analysis Batch:	490-394282	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	120616-22.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.68 g
Analysis Date:	12/14/2016 1959			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-25	Analysis Batch:	490-394282	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	120616-23.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.22 g
Analysis Date:	12/14/2016 2017			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Diethyl phthalate	48	62	29 - 122	25	45		
2,4-Dimethylphenol	35	42	17 - 120	21	50	J	
Dimethyl phthalate	48	60	30 - 120	24	46		
Di-n-butyl phthalate	51	64	29 - 126	23	49		
4,6-Dinitro-o-cresol	0	0	10 - 134	NC	50	U *	U *
2,4-Dinitrophenol	0	0	10 - 150	NC	50	U *	U *
2,4-Dinitrotoluene	46	62	24 - 121	31	50		
2,6-Dinitrotoluene	46	59	24 - 120	27	50		
Di-n-octyl phthalate	54	71	27 - 130	28	50		
1,2-Diphenylhydrazine (as Azobenzene)	44	55	10 - 200	23	50		
Fluoranthene	53	66	10 - 143	24	50		
Fluorene	51	62	20 - 120	20	50		
Hexachlorobenzene	56	69	25 - 120	23	50		
Hexachlorobutadiene	36	45	10 - 120	22	50		
Hexachlorocyclopentadiene	18	23	10 - 120	27	50	J	
Hexachloroethane	31	39	10 - 120	24	50		
Ideno(1,2,3-cd)pyrene	54	75	22 - 121	34	50		
Isophorone	35	42	24 - 120	20	50		
1-Methylnaphthalene	39	48	10 - 120	21	50		
2-Methylnaphthalene	39	47	13 - 120	20	50		
Naphthalene	36	45	10 - 120	25	50		
2-Nitroaniline	41	51	31 - 120	24	50		
3-Nitroaniline	54	66	31 - 120	21	49		
4-Nitroaniline	49	61	28 - 120	24	49		
Nitrobenzene	32	41	19 - 120	25	50		
2-Nitrophenol	23	33	23 - 120	38	50		
4-Nitrophenol	45	57	16 - 139	25	45		
N-Nitrosodimethylamine	27	32	10 - 200	18	50		
N-Nitrosodi-n-propylamine	32	40	24 - 120	22	50		
N-Nitrosodiphenylamine	59	76	26 - 150	26	50		
Pentachlorophenol	53	66	19 - 145	22	50		
Phenanthrene	52	64	21 - 122	22	50		

Client: Roux Associates, Inc. Job Number: 490-117346-3

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392789

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-117346-25	Analysis Batch:	490-394282	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	120616-22.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.68 g
Analysis Date:	12/14/2016 1959			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-25	Analysis Batch:	490-394282	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-392789	Lab File ID:	120616-23.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.22 g
Analysis Date:	12/14/2016 2017			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1137			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Phenol	36	43	15 - 120	20	50		
Pyrene	57	79	20 - 123	33	50		
Pyridine	22	27	10 - 200	24	50	J	J
1,2,4-Trichlorobenzene	36	45	14 - 120	23	50		
2,4,5-Trichlorophenol	55	65	27 - 120	19	50		
2,4,6-Trichlorophenol	52	60	24 - 122	17	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	44	51	29 - 120
2-Fluorophenol (Surr)	31	39	10 - 120
Nitrobenzene-d5 (Surr)	33	42	27 - 120
Phenol-d5 (Surr)	37	44	10 - 120
Terphenyl-d14 (Surr)	61	77	13 - 120
2,4,6-Tribromophenol (Surr)	63	76	10 - 120

Method Blank - Batch: 490-392804

Method: 8270D
Preparation: 3550C

Lab Sample ID:	MB 490-392804/1-A	Analysis Batch:	490-393095	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392804	Lab File ID:	120916-008.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/09/2016 1216	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1211			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	0.0320	U	0.0320	0.0670
Acenaphthylene	0.0290	U	0.0290	0.0670
Aniline	0.253	U	0.253	0.670
Anthracene	0.0290	U	0.0290	0.0670
Benzidine	0.204	U	0.204	0.333
Benzo(a)anthracene	0.0300	U	0.0300	0.0670
Benzo(a)pyrene	0.0270	U	0.0270	0.0670
Benzo(b)fluoranthene	0.0280	U	0.0280	0.0670
Benzo(g,h,i)perylene	0.0330	U	0.0330	0.0670
Benzoic acid	0.0600	U	0.0600	0.333
Benzo(k)fluoranthene	0.0270	U	0.0270	0.0670
Benzyl alcohol	0.194	U	0.194	0.333
Bis(2-chloroethoxy)methane	0.200	U	0.200	0.333
Bis(2-chloroethyl)ether	0.213	U	0.213	0.333
bis (2-chloroisopropyl) ether	0.198	U	0.198	0.333
Bis(2-ethylhexyl)phthalate	0.207	U	0.207	0.333
4-Bromophenyl phenyl ether	0.205	U	0.205	0.333
Butyl benzyl phthalate	0.215	U	0.215	0.333
Carbazole	0.207	U	0.207	0.333
4-Chloroaniline	0.227	U	0.227	0.333
4-Chloro-3-methylphenol	0.168	U	0.168	0.333
2-Chloronaphthalene	0.209	U	0.209	0.333
2-Chlorophenol	0.191	U	0.191	0.333
4-Chlorophenyl phenyl ether	0.201	U	0.201	0.333
Chrysene	0.0370	U	0.0370	0.0670
Dibenzo(a,h)anthracene	0.0320	U	0.0320	0.0670
Dibenzofuran	0.210	U	0.210	0.333
1,2-Dichlorobenzene	0.190	U	0.190	0.333
1,3-Dichlorobenzene	0.190	U	0.190	0.333
1,4-Dichlorobenzene	0.196	U	0.196	0.333
3,3'-Dichlorobenzidine	0.204	U	0.204	0.670
2,4-Dichlorophenol	0.175	U	0.175	0.333
Diethyl phthalate	0.212	U	0.212	0.333
2,4-Dimethylphenol	0.335	U	0.335	0.670
Dimethyl phthalate	0.207	U	0.207	0.333
Di-n-butyl phthalate	0.211	U	0.211	0.333
4,6-Dinitro-o-cresol	0.229	U	0.229	0.333
2,4-Dinitrophenol	0.251	U	0.251	0.333
2,4-Dinitrotoluene	0.208	U	0.208	0.333
2,6-Dinitrotoluene	0.223	U	0.223	0.333
Di-n-octyl phthalate	0.178	U	0.178	0.333
1,2-Diphenylhydrazine (as Azobenzene)	0.234	U	0.234	0.333
Fluoranthene	0.0340	U	0.0340	0.0670
Fluorene	0.0290	U	0.0290	0.0670
Hexachlorobenzene	0.250	U	0.250	0.333

Client: Roux Associates, Inc. Job Number: 490-117346-3

Method Blank - Batch: 490-392804

Method: 8270D
Preparation: 3550C

Lab Sample ID:	MB 490-392804/1-A	Analysis Batch:	490-393095	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392804	Lab File ID:	120916-008.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/09/2016 1216	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1211			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Hexachlorobutadiene	0.167	U	0.167	0.333
Hexachlorocyclopentadiene	0.150	U	0.150	0.333
Hexachloroethane	0.181	U	0.181	0.333
Ideno(1,2,3-cd)pyrene	0.0290	U	0.0290	0.0670
Isophorone	0.188	U	0.188	0.333
1-Methylnaphthalene	0.0280	U	0.0280	0.0670
2-Methylnaphthalene	0.0260	U	0.0260	0.0670
Naphthalene	0.0290	U	0.0290	0.0670
2-Nitroaniline	0.207	U	0.207	0.333
3-Nitroaniline	0.230	U	0.230	0.670
4-Nitroaniline	0.238	U	0.238	0.670
Nitrobenzene	0.201	U	0.201	0.333
2-Nitrophenol	0.243	U	0.243	0.333
4-Nitrophenol	0.382	U	0.382	0.670
N-Nitrosodimethylamine	0.0200	U	0.0200	0.333
N-Nitrosodi-n-propylamine	0.194	U	0.194	0.333
N-Nitrosodiphenylamine	0.0530	U	0.0530	0.333
Pentachlorophenol	0.266	U	0.266	0.670
Phenanthrene	0.0340	U	0.0340	0.0670
Phenol	0.203	U	0.203	0.333
Pyrene	0.0340	U	0.0340	0.0670
Pyridine	0.199	U	0.199	0.670
1,2,4-Trichlorobenzene	0.181	U	0.181	0.333
2,4,5-Trichlorophenol	0.218	U	0.218	0.333
2,4,6-Trichlorophenol	0.192	U	0.192	0.333

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	74	29 - 120
2-Fluorophenol (Surr)	74	10 - 120
Nitrobenzene-d5 (Surr)	78	27 - 120
Phenol-d5 (Surr)	74	10 - 120
Terphenyl-d14 (Surr)	84	13 - 120
2,4,6-Tribromophenol (Surr)	76	10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-3

Lab Control Sample - Batch: 490-392804

Method: 8270D
Preparation: 3550C

Lab Sample ID:	LCS 490-392804/2-A	Analysis Batch:	490-393095	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392804	Lab File ID:	120916-009.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/09/2016 1234	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1211			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	1.67	1.332	80	36 - 120	
Acenaphthylene	1.67	1.249	75	38 - 120	
Aniline	1.67	1.138	68	10 - 150	
Anthracene	1.67	1.341	80	46 - 124	
Benzidine	1.67	0.3955	24	10 - 150	
Benzo(a)anthracene	1.67	1.360	82	45 - 120	
Benzo(a)pyrene	1.67	1.333	80	45 - 120	
Benzo(b)fluoranthene	1.67	1.378	83	42 - 120	
Benzo(g,h,i)perylene	1.67	1.428	86	38 - 120	
Benzoic acid	1.67	0.4887	29	10 - 150	
Benzo(k)fluoranthene	1.67	1.416	85	42 - 120	
Benzyl alcohol	1.67	1.176	71	43 - 131	
Bis(2-chloroethoxy)methane	1.67	1.178	71	32 - 120	
Bis(2-chloroethyl)ether	1.67	1.276	77	31 - 120	
bis (2-chloroisopropyl) ether	1.67	0.9601	58	32 - 120	
Bis(2-ethylhexyl)phthalate	1.67	1.320	79	43 - 120	
4-Bromophenyl phenyl ether	1.67	1.328	80	40 - 120	
Butyl benzyl phthalate	1.67	1.310	79	43 - 133	
Carbazole	1.67	1.346	81	44 - 120	
4-Chloroaniline	1.67	1.280	77	35 - 120	
4-Chloro-3-methylphenol	1.67	1.307	78	38 - 120	
2-Chloronaphthalene	1.67	1.255	75	34 - 120	
2-Chlorophenol	1.67	1.117	67	32 - 120	
4-Chlorophenyl phenyl ether	1.67	1.371	82	42 - 120	
Chrysene	1.67	1.411	85	43 - 120	
Dibenzo(a,h)anthracene	1.67	1.399	84	32 - 128	
Dibenzofuran	1.67	1.292	77	41 - 120	
1,2-Dichlorobenzene	1.67	1.115	67	33 - 120	
1,3-Dichlorobenzene	1.67	1.069	64	32 - 120	
1,4-Dichlorobenzene	1.67	1.066	64	32 - 120	
3,3'-Dichlorobenzidine	1.67	1.089	65	39 - 120	
2,4-Dichlorophenol	1.67	1.223	73	32 - 120	
Diethyl phthalate	1.67	1.385	83	41 - 122	
2,4-Dimethylphenol	1.67	1.209	73	32 - 120	
Dimethyl phthalate	1.67	1.341	80	55 - 120	
Di-n-butyl phthalate	1.67	1.359	82	46 - 127	
4,6-Dinitro-o-cresol	3.33	2.449	73	27 - 134	
2,4-Dinitrophenol	3.33	1.996	60	10 - 142	
2,4-Dinitrotoluene	1.67	1.423	85	43 - 120	
2,6-Dinitrotoluene	1.67	1.366	82	43 - 120	
Di-n-octyl phthalate	1.67	1.367	82	40 - 130	

Client: Roux Associates, Inc. Job Number: 490-117346-3

Lab Control Sample - Batch: 490-392804

Method: 8270D
Preparation: 3550C

Lab Sample ID:	LCS 490-392804/2-A	Analysis Batch:	490-393095	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392804	Lab File ID:	120916-009.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/09/2016 1234	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1211			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,2-Diphenylhydrazine (as Azobenzene)	1.67	1.334	80	10 - 150	
Fluoranthene	1.67	1.379	83	46 - 120	
Fluorene	1.67	1.320	79	42 - 120	
Hexachlorobenzene	1.67	1.405	84	44 - 120	
Hexachlorobutadiene	1.67	1.170	70	31 - 120	
Hexachlorocyclopentadiene	1.67	0.9145	55	24 - 120	
Hexachloroethane	1.67	1.120	67	33 - 120	
Ideno(1,2,3-cd)pyrene	1.67	1.341	80	41 - 121	
Isophorone	1.67	1.206	72	33 - 120	
1-Methylnaphthalene	1.67	1.195	72	32 - 120	
2-Methylnaphthalene	1.67	1.174	70	28 - 120	
Naphthalene	1.67	1.115	67	32 - 120	
2-Nitroaniline	1.67	1.354	81	40 - 120	
3-Nitroaniline	1.67	1.346	81	42 - 120	
4-Nitroaniline	1.67	1.304	78	43 - 120	
Nitrobenzene	1.67	1.160	70	26 - 120	
2-Nitrophenol	1.67	1.181	71	29 - 120	
4-Nitrophenol	3.33	2.484	75	32 - 136	
N-Nitrosodimethylamine	1.67	0.9719	58	10 - 150	
N-Nitrosodi-n-propylamine	1.67	1.135	68	35 - 120	
N-Nitrosodiphenylamine	1.42	1.321	93	52 - 140	
Pentachlorophenol	3.33	1.915	57	44 - 134	
Phenanthrene	1.67	1.348	81	45 - 120	
Phenol	1.67	1.220	73	30 - 120	
Pyrene	1.67	1.357	81	43 - 120	
Pyridine	1.67	1.135	68	20 - 120	
1,2,4-Trichlorobenzene	1.67	1.120	67	29 - 120	
2,4,5-Trichlorophenol	1.67	1.369	82	39 - 120	
2,4,6-Trichlorophenol	1.67	1.309	79	39 - 120	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	74	29 - 120
2-Fluorophenol (Surr)	65	10 - 120
Nitrobenzene-d5 (Surr)	70	27 - 120
Phenol-d5 (Surr)	71	10 - 120
Terphenyl-d14 (Surr)	84	13 - 120
2,4,6-Tribromophenol (Surr)	82	10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-3

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392804

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-117346-29	Analysis Batch:	490-393095	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392804	Lab File ID:	120916-025.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.32 g
Analysis Date:	12/09/2016 1732			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1211			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-29	Analysis Batch:	490-393095	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392804	Lab File ID:	120916-026.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.77 g
Analysis Date:	12/09/2016 1751			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1211			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	72	71	19 - 120	2	50		
Acenaphthylene	68	68	25 - 120	2	50		
Aniline	53	59	10 - 200	10	50		
Anthracene	74	72	28 - 125	5	49		
Benzidine	0	0	5 - 200	NC	50	U *	U *
Benzo(a)anthracene	77	71	23 - 120	10	50		
Benzo(a)pyrene	73	70	15 - 128	6	50		
Benzo(b)fluoranthene	80	68	12 - 133	17	50		
Benzo(g,h,i)perylene	78	77	22 - 120	4	50		
Benzoic acid	40	47	10 - 200	16	50		
Benzo(k)fluoranthene	76	73	28 - 120	6	45		
Benzyl alcohol	61	64	10 - 200	3	50		
Bis(2-chloroethoxy)methane	55	62	24 - 120	11	50		
Bis(2-chloroethyl)ether	62	70	22 - 120	10	50		
bis (2-chloroisopropyl) ether	51	57	20 - 120	9	50		
Bis(2-ethylhexyl)phthalate	75	66	26 - 120	15	50		
4-Bromophenyl phenyl ether	79	73	31 - 120	10	37		
Butyl benzyl phthalate	71	77	24 - 133	6	50		
Carbazole	68	69	25 - 123	0	46		
4-Chloroaniline	62	64	26 - 120	3	50		
4-Chloro-3-methylphenol	73	73	21 - 120	2	49		
2-Chloronaphthalene	68	69	24 - 120	1	50		
2-Chlorophenol	57	64	25 - 120	10	50		
4-Chlorophenyl phenyl ether	76	73	26 - 120	5	50		
Chrysene	77	73	20 - 120	7	49		
Dibenzo(a,h)anthracene	75	75	12 - 128	2	50		
Dibenzofuran	71	70	21 - 120	3	50		
1,2-Dichlorobenzene	56	62	10 - 120	10	50		
1,3-Dichlorobenzene	54	60	10 - 120	9	50		
1,4-Dichlorobenzene	55	62	10 - 120	11	50		
3,3'-Dichlorobenzidine	52	47	10 - 120	12	50		
2,4-Dichlorophenol	64	70	17 - 120	6	50		

Client: Roux Associates, Inc. Job Number: 490-117346-3

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392804

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-117346-29	Analysis Batch:	490-393095	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392804	Lab File ID:	120916-025.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.32 g
Analysis Date:	12/09/2016 1732			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1211			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-29	Analysis Batch:	490-393095	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392804	Lab File ID:	120916-026.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.77 g
Analysis Date:	12/09/2016 1751			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1211			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Diethyl phthalate	72	70	29 - 122	5	45		
2,4-Dimethylphenol	63	65	17 - 120	2	50		
Dimethyl phthalate	68	67	30 - 120	3	46		
Di-n-butyl phthalate	73	71	29 - 126	4	49		
4,6-Dinitro-o-cresol	27	18	10 - 134	39	50		
2,4-Dinitrophenol	19	14	10 - 150	31	50		
2,4-Dinitrotoluene	73	70	24 - 121	5	50		
2,6-Dinitrotoluene	69	68	24 - 120	2	50		
Di-n-octyl phthalate	79	68	27 - 130	17	50		
1,2-Diphenylhydrazine (as Azobenzene)	73	71	10 - 200	4	50		
Fluoranthene	73	66	10 - 143	12	50		
Fluorene	72	70	20 - 120	4	50		
Hexachlorobenzene	79	78	25 - 120	3	50		
Hexachlorobutadiene	62	67	10 - 120	8	50		
Hexachlorocyclopentadiene	33	32	10 - 120	6	50		
Hexachloroethane	56	62	10 - 120	9	50		
Ideno(1,2,3-cd)pyrene	73	72	22 - 121	4	50		
Isophorone	56	61	24 - 120	7	50		
1-Methylnaphthalene	63	67	10 - 120	5	50		
2-Methylnaphthalene	62	68	13 - 120	7	50		
Naphthalene	57	64	10 - 120	9	50		
2-Nitroaniline	70	70	31 - 120	1	50		
3-Nitroaniline	68	66	31 - 120	5	49		
4-Nitroaniline	66	61	28 - 120	9	49		
Nitrobenzene	57	62	19 - 120	8	50		
2-Nitrophenol	56	60	23 - 120	6	50		
4-Nitrophenol	68	66	16 - 139	4	45		
N-Nitrosodimethylamine	41	51	10 - 200	21	50		
N-Nitrosodi-n-propylamine	53	59	24 - 120	11	50		
N-Nitrosodiphenylamine	89	85	26 - 150	6	50		
Pentachlorophenol	74	70	19 - 145	6	50		
Phenanthrene	71	72	21 - 122	0	50		

Client: Roux Associates, Inc. Job Number: 490-117346-3

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392804

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-117346-29	Analysis Batch:	490-393095	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392804	Lab File ID:	120916-025.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.32 g
Analysis Date:	12/09/2016 1732			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1211			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-29	Analysis Batch:	490-393095	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392804	Lab File ID:	120916-026.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.77 g
Analysis Date:	12/09/2016 1751			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1211			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Phenol	60	67	15 - 120	10	50		
Pyrene	72	75	20 - 123	2	50		
Pyridine	57	61	10 - 200	6	50		
1,2,4-Trichlorobenzene	58	65	14 - 120	10	50		
2,4,5-Trichlorophenol	82	81	27 - 120	3	50		
2,4,6-Trichlorophenol	74	73	24 - 122	3	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	67	69	29 - 120
2-Fluorophenol (Surr)	56	62	10 - 120
Nitrobenzene-d5 (Surr)	58	65	27 - 120
Phenol-d5 (Surr)	63	67	10 - 120
Terphenyl-d14 (Surr)	78	81	13 - 120
2,4,6-Tribromophenol (Surr)	85	80	10 - 120

Client: Roux Associates, Inc. Job Number: 490-117346-3

Method Blank - Batch: 490-392479

Method: 6010C
Preparation: 3051A

Lab Sample ID:	MB 490-392479/1-A	Analysis Batch:	490-393176	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-392479	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.507 g
Analysis Date:	12/08/2016 1159	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1327				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	9.86	U	9.86	19.7
Antimony	0.986	U	0.986	9.86
Arsenic	1.18	U	1.18	1.97
Barium	0.986	U	0.986	1.97
Beryllium	0.197	U	0.197	0.986
Cadmium	0.0986	U	0.0986	0.986
Calcium	98.6	U	98.6	197
Chromium	0.888	U	0.888	0.986
Cobalt	0.986	U	0.986	1.97
Copper	1.08	U	1.08	1.97
Iron	19.7	U	19.7	39.4
Lead	0.493	U	0.493	0.986
Magnesium	98.6	U	98.6	197
Manganese	0.986	U	0.986	2.96
Nickel	0.592	U	0.592	1.97
Potassium	98.6	U	98.6	197
Selenium	1.08	U	1.08	1.97
Silver	0.394	U	0.394	0.986
Sodium	128	U	128	197
Thallium	0.592	U	0.592	1.97
Vanadium	1.97	U	1.97	9.86
Zinc	4.93	U	4.93	9.86

Client: Roux Associates, Inc. Job Number: 490-117346-3

Lab Control Sample - Batch: 490-392479

Method: 6010C
Preparation: 3051A

Lab Sample ID:	LCS 490-392479/2-A	Analysis Batch:	490-393176	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-392479	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.502 g
Analysis Date:	12/08/2016 1204	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1327				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	797	798.0	100	80 - 120	
Antimony	39.8	36.77	92	80 - 120	
Arsenic	19.9	19.34	97	80 - 120	
Barium	797	812.5	102	80 - 120	
Beryllium	19.9	20.20	101	80 - 120	
Cadmium	19.9	20.50	103	80 - 120	
Calcium	1990	1994	100	80 - 120	
Chromium	79.7	87.35	110	80 - 120	
Cobalt	199	209.4	105	80 - 120	
Copper	99.6	99.68	100	80 - 120	
Iron	398	399.6	100	80 - 120	
Lead	19.9	19.82	99	80 - 120	
Magnesium	1990	1988	100	80 - 120	
Manganese	199	200.8	101	80 - 120	
Nickel	199	209.8	105	80 - 120	
Potassium	1990	1968	99	80 - 120	
Selenium	19.9	19.20	96	80 - 120	
Silver	19.9	19.16	96	80 - 120	
Sodium	1990	1959	98	80 - 120	
Thallium	120	113.2	95	80 - 120	
Vanadium	199	201.0	101	80 - 120	
Zinc	199	192.7	97	80 - 120	

Client: Roux Associates, Inc. Job Number: 490-117346-3

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392479

Method: 6010C
Preparation: 3051A

MS Lab Sample ID:	490-117454-D-1-B MS	Analysis Batch:	490-393176	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-392479	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.506 g
Analysis Date:	12/08/2016 1242			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1327				
Leach Date:	N/A				

MSD Lab Sample ID:	490-117454-D-1-C MSD	Analysis Batch:	490-393176	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-392479	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.507 g
Analysis Date:	12/08/2016 1247			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1327				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aluminum	102	99	75 - 125	3	20		
Antimony	87	88	75 - 125	1	20		
Arsenic	93	95	75 - 125	2	20		
Barium	97	99	75 - 125	2	20		
Beryllium	98	99	75 - 125	1	20		
Cadmium	99	101	75 - 125	2	20		
Calcium	101	103	75 - 125	1	20		
Chromium	108	109	75 - 125	1	20		
Cobalt	101	103	75 - 125	2	20		
Copper	97	98	75 - 125	1	20		
Iron	114	104	75 - 125	9	20		
Lead	97	98	75 - 125	1	20		
Magnesium	98	99	75 - 125	1	20		
Manganese	98	100	75 - 125	2	20		
Nickel	101	103	75 - 125	2	20		
Potassium	95	96	75 - 125	1	20		
Selenium	90	93	75 - 125	3	20		
Silver	93	94	75 - 125	1	20		
Sodium	95	96	75 - 125	1	20		
Thallium	90	92	75 - 125	2	20		
Vanadium	97	99	75 - 125	1	20		
Zinc	94	95	75 - 125	2	20		

Method Blank - Batch: 490-392556

Method: 6010C
Preparation: 3051A

Lab Sample ID:	MB 490-392556/1-A	Analysis Batch:	490-394970	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-392556	Lab File ID:	TALS_121516-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.495 g
Analysis Date:	12/15/2016 2328	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1549				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	10.1	U	10.1	20.2
Antimony	1.01	U	1.01	10.1
Arsenic	1.21	U	1.21	2.02
Barium	1.01	U	1.01	2.02
Beryllium	0.202	U	0.202	1.01
Calcium	101	U	101	202
Chromium	0.909	U	0.909	1.01
Cobalt	1.01	U	1.01	2.02
Copper	1.11	U	1.11	2.02
Iron	20.2	U	20.2	40.4
Lead	0.505	U	0.505	1.01
Magnesium	101	U	101	202
Manganese	1.01	U	1.01	3.03
Nickel	0.606	U	0.606	2.02
Potassium	101	U	101	202
Selenium	1.11	U	1.11	2.02
Silver	0.404	U	0.404	1.01
Sodium	131	U	131	202
Thallium	0.606	U	0.606	2.02
Vanadium	2.02	U	2.02	10.1
Zinc	5.05	U	5.05	10.1

Method Blank - Batch: 490-392556

Method: 6010C
Preparation: 3051A

Lab Sample ID:	MB 490-392556/1-A	Analysis Batch:	490-395466	Instrument ID:	ICP6
Client Matrix:	Solid	Prep Batch:	490-392556	Lab File ID:	TALS_121816-6B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.495 g
Analysis Date:	12/19/2016 0108	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1549				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Cadmium	0.101	U	0.101	1.01

Client: Roux Associates, Inc. Job Number: 490-117346-3

Lab Control Sample - Batch: 490-392556

Method: 6010C
Preparation: 3051A

Lab Sample ID:	LCS 490-392556/2-A	Analysis Batch:	490-394970	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-392556	Lab File ID:	TALS_121516-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.512 g
Analysis Date:	12/15/2016 2345	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1549				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	781	761.3	97	80 - 120	
Antimony	39.1	39.16	100	80 - 120	
Arsenic	19.5	17.64	90	80 - 120	
Barium	781	756.6	97	80 - 120	
Beryllium	19.5	18.87	97	80 - 120	
Calcium	1950	1945	100	80 - 120	
Chromium	78.1	76.09	97	80 - 120	
Cobalt	195	194.7	100	80 - 120	
Copper	97.7	95.63	98	80 - 120	
Iron	391	387.3	99	80 - 120	
Lead	19.5	19.86	102	80 - 120	
Magnesium	1950	1975	101	80 - 120	
Manganese	195	192.8	99	80 - 120	
Nickel	195	196.7	101	80 - 120	
Potassium	1950	1904	97	80 - 120	
Selenium	19.5	18.14	93	80 - 120	
Silver	19.5	17.30	89	80 - 120	
Sodium	1950	1949	100	80 - 120	
Thallium	117	106.8	91	80 - 120	
Vanadium	195	189.5	97	80 - 120	
Zinc	195	187.6	96	80 - 120	

Lab Control Sample - Batch: 490-392556

Method: 6010C
Preparation: 3051A

Lab Sample ID:	LCS 490-392556/2-A	Analysis Batch:	490-395466	Instrument ID:	ICP6
Client Matrix:	Solid	Prep Batch:	490-392556	Lab File ID:	TALS_121816-6B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.512 g
Analysis Date:	12/19/2016 0113	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1549				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	19.5	18.71	96	80 - 120	

Client: Roux Associates, Inc. Job Number: 490-117346-3

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392556

Method: 6010C
Preparation: 3051A

MS Lab Sample ID:	490-117346-20	Analysis Batch:	490-394970	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-392556	Lab File ID:	TALS_121516-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.516 g
Analysis Date:	12/16/2016 0010			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1549				
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-20	Analysis Batch:	490-394970	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-392556	Lab File ID:	TALS_121516-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.510 g
Analysis Date:	12/16/2016 0015			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1549				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aluminum	44	2	75 - 125	5	20	4	4
Antimony	94	92	75 - 125	0	20		
Arsenic	76	78	75 - 125	3	20		
Barium	81	78	75 - 125	2	20		
Beryllium	94	92	75 - 125	1	20		
Calcium	123	151	75 - 125	7	20		N
Chromium	92	91	75 - 125	0	20		
Cobalt	93	92	75 - 125	1	20		
Copper	94	93	75 - 125	0	20		
Iron	-746	-1159	75 - 125	13	20	4	4
Lead	58	56	75 - 125	1	20	N	N
Magnesium	126	81	75 - 125	21	20	N	N
Manganese	-517	-589	75 - 125	11	20	4	4
Nickel	95	93	75 - 125	1	20		
Potassium	88	81	75 - 125	5	20		
Selenium	82	78	75 - 125	3	20		
Silver	82	82	75 - 125	0	20		
Sodium	100	98	75 - 125	1	20		
Thallium	84	83	75 - 125	0	20		
Vanadium	93	91	75 - 125	1	20		
Zinc	91	90	75 - 125	0	20		

Client: Roux Associates, Inc. Job Number: 490-117346-3

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392556

Method: 6010C
Preparation: 3051A

MS Lab Sample ID:	490-117346-20	Analysis Batch:	490-395466	Instrument ID:	ICP6
Client Matrix:	Solid	Prep Batch:	490-392556	Lab File ID:	TALS_121816-6B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.516 g
Analysis Date:	12/19/2016 0144			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1549				
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-20	Analysis Batch:	490-395466	Instrument ID:	ICP6
Client Matrix:	Solid	Prep Batch:	490-392556	Lab File ID:	TALS_121816-6B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.510 g
Analysis Date:	12/19/2016 0149			Final Weight/Volume:	100 mL
Prep Date:	12/07/2016 1549				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cadmium	90	88	75 - 125	1	20		

Client: Roux Associates, Inc. Job Number: 490-117346-3

Method Blank - Batch: 490-394259

Method: 7471B
Preparation: 7471B

Lab Sample ID:	MB 490-394259/1-A	Analysis Batch:	490-394618	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-394259	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.603 g
Analysis Date:	12/15/2016 0853	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1201				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0299	U	0.0299	0.0995

Lab Control Sample - Batch: 490-394259

Method: 7471B
Preparation: 7471B

Lab Sample ID:	LCS 490-394259/2-A	Analysis Batch:	490-394618	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-394259	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.623 g
Analysis Date:	12/15/2016 0855	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1201				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.161	0.1345	84	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-394259

Method: 7471B
Preparation: 7471B

MS Lab Sample ID:	490-117346-22	Analysis Batch:	490-394618	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-394259	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.615 g
Analysis Date:	12/15/2016 0905			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1201				
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-22	Analysis Batch:	490-394618	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-394259	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.620 g
Analysis Date:	12/15/2016 0908			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1201				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	101	89	80 - 120	13	20		

Client: Roux Associates, Inc. Job Number: 490-117346-3

Method Blank - Batch: 490-394265

Method: 7471B
Preparation: 7471B

Lab Sample ID:	MB 490-394265/1-A	Analysis Batch:	490-394618	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.597 g
Analysis Date:	12/15/2016 1007	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0302	U	0.0302	0.101

Lab Control Sample - Batch: 490-394265

Method: 7471B
Preparation: 7471B

Lab Sample ID:	LCS 490-394265/2-A	Analysis Batch:	490-394618	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.625 g
Analysis Date:	12/15/2016 1010	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.160	0.1572	98	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-394265

Method: 7471B
Preparation: 7471B

MS Lab Sample ID:	490-117346-A-1-G MS	Analysis Batch:	490-394618	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.604 g
Analysis Date:	12/15/2016 1015			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				
Leach Date:	N/A				

MSD Lab Sample ID:	490-117346-A-1-H MSD	Analysis Batch:	490-394618	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-394265	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.606 g
Analysis Date:	12/15/2016 1017			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1214				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	106	100	80 - 120	6	20		

Client: Roux Associates, Inc. Job Number: 490-117346-3

Duplicate - Batch: 490-392389

Method: Moisture
Preparation: N/A

Lab Sample ID:	490-117346-20	Analysis Batch:	490-392389	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/07/2016 1036	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	85.9	87.1	1	20	

Duplicate - Batch: 490-392389

Method: Moisture
Preparation: N/A

Lab Sample ID:	490-117346-A-7 DU	Analysis Batch:	490-392389	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/07/2016 1036	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	89.5	90.9	2	20	

Huckaba, Jimmy

From: Amy Hoffmann <ahoffmann@rouxinc.com>
Sent: Tuesday, December 06, 2016 5:38 AM
To: Huckaba, Jimmy; Huckaba, Jennifer; Matthew Casey; Marjorie Grace van der Ven
Subject: RE: (Please see note.) TestAmerica Sample Login Confirmation files from 490-117346 350/351 Franklin Street

Jimmy

Please add VOCS with TICS for all samples.

Thanks

Get Outlook for Android<https://aka.ms/ghei36>

From: Huckaba, Jimmy
Sent: Monday, December 5, 4:51 PM
Subject: RE: (Please see note.) TestAmerica Sample Login Confirmation files from 490-117346 350/351 Franklin Street
To: Huckaba, Jimmy, Amy Hoffmann, Huckaba, Jennifer, Matthew Casey, Marjorie Grace van der Ven

Also, please note pages 1 and 2 record the 8260 request as Standard 8260 List + TICs; however, page 2 only records Standard 8260 List. Do you need TICs also for the samples on page 2?

Thanks,

SHIPPING ALERT: Christmas Holiday, Monday December 26th 2016

For the upcoming Christmas holiday (observed Monday, December 26th) FedEx and UPS will not have scheduled service on Monday December 26th.

If you have BODs sampled on December 19th, 20th or 21st or short hold samples arriving Friday December 23rd or on the weekend, we ask that you contact your Project Manager in advance to ensure your samples meet all holding time criteria.

We are thankful for your business and hope that you have a wonderful and safe holiday!

Jimmy Huckaba

PROJECT MANAGEMENT ASSISTANT

TestAmerica

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Tel 615.301.5746

www.testamericainc.com<http://www.testamericainc.com/>

From: Huckaba, Jimmy [mailto:jimmy.huckaba@testamericainc.com]
Sent: Monday, December 05, 2016 3:35 PM
To: Amy Hoffmann; Huckaba, Jennifer; Matthew Casey; Marjorie Grace van der Ven
Subject: (Please see note.) TestAmerica Sample Login Confirmation files from 490-117346 350/351 Franklin Street

Hello,

Attached, please find the Sample Confirmation files for job 490-117346; 350/351 Franklin Street

Note: Sample END 451 was not recorded on the COC. Do you want to run any tests on this sample?
The COC records 4 pages but only pages 1, 2 and 3 were received.
For sample END-465, the COC records the sample time as 1416, but the labels record 1415. Can you verify which time is correct?
For sample END-463, the COC records the sample time as 1412, but the labels record 1415. Can you verify which time is correct?For sample END-464, the COC records the sample time as 1414, but the labels record 1415. Can you verify which time is correct?

Please feel free to contact me or your PM, Jennifer Huckaba, if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback<https://www.surveymonkey.com/s/TAProjectFeedback>

JIMMY HUCKABA
Project Management Assistant I

TestAmerica Nashville
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 615.726,0177

Reference: [335339]
Attachments: 3

Huckaba, Jimmy

From: Amy Hoffmann <ahoffmann@rouxinc.com>
Sent: Tuesday, December 06, 2016 5:50 AM
To: Huckaba, Jimmy; Huckaba, Jennifer; Matthew Casey; Marjorie Grace van der Ven
Subject: RE: (Please see note.) TestAmerica Sample Login Confirmation files from 490-117346 350/351 Franklin Street

Jimmy

Can you confirm that you received three coolers for this shipment?

Please add END 451 for all analysis

Times should be as indicated on the labels: 1415

Get Outlook for Android<https://aka.ms/ghei36>

From: Huckaba, Jimmy
Sent: Monday, December 5, 4:51 PM
Subject: RE: (Please see note.) TestAmerica Sample Login Confirmation files from 490-117346 350/351 Franklin Street
To: Huckaba, Jimmy, Amy Hoffmann, Huckaba, Jennifer, Matthew Casey, Marjorie Grace van der Ven

Also, please note pages 1 and 2 record the 8260 request as Standard 8260 List + TICs; however, page 2 only records Standard 8260 List. Do you need TICs also for the samples on page 2?

Thanks,

SHIPPING ALERT: Christmas Holiday, Monday December 26th 2016

For the upcoming Christmas holiday (observed Monday, December 26th) FedEx and UPS will not have scheduled service on Monday December 26th.

If you have BODs sampled on December 19th, 20th or 21st or short hold samples arriving Friday December 23rd or on the weekend, we ask that you contact your Project Manager in advance to ensure your samples meet all holding time criteria.

We are thankful for your business and hope that you have a wonderful and safe holiday!

Jimmy Huckaba

PROJECT MANAGEMENT ASSISTANT

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Drive

Nashville, TN 37204

Tel 615.301.5746

www.testamericainc.com<http://www.testamericainc.com/>

From: Huckaba, Jimmy [mailto:jimmy.huckaba@testamericainc.com]
Sent: Monday, December 05, 2016 3:35 PM
To: Amy Hoffmann; Huckaba, Jennifer; Matthew Casey; Marjorie Grace van der Ven
Subject: (Please see note.) TestAmerica Sample Login Confirmation files from 490-117346 350/351 Franklin Street

Hello,

Attached, please find the Sample Confirmation files for job 490-117346; 350/351 Franklin Street

Note: Sample END 451 was not recorded on the COC. Do you want to run any tests on this sample?
The COC records 4 pages but only pages 1, 2 and 3 were received.
For sample END-465, the COC records the sample time as 1416, but the labels record 1415. Can you verify which time is correct?
For sample END-463, the COC records the sample time as 1412, but the labels record 1415. Can you verify which time is correct?For sample END-464, the COC records the sample time as 1414, but the labels record 1415. Can you verify which time is correct?

Please feel free to contact me or your PM, Jennifer Huckaba, if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback<https://www.surveymonkey.com/s/TAProjectFeedback>

JIMMY HUCKABA
Project Management Assistant I

TestAmerica Nashville
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 615.726,0177

Reference: [335339]
Attachments: 3

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-117346 Chain of Custody

Cooler Received/Opened On 12/3/2016 @0925

Time Samples Removed From Cooler 1450 Time Samples Placed In Storage 1532 (2 Hour Window)

1. Tracking # 1722 (last 4 digits, FedEx) Courier: FEDEX

IR Gun ID_31470366 pH Strip Lot HC 682547 Chlorine Strip Lot 0811616

2. Temperature of rep. sample or temp blank when opened: 4.7 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 1

I certify that I unloaded the cooler and answered questions 7-14 (intial) PN

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) PN

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) PN

I certify that I attached a label with the unique LIMS number to each container (intial) PN

21. Were there Non-Conformance issues at login? YES..NO Was a NCM generated? YES..NO..#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 12/15/15

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Loc: 490
117346
#1
C

Cooler Received/Opened On 12/3/2016 @0925

Time Samples Removed From Cooler 1510 Time Samples Placed In Storage 1552 (2 Hour Window)

1. Tracking # 7144 (last 4 digits, FedEx) Courier: FEDEX

IR Gun ID 97310166 pH Strip Lot HC682547 Chlorine Strip Lot 0811611

2. Temperature of rep. sample or temp blank when opened: 4.8 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES..NO...NA

If yes, how many and where: Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) SL

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES..NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 2

I certify that I unloaded the cooler and answered questions 7-14 (intial) PM

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) PM

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) PM

I certify that I attached a label with the unique LIMS number to each container (intial) PM

21. Were there Non-Conformance issues at login? YES..NO Was a NCM generated? YES..NO..#_____

BIS = Broken in shipment

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Anthony Marsocci	Lab PM: Huckaba, Jennifer	Carrier Tracking No(s):	COC No: 490-59953-19378
Client Contact: Matthew Casey	Phone: 585-721-1196	E-Mail: jennifer.huckaba@testamericainc.com		Page: Page 1 OF 4
Company: Roux Associates, Inc.				Job #:
Address: 12 Gill St., Suite 4700	Due Date Requested:			
City: Woburn	TAT Requested (days): Standard			
State, Zip: MA, 01801				
Phone:	PO #: 0172.0210M009			
Email: mcasey@rouxinc.com	WO #:			
Project Name: Roux - Olean, NY	Project #: 49005538			
Site: 350/351 Franklin Street	SSOW#:			

Analysis Requested

Loc: 490
117346

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Standard 8260 List + TICs	8270D - Standard List	6010C, 7471B - TAL METALS	DRY WEIGHT	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
END 447	11/28/16	1500	G	S	N	N	X	X	X	X	4	
END 450	11/28/16	1530	G	S	N	N	X	X	X	X	4	
END 445	11/28/16	1430	G	S	N	N	X	X	X	X	4	
END 443	11/28/16	1400	G	S	N	N	X	X	X	X	4	
END 449	11/28/16	1530	G	S	N	N	X	X	X	X	4	
END 448	11/28/16	1500	G	S	N	N	X	X	X	X	4	
END 452	11/29/16	1600	G	S	N	N	X	X	X	X	4	
END 446	11/28/16	1430	G	S	N	N	X	X	X	X	4	
END 444	11/28/16	1400	G	S	N	N	X	X	X	X	4	
TP-313-6-7	11/28/16	1145	G	S	N	N	X	X	X	X	4	
Trip Blank											2	

Page 179 of 185

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) CAT A

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Anthony Marsocci Date: 02 Dec 2016 Time: 1600 Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	02 Dec 2016 1600	ROUX	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12/3/16 925	Company TAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☒ Yes ☐ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 4.7

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Anthony Marsocci	Lab PM: Huckaba, Jennifer	Carrier Tracking No(s):	COC No: 490-59873-19348
Client Contact: Matthew Casey	Phone: 585-721-1196	E-Mail: jennifer.huckaba@testamericainc.com		Page: Page 2 OF 4
Company: Roux Associates, Inc.				Job #:
Address: 12 Gill St., Suite 4700	Due Date Requested:			
City: Woburn	TAT Requested (days): Standard			
State, Zip: MA, 01801				
Phone:	PO #: 0172.0210M009			
Email: mcasey@rouxinc.com	WO #:			
Project Name: Roux - Olean, NY	Project #: 49005538			
Site: 350/351 Franklin Street	SSOW#:			

Analysis Requested

Loc: 490
117346
#1
A

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Standard 8260 List	8270D - Standard List	6010C, 7471B - TAL METALS	DRY WEIGHT	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
END 459	11/29/16	1030	G	S	N	N	X	X	X	X	4	
END 457	11/29/16	0930	G	S	N	N	X	X	X	X	4	
END 456	11/29/16	0915	G	S	N	N	X	X	X	X	4	
END 453	11/29/16	0900	G	S	N	N	X	X	X	X	4	
END 455	11/29/16	0915	G	S	N	N	X	X	X	X	4	
END 454	11/29/16	0900	G	S	N	N	X	X	X	X	4	
END 458	11/29/16	1030	G	S	N	N	X	X	X	X		

Page 1 of 1
15
16
17
18

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) CAT A

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Anthony Marsocci	Date: 02 Dec 2016	Time: 1600	Method of Shipment:		
Relinquished by:	Date/Time: 02 Dec 2016 1600	Company: ROUX	Received by: FedEx	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: 4.7	Date/Time: 12/3/16 925	Company TAN
Relinquished by	Date/Time:	Company	Received by: 4.0	Date/Time:	Company

Custody Seals Intact: ∧ Yes ∧ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: A. Marsocci	Lab PM: Huckaba, Jennifer	Carrier Tracking No(s):	COC No: 490-59873-19348
Client Contact: Matthew Casey	Phone: 585-721-1196	E-Mail: jennifer.huckaba@testamericainc.com		Page: Page 3 OF 4
Company: Roux Associates, Inc.				Job #:
Address: 12 Gill St., Suite 4700	Due Date Requested:			
City: Woburn	TAT Requested (days): Standard			
State, Zip: MA, 01801				
Phone:	PO #: 0172.0210M009			
Email: mcasey@rouxinc.com	WO #:			
Project Name: Roux - Olean, NY	Project #: 49005538			
Site: 350/351 Franklin St	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Loc: 490 117346 #1 B

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Standard 8260 List + TICs	8270D - Standard List	6010C, 7471B - TAL METALS	DRY WEIGHT	Total Number of containers	Special Instructions/Note:
				Preservation Code:									
1	END-460	11/30/16	1400	G	S	N	N	✓	✓	✓	✓	4	
20	END-468	12/1/16	0930	G	S	N	N	✓	✓	✓	✓	4	
21	END-461	11/30/16	1400	G	S	N	N	✓	✓	✓	✓	4	
22	END-466	11/30/16	1430	G	S	N	N	✓	✓	✓	✓	4	
23	END-462	11/30/16	1415	G	S	N	N	✓	✓	✓	✓	4	
24	TRIP BLANK	—	—	LAB	LAB							2	
25	END-465	11/30/16	1416	G	S	N	N	✓	✓	✓	✓	4	
26	END-463	11/30/16	1412	G	S	N	N	✓	✓	✓	✓	4	
27	END-464	11/30/16	1414	G	S	N	N	✓	✓	✓	✓	4	
28	END-467	11/30/16	1430	G	S	N	N	✓	✓	✓	✓	4	

Page 181 of 182

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) CAT A

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
A. Marsocci	12/2/16 1600	Roux	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			✓ 4.7	12/3/16 925	TAL
Relinquished by:	Date/Time:	Company	Received by: 4.8	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 490-117346-3

Login Number: 117346
List Number: 1
Creator: Ngo, Phiet

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

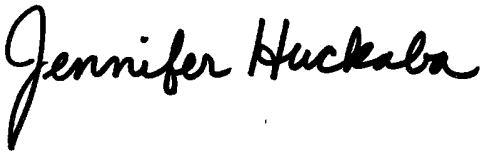
Job Number: 490-117419-1

Job Description: 350/351 Franklin - Olean, NY

Contract Number: A2288121

For:
Roux Associates, Inc.
12 Gill St., Suite 4700
Woburn, MA 01801

Attention: Matthew Casey



Approved for release.
Jennifer Huckaba
Project Manager II
12/19/2016 4:48 PM

Jennifer Huckaba, Project Manager II
2960 Foster Creighton Drive, Nashville, TN, 37204
(615)301-5042
jennifer.huckaba@testamericainc.com
12/19/2016

The laboratory is only responsible for the certified testing and is not responsible for the sample integrity prior to laboratory receipt.

Job Narrative
490-117419-1

Comments
No additional comments.

Receipt
The samples were received on 12/5/2016 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.8º C.

Exceptions

Sample END 509 (490-117419-2) had no label, but the ID was written on the lid.

GC/MS VOA
Method(s) 8260C: The following samples were diluted due to the nature of the sample matrix: END-506 (490-117419-1), END-509 (490-117419-2), END-507 (490-117419-4), END-508 (490-117419-5), END-505 (490-117419-6), END-504 (490-117419-7), END-502 (490-117419-8) and END-503 (490-117419-9). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: Internal standard responses were outside of acceptance limits for the following samples: END-506 (490-117419-1), END-509 (490-117419-2), END-505 (490-117419-6), END-504 (490-117419-7), END-502 (490-117419-8) and END-503 (490-117419-9). The samples show evidence of matrix interference.

Method(s) 8260C: Surrogate recovery for the following samples was outside control limits: END-506 (490-117419-1), END-509 (490-117419-2), END-505 (490-117419-6), END-504 (490-117419-7) and END-503 (490-117419-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 490-393795 recovered outside control limits for the following analytes: Dichlorodifluoromethane. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 393795 recovered outside control limits for the following analytes: 1,1,2,2-Tetrachloroethane and dibromochloromethane.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: Surrogate recovery for the following sample was outside control limits: END-509 (490-117419-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8270D: The following samples was diluted due to the nature of the sample matrix: END-506 (490-117419-1), END-509 (490-117419-2), END-507 (490-117419-4), END-508 (490-117419-5), END-505 (490-117419-6), END-504 (490-117419-7), END-502 (490-117419-8) and END-503 (490-117419-9). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 490-392774 and analytical batch 490-393298 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

The laboratory is only responsible for the certified testing and is not responsible for the sample integrity prior to laboratory receipt.

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117419-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117419-1	**END-506**					
Acetone		0.134		0.0924	mg/Kg	8260C
Benzene		0.0105		0.00370	mg/Kg	8260C
2-Butanone (MEK)		0.0376	J	0.0924	mg/Kg	8260C
Ethylbenzene		0.00341	J	0.00370	mg/Kg	8260C
Isopropylbenzene		0.000787	J	0.00370	mg/Kg	8260C
m,p-Xylene		0.0216		0.00739	mg/Kg	8260C
o-Xylene		0.00618		0.00370	mg/Kg	8260C
Toluene		0.0143		0.00370	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.0993	J	0.155	mg/Kg	8260C
Xylenes (total)		0.0278		0.0111	mg/Kg	8260C
Benzo(g,h,i)perylene		0.496		0.434	mg/Kg	8270D
Aluminum		10800		25.3	mg/Kg	6010C
Arsenic		102		2.53	mg/Kg	6010C
Barium		123		2.53	mg/Kg	6010C
Beryllium		1.11	J	1.26	mg/Kg	6010C
Cadmium		0.379	J	1.26	mg/Kg	6010C
Calcium		74900		253	mg/Kg	6010C
Chromium		16.9		1.26	mg/Kg	6010C
Cobalt		9.48		2.53	mg/Kg	6010C
Copper		632		2.53	mg/Kg	6010C
Iron		57200		50.5	mg/Kg	6010C
Lead		71.5		1.26	mg/Kg	6010C
Magnesium		5930		253	mg/Kg	6010C
Manganese		2190		3.79	mg/Kg	6010C
Nickel		26.8		2.53	mg/Kg	6010C
Potassium		986		253	mg/Kg	6010C
Selenium		7.08		2.53	mg/Kg	6010C
Sodium		233	J	253	mg/Kg	6010C
Thallium		1.04	J	2.53	mg/Kg	6010C
Vanadium		30.6		12.6	mg/Kg	6010C
Zinc		67.0		12.6	mg/Kg	6010C
Percent Solids		76.7		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117419-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117419-2	**END-509**					
Benzene		0.216		0.00316	mg/Kg	8260C
2-Butanone (MEK)		0.0436	J	0.0790	mg/Kg	8260C
Carbon disulfide		0.0205		0.00790	mg/Kg	8260C
Ethylbenzene		2.98		0.170	mg/Kg	8260C
Isopropylbenzene		1.11		0.170	mg/Kg	8260C
m,p-Xylene		11.8		0.256	mg/Kg	8260C
Naphthalene		5.00		0.426	mg/Kg	8260C
N-Propylbenzene		1.88		0.170	mg/Kg	8260C
o-Xylene		2.30		0.170	mg/Kg	8260C
p-Isopropyltoluene		2.85		0.170	mg/Kg	8260C
tert-Butylbenzene		0.142	J	0.170	mg/Kg	8260C
Toluene		3.56		0.170	mg/Kg	8260C
1,2,4-Trimethylbenzene		28.3		0.170	mg/Kg	8260C
1,3,5-Trimethylbenzene		8.08		0.170	mg/Kg	8260C
Xylenes (total)		14.1		0.256	mg/Kg	8260C
Anthracene		0.904		0.460	mg/Kg	8270D
Benzo(a)anthracene		0.503		0.460	mg/Kg	8270D
Benzo(a)pyrene		0.672		0.460	mg/Kg	8270D
Benzo(b)fluoranthene		0.330	J	0.460	mg/Kg	8270D
Benzo(g,h,i)perylene		1.26		0.460	mg/Kg	8270D
Chrysene		0.775		0.460	mg/Kg	8270D
Fluoranthene		0.861		0.460	mg/Kg	8270D
Fluorene		1.51		0.460	mg/Kg	8270D
Ideno(1,2,3-cd)pyrene		0.230	J	0.460	mg/Kg	8270D
1-Methylnaphthalene		11.3		0.460	mg/Kg	8270D
2-Methylnaphthalene		2.91		0.460	mg/Kg	8270D
Naphthalene		1.34		0.460	mg/Kg	8270D
Phenanthrene		6.57		0.460	mg/Kg	8270D
Pyrene		6.37		0.460	mg/Kg	8270D
Aluminum		10200		27.4	mg/Kg	6010C
Antimony		7.90	J	13.7	mg/Kg	6010C
Arsenic		162		2.74	mg/Kg	6010C
Barium		451		2.74	mg/Kg	6010C
Beryllium		1.40		1.37	mg/Kg	6010C
Cadmium		3.21		1.37	mg/Kg	6010C
Calcium		41100		274	mg/Kg	6010C
Chromium		23.9		1.37	mg/Kg	6010C
Cobalt		11.8		2.74	mg/Kg	6010C
Copper		124		2.74	mg/Kg	6010C
Iron		34900		54.9	mg/Kg	6010C
Lead		1500		1.37	mg/Kg	6010C
Magnesium		5350		274	mg/Kg	6010C
Manganese		943		4.12	mg/Kg	6010C
Nickel		30.0		2.74	mg/Kg	6010C
Potassium		2750		274	mg/Kg	6010C
Selenium		8.07		2.74	mg/Kg	6010C

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117419-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
Silver		1.84		1.37	mg/Kg	6010C
Sodium		333		274	mg/Kg	6010C
Thallium		1.07	J	2.74	mg/Kg	6010C
Vanadium		37.3		13.7	mg/Kg	6010C
Zinc		442		13.7	mg/Kg	6010C
Mercury		0.152		0.134	mg/Kg	7471B
Percent Solids		72.4		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117419-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117419-4	**END-507**					
Benzene		0.554		0.176	mg/Kg	8260C
Chloroform		0.0812	J	0.176	mg/Kg	8260C
Ethylbenzene		0.267		0.176	mg/Kg	8260C
Isopropylbenzene		0.402		0.176	mg/Kg	8260C
m,p-Xylene		0.695		0.263	mg/Kg	8260C
Naphthalene		1.32		0.439	mg/Kg	8260C
N-Propylbenzene		0.609		0.176	mg/Kg	8260C
o-Xylene		0.340		0.176	mg/Kg	8260C
p-Isopropyltoluene		0.105	J	0.176	mg/Kg	8260C
sec-Butylbenzene		0.188		0.176	mg/Kg	8260C
Toluene		0.509		0.176	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.509		0.176	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.453		0.176	mg/Kg	8260C
Xylenes (total)		1.04		0.263	mg/Kg	8260C
Anthracene		0.692		0.450	mg/Kg	8270D
Benzo(a)anthracene		0.282	J	0.450	mg/Kg	8270D
Benzo(a)pyrene		0.284	J	0.450	mg/Kg	8270D
Benzo(g,h,i)perylene		0.250	J	0.450	mg/Kg	8270D
Chrysene		0.830		0.450	mg/Kg	8270D
Fluoranthene		0.455		0.450	mg/Kg	8270D
Fluorene		2.08		0.450	mg/Kg	8270D
1-Methylnaphthalene		3.49		0.450	mg/Kg	8270D
2-Methylnaphthalene		0.909		0.450	mg/Kg	8270D
Phenanthrene		7.09		0.450	mg/Kg	8270D
Pyrene		2.73		0.450	mg/Kg	8270D
Aluminum		7720		26.1	mg/Kg	6010C
Antimony		2.58	J	13.0	mg/Kg	6010C
Arsenic		35.8		2.61	mg/Kg	6010C
Barium		83.4		2.61	mg/Kg	6010C
Beryllium		0.495	J	1.30	mg/Kg	6010C
Cadmium		0.417	J	1.30	mg/Kg	6010C
Calcium		43200		261	mg/Kg	6010C
Chromium		11.2		1.30	mg/Kg	6010C
Cobalt		8.34		2.61	mg/Kg	6010C
Copper		325		2.61	mg/Kg	6010C
Iron		29400		52.1	mg/Kg	6010C
Lead		268		1.30	mg/Kg	6010C
Magnesium		3400		261	mg/Kg	6010C
Manganese		532		3.91	mg/Kg	6010C
Nickel		17.8		2.61	mg/Kg	6010C
Potassium		863		261	mg/Kg	6010C
Selenium		5.13		2.61	mg/Kg	6010C
Vanadium		24.0		13.0	mg/Kg	6010C
Zinc		116		13.0	mg/Kg	6010C
Mercury		0.128	J	0.130	mg/Kg	7471B
Percent Solids		74.2		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117419-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117419-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117419-5	**END-508**					
Benzene		0.412		0.196	mg/Kg	8260C
Ethylbenzene		0.392		0.196	mg/Kg	8260C
Isopropylbenzene		0.288		0.196	mg/Kg	8260C
m,p-Xylene		2.21		0.294	mg/Kg	8260C
Naphthalene		1.40		0.489	mg/Kg	8260C
N-Propylbenzene		0.404		0.196	mg/Kg	8260C
o-Xylene		0.496		0.196	mg/Kg	8260C
p-Isopropyltoluene		0.221		0.196	mg/Kg	8260C
sec-Butylbenzene		0.104	J	0.196	mg/Kg	8260C
Toluene		0.575		0.196	mg/Kg	8260C
1,2,4-Trimethylbenzene		1.65		0.196	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.998		0.196	mg/Kg	8260C
Xylenes (total)		2.71		0.294	mg/Kg	8260C
Acenaphthene		0.546		0.437	mg/Kg	8270D
Anthracene		0.308	J	0.437	mg/Kg	8270D
Benzo(a)pyrene		0.579		0.437	mg/Kg	8270D
Benzo(b)fluoranthene		0.252	J	0.437	mg/Kg	8270D
Benzo(g,h,i)perylene		1.08		0.437	mg/Kg	8270D
Fluoranthene		0.656		0.437	mg/Kg	8270D
Ideno(1,2,3-cd)pyrene		0.207	J	0.437	mg/Kg	8270D
1-Methylnaphthalene		1.09		0.437	mg/Kg	8270D
2-Methylnaphthalene		0.743		0.437	mg/Kg	8270D
Phenanthrene		2.26		0.437	mg/Kg	8270D
Pyrene		11.1		0.437	mg/Kg	8270D
Aluminum		10700		26.2	mg/Kg	6010C
Arsenic		33.6		2.62	mg/Kg	6010C
Barium		138		2.62	mg/Kg	6010C
Beryllium		0.786	J	1.31	mg/Kg	6010C
Cadmium		0.524	J	1.31	mg/Kg	6010C
Calcium		7500		262	mg/Kg	6010C
Chromium		22.8		1.31	mg/Kg	6010C
Cobalt		7.15		2.62	mg/Kg	6010C
Copper		106		2.62	mg/Kg	6010C
Iron		45300		52.4	mg/Kg	6010C
Lead		476		1.31	mg/Kg	6010C
Magnesium		4880		262	mg/Kg	6010C
Manganese		197		3.93	mg/Kg	6010C
Nickel		29.2		2.62	mg/Kg	6010C
Potassium		712		262	mg/Kg	6010C
Selenium		5.24		2.62	mg/Kg	6010C
Sodium		396		262	mg/Kg	6010C
Vanadium		23.7		13.1	mg/Kg	6010C
Zinc		150		13.1	mg/Kg	6010C
Mercury		22.3		12.8	mg/Kg	7471B
Percent Solids		75.3		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117419-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117419-6	**END-505**					
Acetone		0.231		0.101	mg/Kg	8260C
Benzene		0.0876		0.00402	mg/Kg	8260C
2-Butanone (MEK)		0.0427	J	0.101	mg/Kg	8260C
Ethylbenzene		0.00565		0.00402	mg/Kg	8260C
Isopropylbenzene		0.000885	J	0.00402	mg/Kg	8260C
m,p-Xylene		0.0513		0.00805	mg/Kg	8260C
o-Xylene		0.0214		0.00402	mg/Kg	8260C
Toluene		0.134		0.00402	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.305		0.229	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.413		0.229	mg/Kg	8260C
Xylenes (total)		0.0727		0.0121	mg/Kg	8260C
Benzo(a)pyrene		0.270	J	0.413	mg/Kg	8270D
Benzo(g,h,i)perylene		1.45		0.413	mg/Kg	8270D
Dibenzo(a,h)anthracene		0.388	J	0.413	mg/Kg	8270D
Ideno(1,2,3-cd)pyrene		0.298	J	0.413	mg/Kg	8270D
Aluminum		6460		24.7	mg/Kg	6010C
Arsenic		34.6		2.47	mg/Kg	6010C
Barium		128		2.47	mg/Kg	6010C
Beryllium		1.06	J	1.23	mg/Kg	6010C
Cadmium		0.444	J	1.23	mg/Kg	6010C
Calcium		6200		247	mg/Kg	6010C
Chromium		13.9		1.23	mg/Kg	6010C
Cobalt		7.48		2.47	mg/Kg	6010C
Copper		57.9		2.47	mg/Kg	6010C
Iron		26900		49.4	mg/Kg	6010C
Lead		117		1.23	mg/Kg	6010C
Magnesium		1750		247	mg/Kg	6010C
Manganese		155		3.70	mg/Kg	6010C
Nickel		27.3		2.47	mg/Kg	6010C
Potassium		478		247	mg/Kg	6010C
Selenium		3.85		2.47	mg/Kg	6010C
Vanadium		24.8		12.3	mg/Kg	6010C
Zinc		40.6		12.3	mg/Kg	6010C
Mercury		0.358		0.122	mg/Kg	7471B
Percent Solids		78.7		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117419-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117419-7	**END-504**					
Acetone		0.151		0.0691	mg/Kg	8260C
Benzene		0.0141		0.00276	mg/Kg	8260C
2-Butanone (MEK)		0.0289	J	0.0691	mg/Kg	8260C
Ethylbenzene		0.00209	J	0.00276	mg/Kg	8260C
m,p-Xylene		0.0167		0.00553	mg/Kg	8260C
Naphthalene		0.296	J	0.402	mg/Kg	8260C
N-Propylbenzene		0.0793	J	0.161	mg/Kg	8260C
o-Xylene		0.00670		0.00276	mg/Kg	8260C
Toluene		0.0194		0.00276	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.643		0.161	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.858		0.161	mg/Kg	8260C
Xylenes (total)		0.0234		0.00829	mg/Kg	8260C
Benzo(g,h,i)perylene		0.423		0.390	mg/Kg	8270D
2-Methylnaphthalene		0.248	J	0.390	mg/Kg	8270D
Naphthalene		0.191	J	0.390	mg/Kg	8270D
Phenanthrene		0.215	J	0.390	mg/Kg	8270D
Pyrene		0.306	J	0.390	mg/Kg	8270D
Aluminum		8850		23.6	mg/Kg	6010C
Arsenic		23.3		2.36	mg/Kg	6010C
Barium		98.1		2.36	mg/Kg	6010C
Beryllium		0.589	J	1.18	mg/Kg	6010C
Cadmium		0.236	J	1.18	mg/Kg	6010C
Calcium		3190		236	mg/Kg	6010C
Chromium		19.0		1.18	mg/Kg	6010C
Cobalt		8.15		2.36	mg/Kg	6010C
Copper		62.3		2.36	mg/Kg	6010C
Iron		35100		47.1	mg/Kg	6010C
Lead		283		1.18	mg/Kg	6010C
Magnesium		2440		236	mg/Kg	6010C
Manganese		337		3.53	mg/Kg	6010C
Nickel		29.7		2.36	mg/Kg	6010C
Potassium		714		236	mg/Kg	6010C
Selenium		4.71		2.36	mg/Kg	6010C
Vanadium		22.3		11.8	mg/Kg	6010C
Zinc		62.3		11.8	mg/Kg	6010C
Mercury		0.240		0.116	mg/Kg	7471B
Percent Solids		84.6		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117419-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117419-8	**END-502**					
Acetone		0.0612		0.0582	mg/Kg	8260C
Benzene		0.00322		0.00233	mg/Kg	8260C
2-Butanone (MEK)		0.00892	J	0.0582	mg/Kg	8260C
m,p-Xylene		0.00486		0.00466	mg/Kg	8260C
Naphthalene		0.162	J	0.374	mg/Kg	8260C
N-Propylbenzene		0.0592	J	0.150	mg/Kg	8260C
o-Xylene		0.00134	J	0.00233	mg/Kg	8260C
Toluene		0.00386		0.00233	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.380		0.150	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.287		0.150	mg/Kg	8260C
Xylenes (total)		0.00620	J	0.00698	mg/Kg	8260C
Benzo(g,h,i)perylene		0.515		0.401	mg/Kg	8270D
1-Methylnaphthalene		0.320	J	0.401	mg/Kg	8270D
2-Methylnaphthalene		0.762		0.401	mg/Kg	8270D
Naphthalene		0.251	J	0.401	mg/Kg	8270D
Phenanthrene		0.651		0.401	mg/Kg	8270D
Pyrene		0.514		0.401	mg/Kg	8270D
Aluminum		7400		24.1	mg/Kg	6010C
Arsenic		30.4		2.41	mg/Kg	6010C
Barium		99.3		2.41	mg/Kg	6010C
Beryllium		0.650	J	1.20	mg/Kg	6010C
Cadmium		0.168	J	1.20	mg/Kg	6010C
Calcium		1840		241	mg/Kg	6010C
Chromium		13.0		1.20	mg/Kg	6010C
Cobalt		6.76		2.41	mg/Kg	6010C
Copper		129		2.41	mg/Kg	6010C
Iron		24400		48.1	mg/Kg	6010C
Lead		198		1.20	mg/Kg	6010C
Magnesium		1520		241	mg/Kg	6010C
Manganese		116		3.61	mg/Kg	6010C
Nickel		32.1		2.41	mg/Kg	6010C
Potassium		402		241	mg/Kg	6010C
Selenium		3.56		2.41	mg/Kg	6010C
Vanadium		20.1		12.0	mg/Kg	6010C
Zinc		71.2		12.0	mg/Kg	6010C
Mercury		1.24		0.237	mg/Kg	7471B
Percent Solids		81.6		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117419-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117419-9	**END-503**					
Acetone		0.140		0.0716	mg/Kg	8260C
Benzene		0.0288		0.00287	mg/Kg	8260C
2-Butanone (MEK)		0.0234	J	0.0716	mg/Kg	8260C
Carbon disulfide		0.00767		0.00716	mg/Kg	8260C
Ethylbenzene		0.0962	J	0.173	mg/Kg	8260C
m,p-Xylene		0.351		0.259	mg/Kg	8260C
o-Xylene		0.0977	J	0.173	mg/Kg	8260C
Toluene		0.279		0.173	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.142	J	0.173	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.231		0.173	mg/Kg	8260C
Xylenes (total)		0.449		0.259	mg/Kg	8260C
Aluminum		12900		26.4	mg/Kg	6010C
Arsenic		13.4		2.64	mg/Kg	6010C
Barium		69.6		2.64	mg/Kg	6010C
Beryllium		0.423	J	1.32	mg/Kg	6010C
Cadmium		0.317	J	1.32	mg/Kg	6010C
Calcium		1050		264	mg/Kg	6010C
Chromium		14.9		1.32	mg/Kg	6010C
Cobalt		5.95		2.64	mg/Kg	6010C
Copper		45.3		2.64	mg/Kg	6010C
Iron		15700		52.9	mg/Kg	6010C
Lead		49.8		1.32	mg/Kg	6010C
Magnesium		1940		264	mg/Kg	6010C
Manganese		79.3		3.97	mg/Kg	6010C
Nickel		16.0		2.64	mg/Kg	6010C
Potassium		745		264	mg/Kg	6010C
Selenium		1.85	J	2.64	mg/Kg	6010C
Vanadium		19.9		13.2	mg/Kg	6010C
Zinc		54.4		13.2	mg/Kg	6010C
Percent Solids		74.9		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 490-117419-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-117419-10	**END-500**					
Acetone		0.0388	J	0.0480	mg/Kg	8260C
2-Butanone (MEK)		0.00545	J	0.0480	mg/Kg	8260C
m,p-Xylene		0.000722	J	0.00384	mg/Kg	8260C
Aluminum		12800		24.0	mg/Kg	6010C
Arsenic		20.1		2.40	mg/Kg	6010C
Barium		60.5		2.40	mg/Kg	6010C
Beryllium		0.384	J	1.20	mg/Kg	6010C
Calcium		1870		240	mg/Kg	6010C
Chromium		16.7		1.20	mg/Kg	6010C
Cobalt		6.16		2.40	mg/Kg	6010C
Copper		28.1		2.40	mg/Kg	6010C
Iron		35800		48.0	mg/Kg	6010C
Lead		581		1.20	mg/Kg	6010C
Magnesium		2570		240	mg/Kg	6010C
Manganese		164		3.60	mg/Kg	6010C
Nickel		21.4		2.40	mg/Kg	6010C
Potassium		889		240	mg/Kg	6010C
Selenium		4.13		2.40	mg/Kg	6010C
Vanadium		19.4		12.0	mg/Kg	6010C
Zinc		59.1		12.0	mg/Kg	6010C
Percent Solids		81.3		0.1	%	Moisture
490-117419-11	**END-501**					
Carbon disulfide		0.0108		0.00482	mg/Kg	8260C
Aluminum		10700		24.8	mg/Kg	6010C
Arsenic		11.0		2.48	mg/Kg	6010C
Barium		41.7		2.48	mg/Kg	6010C
Beryllium		0.422	J	1.24	mg/Kg	6010C
Cadmium		0.174	J	1.24	mg/Kg	6010C
Calcium		787		248	mg/Kg	6010C
Chromium		15.4		1.24	mg/Kg	6010C
Cobalt		6.73		2.48	mg/Kg	6010C
Copper		15.7		2.48	mg/Kg	6010C
Iron		21300		49.7	mg/Kg	6010C
Lead		22.0		1.24	mg/Kg	6010C
Magnesium		2660		248	mg/Kg	6010C
Manganese		122		3.72	mg/Kg	6010C
Nickel		20.5		2.48	mg/Kg	6010C
Potassium		764		248	mg/Kg	6010C
Selenium		2.14	J	2.48	mg/Kg	6010C
Vanadium		16.6		12.4	mg/Kg	6010C
Zinc		52.3		12.4	mg/Kg	6010C
Percent Solids		81.4		0.1	%	Moisture

METHOD SUMMARY

Client: Roux Associates, Inc. Job Number: 490-117419-1

Description	Lab Location	Method	Preparation Method
Matrix: Soil			
Volatile Organic Compounds by GC/MS	TAL NSH	SW846 8260C	
Closed System Purge & Trap/Field Methanol	TAL NSH		SW846 5035A
Volatile Organic Compounds by GC/MS	TAL NSH	SW846 8260C	
Closed System Purge and Trap	TAL NSH		SW846 5035A
Semivolatile Organic Compounds (GC/MS)	TAL NSH	SW846 8270D	
Ultrasonic Extraction	TAL NSH		SW846 3550C
Metals (ICP)	TAL NSH	SW846 6010C	
Preparation, Metals, Microwave Assisted	TAL NSH		SW846 3051A
Mercury (CVAA)	TAL NSH	SW846 7471B	
Preparation, Mercury	TAL NSH		SW846 7471B
Percent Moisture	TAL NSH	EPA Moisture	

Lab References:

TAL NSH = TestAmerica Nashville

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Roux Associates, Inc. Job Number: 490-117419-1

Method	Analyst	Analyst ID
SW846 8260C	Anthony, Ian M	IMA
SW846 8260C	Chumongkolrat, Naphat	NC
SW846 8270D	Chaiyasit, Thitima 1	T1C
SW846 6010C	Fly, Robyn D	RDF
SW846 6010C	Keller, Kris	KKK
SW846 7471B	Smith, Lauren C	LCS
EPA Moisture	Ali, Blnd A	BAA

SAMPLE SUMMARY

Client: Roux Associates, Inc. Job Number: 490-117419-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
490-117419-1	END-506	Soil	12/01/2016 0900	12/05/2016 0815
490-117419-2	END-509	Soil	12/01/2016 1300	12/05/2016 0815
490-117419-3TB	Trip Blank	Soil	12/01/2016 0101	12/05/2016 0815
490-117419-4	END-507	Soil	12/01/2016 0930	12/05/2016 0815
490-117419-5	END-508	Soil	12/01/2016 1100	12/05/2016 0815
490-117419-6	END-505	Soil	12/01/2016 0845	12/05/2016 0815
490-117419-7	END-504	Soil	11/30/2016 1515	12/05/2016 0815
490-117419-8	END-502	Soil	11/30/2016 1110	12/05/2016 0815
490-117419-9	END-503	Soil	11/30/2016 1230	12/05/2016 0815
490-117419-10	END-500	Soil	11/30/2016 1030	12/05/2016 0815
490-117419-11	END-501	Soil	11/30/2016 1100	12/05/2016 0815

SAMPLE RESULTS

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-506

Lab Sample ID: 490-117419-1 Date Sampled: 12/01/2016 0900
Client Matrix: Soil % Moisture: 23.3 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393437	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-392117	Lab File ID:	121116-10.D
Dilution:	1.0			Initial Weight/Volume:	3.528 g
Analysis Date:	12/11/2016 1923			Final Weight/Volume:	5.0 mL
Prep Date:	12/01/2016 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.134		0.0155	0.0924
Benzene		0.0105		0.00124	0.00370
Bromochloromethane		0.00102	U	0.00102	0.00370
Bromodichloromethane		0.00102	U	0.00102	0.00370
Bromoform		0.00102	U	0.00102	0.00370
Bromomethane		0.00222	U	0.00222	0.00370
2-Butanone (MEK)		0.0376	J	0.00943	0.0924
Carbon disulfide		0.00665	U	0.00665	0.00924
Carbon tetrachloride		0.00124	U	0.00124	0.00370
Chlorobenzene		0.00124	U	0.00124	0.00370
Chloroethane		0.00351	U	0.00351	0.00924
Chloroform		0.00124	U	0.00124	0.00370
Chloromethane		0.00124	U	0.00124	0.00370
cis-1,2-Dichloroethene		0.00124	U	0.00124	0.00370
cis-1,3-Dichloropropene		0.00124	U	0.00124	0.00370
Dibromochloromethane		0.000628	U	0.000628	0.00370
1,2-Dibromoethane		0.00185	U	0.00185	0.00370
Dichlorodifluoromethane		0.00185	U	0.00185	0.00370
1,1-Dichloroethane		0.00124	U	0.00124	0.00370
1,2-Dichloroethane		0.00124	U	0.00124	0.00370
1,1-Dichloroethene		0.00105	U	0.00105	0.00370
1,2-Dichloropropane		0.00174	U	0.00174	0.00370
1,3-Dichloropropane		0.00174	U	0.00174	0.00370
2,2-Dichloropropane		0.00124	U	0.00124	0.00370
1,1-Dichloropropene		0.000943	U	0.000943	0.00370
Ethylbenzene		0.00341	J	0.00124	0.00370
2-Hexanone		0.0309	U	0.0309	0.0924
Iodomethane		0.0124	U	0.0124	0.0370
Isopropylbenzene		0.000787	J	0.000758	0.00370
Methylene bromide		0.00104	U	0.00104	0.00370
Methylene Chloride		0.00159	U	0.00159	0.0185
4-Methyl-2-pentanone (MIBK)		0.00351	U	0.00351	0.0924
Methyl tert butyl ether		0.00177	U	0.00177	0.00370
m,p-Xylene		0.0216		0.00104	0.00739
o-Xylene		0.00618		0.00124	0.00370
Styrene		0.00203	U	0.00203	0.00370
1,1,1,2-Tetrachloroethane		0.00124	U	0.00124	0.00370
Tetrachloroethene		0.00135	U	0.00135	0.00370
Toluene		0.0143		0.00137	0.00370
trans-1,2-Dichloroethene		0.00124	U	0.00124	0.00370
trans-1,3-Dichloropropene		0.00124	U	0.00124	0.00370
1,1,1-Trichloroethane		0.00170	U	0.00170	0.00370
1,1,2-Trichloroethane		0.00259	U	0.00259	0.00924
Trichloroethene		0.00177	U	0.00177	0.00370
Trichlorofluoromethane		0.00185	U	0.00185	0.00370
Vinyl acetate		0.00813	U	0.00813	0.0370

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-506

Lab Sample ID: 490-117419-1 Date Sampled: 12/01/2016 0900
Client Matrix: Soil % Moisture: 23.3 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393437	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-392117	Lab File ID:	121116-10.D
Dilution:	1.0			Initial Weight/Volume:	3.528 g
Analysis Date:	12/11/2016 1923			Final Weight/Volume:	5.0 mL
Prep Date:	12/01/2016 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl chloride		0.00203	U	0.00203	0.00370
Xylenes (total)		0.0278		0.00227	0.0111

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	134	*	70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
Toluene-d8 (Surr)	108		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-506

Lab Sample ID: 490-117419-1 Date Sampled: 12/01/2016 0900
Client Matrix: Soil % Moisture: 23.3 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393437	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-392117	Lab File ID:	121116-10.D
Dilution:	1.0			Initial Weight/Volume:	3.528 g
Analysis Date:	12/11/2016 1923			Final Weight/Volume:	5.0 mL
Prep Date:	12/01/2016 0800				

Tentatively Identified Compounds **Number TIC's Found: 8**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
110-54-3	Hexane	3.25	0.0213	
110-82-7	Cyclohexane	4.13	0.0151	J
589-34-4	Hexane, 3-methyl-	4.20	0.0101	J N
872-56-0	Isopropylcyclobutane	4.44	0.0147	J N
142-82-5	n-Heptane	4.49	0.0208	
108-87-2	Methylcyclohexane	4.94	0.0448	
	Unknown	6.37	0.0161	J
1678-91-7	Cyclohexane, ethyl-	6.45	0.0385	J N

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-506

Lab Sample ID: 490-117419-1 Date Sampled: 12/01/2016 0900
Client Matrix: Soil % Moisture: 23.3 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393795	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-392114	Lab File ID:	121316-13.D
Dilution:	1.0			Initial Weight/Volume:	5.23 g
Analysis Date:	12/13/2016 1517			Final Weight/Volume:	5.0 mL
Prep Date:	12/01/2016 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0558	U	0.0558	0.155
1,2-Dibromo-3-chloropropane		0.0543	U	0.0543	0.388
1,2-Dichlorobenzene		0.0264	U	0.0264	0.155
1,3-Dichlorobenzene		0.0527	U	0.0527	0.155
1,4-Dichlorobenzene		0.0729	U	0.0729	0.155
Hexachlorobutadiene		0.0853	U	0.0853	0.388
Naphthalene		0.132	U	0.132	0.388
n-Butylbenzene		0.0776	U	0.0776	0.155
N-Propylbenzene		0.0527	U	0.0527	0.155
o-Chlorotoluene		0.0713	U	0.0713	0.155
p-Chlorotoluene		0.0651	U	0.0651	0.155
p-Isopropyltoluene		0.0527	U	0.0527	0.155
sec-Butylbenzene		0.0527	U	0.0527	0.155
tert-Butylbenzene		0.0776	U	0.0776	0.155
1,1,2,2-Tetrachloroethane		0.0776	U *	0.0776	0.155
1,2,3-Trichlorobenzene		0.0295	U	0.0295	0.155
1,2,4-Trichlorobenzene		0.0527	U	0.0527	0.155
1,2,3-Trichloropropane		0.0434	U	0.0434	0.155
1,2,4-Trimethylbenzene		0.0776	U	0.0776	0.155
1,3,5-Trimethylbenzene		0.0993	J	0.0589	0.155

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	119		70 - 130
1,2-Dichloroethane-d4 (Surr)	131	*	70 - 130
Toluene-d8 (Surr)	91		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-509

Lab Sample ID: 490-117419-2 Date Sampled: 12/01/2016 1300
Client Matrix: Soil % Moisture: 27.6 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393437	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-392117	Lab File ID:	121116-11.D
Dilution:	1.0			Initial Weight/Volume:	4.366 g
Analysis Date:	12/11/2016 1954			Final Weight/Volume:	5.0 mL
Prep Date:	12/01/2016 1200				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0133	U	0.0133	0.0790
Benzene		0.216		0.00106	0.00316
Bromochloromethane		0.000869	U	0.000869	0.00316
Bromodichloromethane		0.000869	U	0.000869	0.00316
Bromomethane		0.00190	U	0.00190	0.00316
2-Butanone (MEK)		0.0436	J	0.00806	0.0790
Carbon disulfide		0.0205		0.00569	0.00790
Carbon tetrachloride		0.00106	U	0.00106	0.00316
Chloroethane		0.00300	U	0.00300	0.00790
Chloroform		0.00106	U	0.00106	0.00316
Chloromethane		0.00106	U	0.00106	0.00316
cis-1,2-Dichloroethene		0.00106	U	0.00106	0.00316
Dichlorodifluoromethane		0.00158	U	0.00158	0.00316
1,1-Dichloroethane		0.00106	U	0.00106	0.00316
1,2-Dichloroethane		0.00106	U	0.00106	0.00316
1,1-Dichloroethene		0.000901	U	0.000901	0.00316
1,2-Dichloropropane		0.00149	U	0.00149	0.00316
2,2-Dichloropropane		0.00106	U	0.00106	0.00316
1,1-Dichloropropene		0.000806	U	0.000806	0.00316
Iodomethane		0.0106	U	0.0106	0.0316
Methylene bromide		0.000885	U	0.000885	0.00316
Methylene Chloride		0.00136	U	0.00136	0.0158
Methyl tert butyl ether		0.00152	U	0.00152	0.00316
trans-1,2-Dichloroethene		0.00106	U	0.00106	0.00316
1,1,1-Trichloroethane		0.00145	U	0.00145	0.00316
Trichloroethene		0.00152	U	0.00152	0.00316
Trichlorofluoromethane		0.00158	U	0.00158	0.00316
Vinyl acetate		0.00696	U	0.00696	0.0316
Vinyl chloride		0.00174	U	0.00174	0.00316

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	0	*	70 - 130
Dibromofluoromethane (Surr)	104		70 - 130
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
Toluene-d8 (Surr)	1512	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-509

Lab Sample ID: 490-117419-2 Date Sampled: 12/01/2016 1300
Client Matrix: Soil % Moisture: 27.6 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393437	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-392117	Lab File ID:	121116-11.D
Dilution:	1.0			Initial Weight/Volume:	4.366 g
Analysis Date:	12/11/2016 1954			Final Weight/Volume:	5.0 mL
Prep Date:	12/01/2016 1200				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
110-54-3	Hexane	3.25	2.33	E
110-82-7	Cyclohexane	4.13	3.48	E
142-82-5	n-Heptane	4.49	3.30	E
108-87-2	Methylcyclohexane	4.97	6.97	E
592-27-8	Heptane, 2-methyl-	5.38	0.246	J N
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	6.00	0.205	J N
2051-30-1	Octane, 2,6-dimethyl-	7.61	0.151	J N
592-27-8	Heptane, 2-methyl-	7.97	0.414	J N
141-93-5	Benzene, 1,3-diethyl-	9.45	0.855	J N
527-84-4	Benzene, 1-methyl-2-(1-methylethyl)-	9.74	0.322	J N

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-509

Lab Sample ID: 490-117419-2 Date Sampled: 12/01/2016 1300
Client Matrix: Soil % Moisture: 27.6 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393795	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-392114	Lab File ID:	121316-14.D
Dilution:	1.0			Initial Weight/Volume:	5.211 g
Analysis Date:	12/13/2016 1546			Final Weight/Volume:	5.0 mL
Prep Date:	12/01/2016 1200				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0614	U	0.0614	0.170
Bromoform		0.0477	U	0.0477	0.170
Chlorobenzene		0.0580	U	0.0580	0.170
cis-1,3-Dichloropropene		0.0580	U	0.0580	0.170
Dibromochloromethane		0.0290	U *	0.0290	0.170
1,2-Dibromo-3-chloropropane		0.0597	U	0.0597	0.426
1,2-Dibromoethane		0.0852	U	0.0852	0.170
1,2-Dichlorobenzene		0.0290	U	0.0290	0.170
1,3-Dichlorobenzene		0.0580	U	0.0580	0.170
1,4-Dichlorobenzene		0.0801	U	0.0801	0.170
1,3-Dichloropropane		0.0801	U	0.0801	0.170
Ethylbenzene		2.98		0.0580	0.170
Hexachlorobutadiene		0.0938	U	0.0938	0.426
2-Hexanone		1.43	U	1.43	4.26
Isopropylbenzene		1.11		0.0358	0.170
4-Methyl-2-pentanone (MIBK)		1.45	U	1.45	4.26
m,p-Xylene		11.8		0.0477	0.256
Naphthalene		5.00		0.145	0.426
n-Butylbenzene		0.0852	U	0.0852	0.170
N-Propylbenzene		1.88		0.0580	0.170
o-Chlorotoluene		0.0784	U	0.0784	0.170
o-Xylene		2.30		0.0580	0.170
p-Chlorotoluene		0.0716	U	0.0716	0.170
p-Isopropyltoluene		2.85		0.0580	0.170
sec-Butylbenzene		0.0580	U	0.0580	0.170
Styrene		0.0938	U	0.0938	0.170
tert-Butylbenzene		0.142	J	0.0852	0.170
1,1,1,2-Tetrachloroethane		0.0580	U	0.0580	0.170
1,1,2,2-Tetrachloroethane		0.0852	U *	0.0852	0.170
Tetrachloroethene		0.0580	U	0.0580	0.170
Toluene		3.56		0.0631	0.170
trans-1,3-Dichloropropene		0.0580	U	0.0580	0.170
1,2,3-Trichlorobenzene		0.0324	U	0.0324	0.170
1,2,4-Trichlorobenzene		0.0580	U	0.0580	0.170
1,1,2-Trichloroethane		0.119	U	0.119	0.426
1,2,3-Trichloropropane		0.0477	U	0.0477	0.170
1,2,4-Trimethylbenzene		28.3		0.0852	0.170
1,3,5-Trimethylbenzene		8.08		0.0648	0.170
Xylenes (total)		14.1		0.106	0.256

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	130		70 - 130
Dibromofluoromethane (Surr)	89		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	107		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: **Trip Blank**

Lab Sample ID: 490-117419-3TB Date Sampled: 12/01/2016 0101
Client Matrix: Soil Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393437	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-392117	Lab File ID:	121116-09.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Analysis Date:	12/11/2016 1852			Final Weight/Volume:	5.0 mL
Prep Date:	12/01/2016 0001				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.00840	U	0.00840	0.0500
Benzene		0.000670	U	0.000670	0.00200
Bromobenzene		0.000720	U	0.000720	0.00200
Bromochloromethane		0.000550	U	0.000550	0.00200
Bromodichloromethane		0.000550	U	0.000550	0.00200
Bromoform		0.000550	U	0.000550	0.00200
Bromomethane		0.00120	U	0.00120	0.00200
2-Butanone (MEK)		0.00510	U	0.00510	0.0500
Carbon disulfide		0.00360	U	0.00360	0.00500
Carbon tetrachloride		0.000670	U	0.000670	0.00200
Chlorobenzene		0.000670	U	0.000670	0.00200
Chloroethane		0.00190	U	0.00190	0.00500
Chloroform		0.000670	U	0.000670	0.00200
Chloromethane		0.000670	U	0.000670	0.00200
cis-1,2-Dichloroethene		0.000670	U	0.000670	0.00200
cis-1,3-Dichloropropene		0.000670	U	0.000670	0.00200
Dibromochloromethane		0.000340	U	0.000340	0.00200
1,2-Dibromo-3-chloropropane		0.000700	U	0.000700	0.00500
1,2-Dibromoethane		0.00100	U	0.00100	0.00200
1,2-Dichlorobenzene		0.000340	U	0.000340	0.00200
1,3-Dichlorobenzene		0.000670	U	0.000670	0.00200
1,4-Dichlorobenzene		0.000670	U	0.000670	0.00200
Dichlorodifluoromethane		0.00100	U	0.00100	0.00200
1,1-Dichloroethane		0.000670	U	0.000670	0.00200
1,2-Dichloroethane		0.000670	U	0.000670	0.00200
1,1-Dichloroethene		0.000570	U	0.000570	0.00200
1,2-Dichloropropane		0.000940	U	0.000940	0.00200
1,3-Dichloropropane		0.000940	U	0.000940	0.00200
2,2-Dichloropropane		0.000670	U	0.000670	0.00200
1,1-Dichloropropene		0.000510	U	0.000510	0.00200
Ethylbenzene		0.000670	U	0.000670	0.00200
Hexachlorobutadiene		0.00114	U	0.00114	0.00500
2-Hexanone		0.0167	U	0.0167	0.0500
Iodomethane		0.00670	U	0.00670	0.0200
Isopropylbenzene		0.000410	U	0.000410	0.00200
Methylene bromide		0.000560	U	0.000560	0.00200
Methylene Chloride		0.000860	U	0.000860	0.0100
4-Methyl-2-pentanone (MIBK)		0.00190	U	0.00190	0.0500
Methyl tert butyl ether		0.000960	U	0.000960	0.00200
m,p-Xylene		0.000560	U	0.000560	0.00400
Naphthalene		0.00170	U	0.00170	0.00500
n-Butylbenzene		0.000980	U	0.000980	0.00200
N-Propylbenzene		0.000670	U	0.000670	0.00200
o-Chlorotoluene		0.000890	U	0.000890	0.00200
o-Xylene		0.000670	U	0.000670	0.00200
p-Chlorotoluene		0.000840	U	0.000840	0.00200

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: **Trip Blank**

Lab Sample ID: 490-117419-3TB Date Sampled: 12/01/2016 0101
Client Matrix: Soil Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393437	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-392117	Lab File ID:	121116-09.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Analysis Date:	12/11/2016 1852			Final Weight/Volume:	5.0 mL
Prep Date:	12/01/2016 0001				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000670	U	0.000670	0.00200
sec-Butylbenzene		0.000670	U	0.000670	0.00200
Styrene		0.00110	U	0.00110	0.00200
tert-Butylbenzene		0.000900	U	0.000900	0.00200
1,1,1,2-Tetrachloroethane		0.000670	U	0.000670	0.00200
1,1,2,2-Tetrachloroethane		0.00100	U	0.00100	0.00200
Tetrachloroethene		0.000730	U	0.000730	0.00200
Toluene		0.000740	U	0.000740	0.00200
trans-1,2-Dichloroethene		0.000670	U	0.000670	0.00200
trans-1,3-Dichloropropene		0.000670	U	0.000670	0.00200
1,2,3-Trichlorobenzene		0.000380	U	0.000380	0.00200
1,2,4-Trichlorobenzene		0.000670	U	0.000670	0.00200
1,1,1-Trichloroethane		0.000920	U	0.000920	0.00200
1,1,2-Trichloroethane		0.00140	U	0.00140	0.00500
Trichloroethene		0.000960	U	0.000960	0.00200
Trichlorofluoromethane		0.00100	U	0.00100	0.00200
1,2,3-Trichloropropane		0.000550	U	0.000550	0.00200
1,2,4-Trimethylbenzene		0.00100	U	0.00100	0.00200
1,3,5-Trimethylbenzene		0.000750	U	0.000750	0.00200
Vinyl acetate		0.00440	U	0.00440	0.0200
Vinyl chloride		0.00110	U	0.00110	0.00200
Xylenes (total)		0.00123	U	0.00123	0.00600

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: **Trip Blank**

Lab Sample ID: 490-117419-3TB Date Sampled: 12/01/2016 0101
Client Matrix: Soil Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393437	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-392117	Lab File ID:	121116-09.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Analysis Date:	12/11/2016 1852			Final Weight/Volume:	5.0 mL
Prep Date:	12/01/2016 0001				

Tentatively Identified Compounds **Number TIC's Found: 0**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-507

Lab Sample ID: 490-117419-4 Date Sampled: 12/01/2016 0930
Client Matrix: Soil % Moisture: 25.8 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393795	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-392114	Lab File ID:	121316-15.D
Dilution:	1.0			Initial Weight/Volume:	4.781 g
Analysis Date:	12/13/2016 1616			Final Weight/Volume:	5.0 mL
Prep Date:	12/01/2016 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		3.51	U	3.51	4.39
Benzene		0.554		0.0597	0.176
Bromobenzene		0.0632	U	0.0632	0.176
Bromochloromethane		0.0492	U	0.0492	0.176
Bromodichloromethane		0.0492	U	0.0492	0.176
Bromoform		0.0492	U	0.0492	0.176
Bromomethane		0.105	U	0.105	0.176
2-Butanone (MEK)		0.457	U	0.457	4.39
Carbon disulfide		0.316	U	0.316	0.439
Carbon tetrachloride		0.0597	U	0.0597	0.176
Chlorobenzene		0.0597	U	0.0597	0.176
Chloroethane		0.167	U	0.167	0.439
Chloroform		0.0812	J	0.0597	0.176
Chloromethane		0.0597	U	0.0597	0.176
cis-1,2-Dichloroethene		0.0597	U	0.0597	0.176
cis-1,3-Dichloropropene		0.0597	U	0.0597	0.176
Dibromochloromethane		0.0298	U *	0.0298	0.176
1,2-Dibromo-3-chloropropane		0.0615	U	0.0615	0.439
1,2-Dibromoethane		0.0878	U	0.0878	0.176
1,2-Dichlorobenzene		0.0298	U	0.0298	0.176
1,3-Dichlorobenzene		0.0597	U	0.0597	0.176
1,4-Dichlorobenzene		0.0825	U	0.0825	0.176
Dichlorodifluoromethane		0.0878	U *	0.0878	0.176
1,1-Dichloroethane		0.0597	U	0.0597	0.176
1,2-Dichloroethane		0.0597	U	0.0597	0.176
1,1-Dichloroethene		0.0509	U	0.0509	0.176
1,2-Dichloropropane		0.0825	U	0.0825	0.176
1,3-Dichloropropane		0.0825	U	0.0825	0.176
2,2-Dichloropropane		0.0597	U	0.0597	0.176
1,1-Dichloropropene		0.0457	U	0.0457	0.176
Ethylbenzene		0.267		0.0597	0.176
Hexachlorobutadiene		0.0966	U	0.0966	0.439
2-Hexanone		1.47	U	1.47	4.39
Iodomethane		0.597	U	0.597	1.76
Isopropylbenzene		0.402		0.0369	0.176
Methylene bromide		0.0492	U	0.0492	0.176
Methylene Chloride		0.0878	U	0.0878	0.878
4-Methyl-2-pentanone (MIBK)		1.49	U	1.49	4.39
Methyl tert butyl ether		0.0878	U	0.0878	0.176
m,p-Xylene		0.695		0.0492	0.263
Naphthalene		1.32		0.149	0.439
n-Butylbenzene		0.0878	U	0.0878	0.176
N-Propylbenzene		0.609		0.0597	0.176
o-Chlorotoluene		0.0808	U	0.0808	0.176
o-Xylene		0.340		0.0597	0.176
p-Chlorotoluene		0.0737	U	0.0737	0.176

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-507

Lab Sample ID: 490-117419-4 Date Sampled: 12/01/2016 0930
Client Matrix: Soil % Moisture: 25.8 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393795	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-392114	Lab File ID:	121316-15.D
Dilution:	1.0			Initial Weight/Volume:	4.781 g
Analysis Date:	12/13/2016 1616			Final Weight/Volume:	5.0 mL
Prep Date:	12/01/2016 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.105	J	0.0597	0.176
sec-Butylbenzene		0.188		0.0597	0.176
Styrene		0.0966	U	0.0966	0.176
tert-Butylbenzene		0.0878	U	0.0878	0.176
1,1,1,2-Tetrachloroethane		0.0597	U	0.0597	0.176
1,1,2,2-Tetrachloroethane		0.0878	U *	0.0878	0.176
Tetrachloroethene		0.0597	U	0.0597	0.176
Toluene		0.509		0.0650	0.176
trans-1,2-Dichloroethene		0.0597	U	0.0597	0.176
trans-1,3-Dichloropropene		0.0597	U	0.0597	0.176
1,2,3-Trichlorobenzene		0.0334	U	0.0334	0.176
1,2,4-Trichlorobenzene		0.0597	U	0.0597	0.176
1,1,1-Trichloroethane		0.0808	U	0.0808	0.176
1,1,2-Trichloroethane		0.123	U	0.123	0.439
Trichloroethene		0.0878	U	0.0878	0.176
Trichlorofluoromethane		0.0878	U	0.0878	0.176
1,2,3-Trichloropropane		0.0492	U	0.0492	0.176
1,2,4-Trimethylbenzene		0.509		0.0878	0.176
1,3,5-Trimethylbenzene		0.453		0.0667	0.176
Vinyl acetate		0.386	U	0.386	1.76
Vinyl chloride		0.0966	U	0.0966	0.176
Xylenes (total)		1.04		0.109	0.263

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	105		70 - 130
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-507

Lab Sample ID: 490-117419-4 Date Sampled: 12/01/2016 0930
Client Matrix: Soil % Moisture: 25.8 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393795	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-392114	Lab File ID:	121316-15.D
Dilution:	1.0			Initial Weight/Volume:	4.781 g
Analysis Date:	12/13/2016 1616			Final Weight/Volume:	5.0 mL
Prep Date:	12/01/2016 0830				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
2039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	10.36	3.87	J N
4489-84-3	Benzene, (3-methyl-2-butenyl)-	10.76	4.80	J N
17059-48-2	1H-Indene, 2,3-dihydro-1,6-dimethyl-	10.93	6.67	J N
1746-23-2	Benzene, 1-(1,1-dimethylethyl)-4-ethenyl-	11.37	4.58	J N
6682-71-9	1H-Indene, 2,3-dihydro-4,7-dimethyl-	11.52	6.45	J N
91-57-6	2-Methylnaphthalene	12.22	6.13	B
6682-06-0	1H-Indene, 2,3-dihydro-4,5,7-trimethyl-	12.28	4.61	J N
90-12-0	1-Methylnaphthalene	12.39	27.2	* B
1127-76-0	Naphthalene, 1-ethyl-	13.17	7.88	J N
581-40-8	Naphthalene, 2,3-dimethyl-	13.25	4.26	J N

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-508

Lab Sample ID: 490-117419-5 Date Sampled: 12/01/2016 1100
Client Matrix: Soil % Moisture: 24.7 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393795	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-392114	Lab File ID:	121316-16.D
Dilution:	1.0			Initial Weight/Volume:	4.08 g
Analysis Date:	12/13/2016 1645			Final Weight/Volume:	5.0 mL
Prep Date:	12/01/2016 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		3.91	U	3.91	4.89
Benzene		0.412		0.0665	0.196
Bromobenzene		0.0704	U	0.0704	0.196
Bromochloromethane		0.0548	U	0.0548	0.196
Bromodichloromethane		0.0548	U	0.0548	0.196
Bromoform		0.0548	U	0.0548	0.196
Bromomethane		0.117	U	0.117	0.196
2-Butanone (MEK)		0.509	U	0.509	4.89
Carbon disulfide		0.352	U	0.352	0.489
Carbon tetrachloride		0.0665	U	0.0665	0.196
Chlorobenzene		0.0665	U	0.0665	0.196
Chloroethane		0.186	U	0.186	0.489
Chloroform		0.0665	U	0.0665	0.196
Chloromethane		0.0665	U	0.0665	0.196
cis-1,2-Dichloroethene		0.0665	U	0.0665	0.196
cis-1,3-Dichloropropene		0.0665	U	0.0665	0.196
Dibromochloromethane		0.0333	U *	0.0333	0.196
1,2-Dibromo-3-chloropropane		0.0685	U	0.0685	0.489
1,2-Dibromoethane		0.0978	U	0.0978	0.196
1,2-Dichlorobenzene		0.0333	U	0.0333	0.196
1,3-Dichlorobenzene		0.0665	U	0.0665	0.196
1,4-Dichlorobenzene		0.0920	U	0.0920	0.196
Dichlorodifluoromethane		0.0978	U *	0.0978	0.196
1,1-Dichloroethane		0.0665	U	0.0665	0.196
1,2-Dichloroethane		0.0665	U	0.0665	0.196
1,1-Dichloroethene		0.0567	U	0.0567	0.196
1,2-Dichloropropane		0.0920	U	0.0920	0.196
1,3-Dichloropropane		0.0920	U	0.0920	0.196
2,2-Dichloropropane		0.0665	U	0.0665	0.196
1,1-Dichloropropene		0.0509	U	0.0509	0.196
Ethylbenzene		0.392		0.0665	0.196
Hexachlorobutadiene		0.108	U	0.108	0.489
2-Hexanone		1.64	U	1.64	4.89
Iodomethane		0.665	U	0.665	1.96
Isopropylbenzene		0.288		0.0411	0.196
Methylene bromide		0.0548	U	0.0548	0.196
Methylene Chloride		0.0978	U	0.0978	0.978
4-Methyl-2-pentanone (MIBK)		1.66	U	1.66	4.89
Methyl tert butyl ether		0.0978	U	0.0978	0.196
m,p-Xylene		2.21		0.0548	0.294
Naphthalene		1.40		0.166	0.489
n-Butylbenzene		0.0978	U	0.0978	0.196
N-Propylbenzene		0.404		0.0665	0.196
o-Chlorotoluene		0.0900	U	0.0900	0.196
o-Xylene		0.496		0.0665	0.196
p-Chlorotoluene		0.0822	U	0.0822	0.196

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-508

Lab Sample ID: 490-117419-5 Date Sampled: 12/01/2016 1100
Client Matrix: Soil % Moisture: 24.7 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393795	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-392114	Lab File ID:	121316-16.D
Dilution:	1.0			Initial Weight/Volume:	4.08 g
Analysis Date:	12/13/2016 1645			Final Weight/Volume:	5.0 mL
Prep Date:	12/01/2016 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.221		0.0665	0.196
sec-Butylbenzene		0.104	J	0.0665	0.196
Styrene		0.108	U	0.108	0.196
tert-Butylbenzene		0.0978	U	0.0978	0.196
1,1,1,2-Tetrachloroethane		0.0665	U	0.0665	0.196
1,1,2,2-Tetrachloroethane		0.0978	U *	0.0978	0.196
Tetrachloroethene		0.0665	U	0.0665	0.196
Toluene		0.575		0.0724	0.196
trans-1,2-Dichloroethene		0.0665	U	0.0665	0.196
trans-1,3-Dichloropropene		0.0665	U	0.0665	0.196
1,2,3-Trichlorobenzene		0.0372	U	0.0372	0.196
1,2,4-Trichlorobenzene		0.0665	U	0.0665	0.196
1,1,1-Trichloroethane		0.0900	U	0.0900	0.196
1,1,2-Trichloroethane		0.137	U	0.137	0.489
Trichloroethene		0.0978	U	0.0978	0.196
Trichlorofluoromethane		0.0978	U	0.0978	0.196
1,2,3-Trichloropropane		0.0548	U	0.0548	0.196
1,2,4-Trimethylbenzene		1.65		0.0978	0.196
1,3,5-Trimethylbenzene		0.998		0.0744	0.196
Vinyl acetate		0.430	U	0.430	1.96
Vinyl chloride		0.108	U	0.108	0.196
Xylenes (total)		2.71		0.121	0.294

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-508

Lab Sample ID: 490-117419-5 Date Sampled: 12/01/2016 1100
Client Matrix: Soil % Moisture: 24.7 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393795	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-392114	Lab File ID:	121316-16.D
Dilution:	1.0			Initial Weight/Volume:	4.08 g
Analysis Date:	12/13/2016 1645			Final Weight/Volume:	5.0 mL
Prep Date:	12/01/2016 1000				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
78-83-1	Isobutyl alcohol	3.76	56.4	
140-88-5	Ethyl acrylate	4.49	9.05	*
108-87-2	Methylcyclohexane	4.49	4.77	
1758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	9.00	2.63	J N
3454-07-7	Benzene, 1-ethenyl-4-ethyl-	10.36	2.95	J N
102-25-0	Benzene, 1,3,5-triethyl-	10.60	3.79	J N
2245-38-7	Naphthalene, 1,6,7-trimethyl-	11.50	6.02	J N
91-57-6	2-Methylnaphthalene	12.23	4.39	B
90-12-0	1-Methylnaphthalene	12.40	7.23	* B
571-61-9	Naphthalene, 1,5-dimethyl-	13.25	3.63	J N

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-505

Lab Sample ID: 490-117419-6 Date Sampled: 12/01/2016 0845
Client Matrix: Soil % Moisture: 21.3 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393437	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-392117	Lab File ID:	121116-14.D
Dilution:	1.0			Initial Weight/Volume:	3.158 g
Analysis Date:	12/11/2016 2125			Final Weight/Volume:	5.0 mL
Prep Date:	12/01/2016 0745				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.231		0.0169	0.101
Benzene		0.0876		0.00135	0.00402
Bromochloromethane		0.00111	U	0.00111	0.00402
Bromodichloromethane		0.00111	U	0.00111	0.00402
Bromoform		0.00111	U	0.00111	0.00402
Bromomethane		0.00241	U	0.00241	0.00402
2-Butanone (MEK)		0.0427	J	0.0103	0.101
Carbon disulfide		0.00724	U	0.00724	0.0101
Carbon tetrachloride		0.00135	U	0.00135	0.00402
Chlorobenzene		0.00135	U	0.00135	0.00402
Chloroethane		0.00382	U	0.00382	0.0101
Chloroform		0.00135	U	0.00135	0.00402
Chloromethane		0.00135	U	0.00135	0.00402
cis-1,2-Dichloroethene		0.00135	U	0.00135	0.00402
cis-1,3-Dichloropropene		0.00135	U	0.00135	0.00402
Dibromochloromethane		0.000684	U	0.000684	0.00402
1,2-Dibromoethane		0.00201	U	0.00201	0.00402
Dichlorodifluoromethane		0.00201	U	0.00201	0.00402
1,1-Dichloroethane		0.00135	U	0.00135	0.00402
1,2-Dichloroethane		0.00135	U	0.00135	0.00402
1,1-Dichloroethene		0.00115	U	0.00115	0.00402
1,2-Dichloropropane		0.00189	U	0.00189	0.00402
1,3-Dichloropropane		0.00189	U	0.00189	0.00402
2,2-Dichloropropane		0.00135	U	0.00135	0.00402
1,1-Dichloropropene		0.00103	U	0.00103	0.00402
Ethylbenzene		0.00565		0.00135	0.00402
2-Hexanone		0.0336	U	0.0336	0.101
Iodomethane		0.0135	U	0.0135	0.0402
Isopropylbenzene		0.000885	J	0.000825	0.00402
Methylene bromide		0.00113	U	0.00113	0.00402
Methylene Chloride		0.00173	U	0.00173	0.0201
4-Methyl-2-pentanone (MIBK)		0.00382	U	0.00382	0.101
Methyl tert butyl ether		0.00193	U	0.00193	0.00402
m,p-Xylene		0.0513		0.00113	0.00805
o-Xylene		0.0214		0.00135	0.00402
Styrene		0.00221	U	0.00221	0.00402
1,1,1,2-Tetrachloroethane		0.00135	U	0.00135	0.00402
Tetrachloroethene		0.00147	U	0.00147	0.00402
Toluene		0.134		0.00149	0.00402
trans-1,2-Dichloroethene		0.00135	U	0.00135	0.00402
trans-1,3-Dichloropropene		0.00135	U	0.00135	0.00402
1,1,1-Trichloroethane		0.00185	U	0.00185	0.00402
1,1,2-Trichloroethane		0.00282	U	0.00282	0.0101
Trichloroethene		0.00193	U	0.00193	0.00402
Trichlorofluoromethane		0.00201	U	0.00201	0.00402
Vinyl acetate		0.00885	U	0.00885	0.0402

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-505

Lab Sample ID: 490-117419-6 Date Sampled: 12/01/2016 0845
Client Matrix: Soil % Moisture: 21.3 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393437	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-392117	Lab File ID:	121116-14.D
Dilution:	1.0			Initial Weight/Volume:	3.158 g
Analysis Date:	12/11/2016 2125			Final Weight/Volume:	5.0 mL
Prep Date:	12/01/2016 0745				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl chloride		0.00221	U	0.00221	0.00402
Xylenes (total)		0.0727		0.00248	0.0121

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	150	*	70 - 130
Dibromofluoromethane (Surr)	104		70 - 130
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
Toluene-d8 (Surr)	128		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-505

Lab Sample ID: 490-117419-6 Date Sampled: 12/01/2016 0845
Client Matrix: Soil % Moisture: 21.3 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393437	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-392117	Lab File ID:	121116-14.D
Dilution:	1.0			Initial Weight/Volume:	3.158 g
Analysis Date:	12/11/2016 2125			Final Weight/Volume:	5.0 mL
Prep Date:	12/01/2016 0745				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
109-66-0	Pentane	2.30	0.150	J N
75-65-0	2-Methyl-2-propanol	2.97	0.168	
110-54-3	Hexane	3.25	0.0738	
75-85-4	t-Amyl alcohol	4.31	0.161	
1120-21-4	Undecane	9.50	0.0510	J N
112-40-3	Dodecane	10.73	0.0952	J N
629-50-5	Tridecane	11.84	0.0503	J N
264-09-5	Benzocycloheptatriene	12.76	0.0712	J N
581-42-0	Naphthalene, 2,6-dimethyl-	13.80	0.0904	J N
575-43-9	Naphthalene, 1,6-dimethyl-	14.08	0.103	J N

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-505

Lab Sample ID: 490-117419-6 Date Sampled: 12/01/2016 0845
Client Matrix: Soil % Moisture: 21.3 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393795	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-392114	Lab File ID:	121316-17.D
Dilution:	1.0			Initial Weight/Volume:	3.153 g
Analysis Date:	12/13/2016 1715			Final Weight/Volume:	5.0 mL
Prep Date:	12/01/2016 0745				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0823	U	0.0823	0.229
1,2-Dibromo-3-chloropropane		0.0800	U	0.0800	0.572
1,2-Dichlorobenzene		0.0389	U	0.0389	0.229
1,3-Dichlorobenzene		0.0778	U	0.0778	0.229
1,4-Dichlorobenzene		0.107	U	0.107	0.229
Hexachlorobutadiene		0.126	U	0.126	0.572
Naphthalene		0.194	U	0.194	0.572
n-Butylbenzene		0.114	U	0.114	0.229
N-Propylbenzene		0.0778	U	0.0778	0.229
o-Chlorotoluene		0.105	U	0.105	0.229
p-Chlorotoluene		0.0960	U	0.0960	0.229
p-Isopropyltoluene		0.0778	U	0.0778	0.229
sec-Butylbenzene		0.0778	U	0.0778	0.229
tert-Butylbenzene		0.114	U	0.114	0.229
1,1,2,2-Tetrachloroethane		0.114	U *	0.114	0.229
1,2,3-Trichlorobenzene		0.0434	U	0.0434	0.229
1,2,4-Trichlorobenzene		0.0778	U	0.0778	0.229
1,2,3-Trichloropropane		0.0640	U	0.0640	0.229
1,2,4-Trimethylbenzene		0.305		0.114	0.229
1,3,5-Trimethylbenzene		0.413		0.0869	0.229

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	109		70 - 130
1,2-Dichloroethane-d4 (Surr)	119		70 - 130
Toluene-d8 (Surr)	92		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-504

Lab Sample ID: 490-117419-7 Date Sampled: 11/30/2016 1515
Client Matrix: Soil % Moisture: 15.4 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393437	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-392117	Lab File ID:	121116-15.D
Dilution:	1.0			Initial Weight/Volume:	4.276 g
Analysis Date:	12/11/2016 2156			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1415				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.151		0.0116	0.0691
Benzene		0.0141		0.000926	0.00276
Bromochloromethane		0.000760	U	0.000760	0.00276
Bromodichloromethane		0.000760	U	0.000760	0.00276
Bromoform		0.000760	U	0.000760	0.00276
Bromomethane		0.00166	U	0.00166	0.00276
2-Butanone (MEK)		0.0289	J	0.00705	0.0691
Carbon disulfide		0.00498	U	0.00498	0.00691
Carbon tetrachloride		0.000926	U	0.000926	0.00276
Chlorobenzene		0.000926	U	0.000926	0.00276
Chloroethane		0.00263	U	0.00263	0.00691
Chloroform		0.000926	U	0.000926	0.00276
Chloromethane		0.000926	U	0.000926	0.00276
cis-1,2-Dichloroethene		0.000926	U	0.000926	0.00276
cis-1,3-Dichloropropene		0.000926	U	0.000926	0.00276
Dibromochloromethane		0.000470	U	0.000470	0.00276
1,2-Dibromoethane		0.00138	U	0.00138	0.00276
Dichlorodifluoromethane		0.00138	U	0.00138	0.00276
1,1-Dichloroethane		0.000926	U	0.000926	0.00276
1,2-Dichloroethane		0.000926	U	0.000926	0.00276
1,1-Dichloroethene		0.000788	U	0.000788	0.00276
1,2-Dichloropropane		0.00130	U	0.00130	0.00276
1,3-Dichloropropane		0.00130	U	0.00130	0.00276
2,2-Dichloropropane		0.000926	U	0.000926	0.00276
1,1-Dichloropropene		0.000705	U	0.000705	0.00276
Ethylbenzene		0.00209	J	0.000926	0.00276
2-Hexanone		0.0231	U	0.0231	0.0691
Iodomethane		0.00926	U	0.00926	0.0276
Isopropylbenzene		0.000567	U	0.000567	0.00276
Methylene bromide		0.000774	U	0.000774	0.00276
Methylene Chloride		0.00119	U	0.00119	0.0138
4-Methyl-2-pentanone (MIBK)		0.00263	U	0.00263	0.0691
Methyl tert butyl ether		0.00133	U	0.00133	0.00276
m,p-Xylene		0.0167		0.000774	0.00553
o-Xylene		0.00670		0.000926	0.00276
Styrene		0.00152	U	0.00152	0.00276
1,1,1,2-Tetrachloroethane		0.000926	U	0.000926	0.00276
Tetrachloroethene		0.00101	U	0.00101	0.00276
Toluene		0.0194		0.00102	0.00276
trans-1,2-Dichloroethene		0.000926	U	0.000926	0.00276
trans-1,3-Dichloropropene		0.000926	U	0.000926	0.00276
1,1,1-Trichloroethane		0.00127	U	0.00127	0.00276
1,1,2-Trichloroethane		0.00194	U	0.00194	0.00691
Trichloroethene		0.00133	U	0.00133	0.00276
Trichlorofluoromethane		0.00138	U	0.00138	0.00276
Vinyl acetate		0.00608	U	0.00608	0.0276

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-504

Lab Sample ID: 490-117419-7 Date Sampled: 11/30/2016 1515
Client Matrix: Soil % Moisture: 15.4 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393437	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-392117	Lab File ID:	121116-15.D
Dilution:	1.0			Initial Weight/Volume:	4.276 g
Analysis Date:	12/11/2016 2156			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1415				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl chloride		0.00152	U	0.00152	0.00276
Xylenes (total)		0.0234		0.00170	0.00829

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	133	*	70 - 130
Dibromofluoromethane (Surr)	103		70 - 130
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
Toluene-d8 (Surr)	113		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-504

Lab Sample ID: 490-117419-7 Date Sampled: 11/30/2016 1515
Client Matrix: Soil % Moisture: 15.4 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393437	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-392117	Lab File ID:	121116-15.D
Dilution:	1.0			Initial Weight/Volume:	4.276 g
Analysis Date:	12/11/2016 2156			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1415				

Tentatively Identified Compounds **Number TIC's Found: 9**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
75-85-4	t-Amyl alcohol	4.32	0.0213	J
4516-69-2	Cyclopentane, 1,1,3-trimethyl-	4.91	0.0346	J N
590-66-9	Cyclohexane, 1,1-dimethyl-	5.82	0.0365	J N
70688-47-0	1,4-Dimethyl-1-cyclohexene	6.37	0.0311	J N
2234-75-5	Cyclohexane, 1,2,4-trimethyl-	6.68	0.0186	J N
493-02-7	Naphthalene, decahydro-, trans-	9.41	0.0405	J N
1120-21-4	Undecane	9.50	0.0592	J N
112-40-3	Dodecane	10.73	0.0599	J N
629-50-5	Tridecane	11.83	0.0730	J N

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-504

Lab Sample ID: 490-117419-7 Date Sampled: 11/30/2016 1515
Client Matrix: Soil % Moisture: 15.4 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393795	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-392114	Lab File ID:	121316-18.D
Dilution:	1.0			Initial Weight/Volume:	4.146 g
Analysis Date:	12/13/2016 1744			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1415				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0579	U	0.0579	0.161
1,2-Dibromo-3-chloropropane		0.0563	U	0.0563	0.402
1,2-Dichlorobenzene		0.0273	U	0.0273	0.161
1,3-Dichlorobenzene		0.0547	U	0.0547	0.161
1,4-Dichlorobenzene		0.0756	U	0.0756	0.161
Hexachlorobutadiene		0.0884	U	0.0884	0.402
Naphthalene		0.296	J	0.137	0.402
n-Butylbenzene		0.0804	U	0.0804	0.161
N-Propylbenzene		0.0793	J	0.0547	0.161
o-Chlorotoluene		0.0740	U	0.0740	0.161
p-Chlorotoluene		0.0675	U	0.0675	0.161
p-Isopropyltoluene		0.0547	U	0.0547	0.161
sec-Butylbenzene		0.0547	U	0.0547	0.161
tert-Butylbenzene		0.0804	U	0.0804	0.161
1,1,2,2-Tetrachloroethane		0.0804	U *	0.0804	0.161
1,2,3-Trichlorobenzene		0.0306	U	0.0306	0.161
1,2,4-Trichlorobenzene		0.0547	U	0.0547	0.161
1,2,3-Trichloropropane		0.0450	U	0.0450	0.161
1,2,4-Trimethylbenzene		0.643		0.0804	0.161
1,3,5-Trimethylbenzene		0.858		0.0611	0.161

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	108		70 - 130
1,2-Dichloroethane-d4 (Surr)	114		70 - 130
Toluene-d8 (Surr)	94		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-502

Lab Sample ID: 490-117419-8 Date Sampled: 11/30/2016 1110
Client Matrix: Soil % Moisture: 18.4 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393437	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-392117	Lab File ID:	121116-16.D
Dilution:	1.0			Initial Weight/Volume:	5.262 g
Analysis Date:	12/11/2016 2227			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1010				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0612		0.00978	0.0582
Benzene		0.00322		0.000780	0.00233
Bromochloromethane		0.000640	U	0.000640	0.00233
Bromodichloromethane		0.000640	U	0.000640	0.00233
Bromoform		0.000640	U	0.000640	0.00233
Bromomethane		0.00140	U	0.00140	0.00233
2-Butanone (MEK)		0.00892	J	0.00594	0.0582
Carbon disulfide		0.00419	U	0.00419	0.00582
Carbon tetrachloride		0.000780	U	0.000780	0.00233
Chlorobenzene		0.000780	U	0.000780	0.00233
Chloroethane		0.00221	U	0.00221	0.00582
Chloroform		0.000780	U	0.000780	0.00233
Chloromethane		0.000780	U	0.000780	0.00233
cis-1,2-Dichloroethene		0.000780	U	0.000780	0.00233
cis-1,3-Dichloropropene		0.000780	U	0.000780	0.00233
Dibromochloromethane		0.000396	U	0.000396	0.00233
1,2-Dibromoethane		0.00116	U	0.00116	0.00233
Dichlorodifluoromethane		0.00116	U	0.00116	0.00233
1,1-Dichloroethane		0.000780	U	0.000780	0.00233
1,2-Dichloroethane		0.000780	U	0.000780	0.00233
1,1-Dichloroethene		0.000664	U	0.000664	0.00233
1,2-Dichloropropane		0.00109	U	0.00109	0.00233
1,3-Dichloropropane		0.00109	U	0.00109	0.00233
2,2-Dichloropropane		0.000780	U	0.000780	0.00233
1,1-Dichloropropene		0.000594	U	0.000594	0.00233
Ethylbenzene		0.000780	U	0.000780	0.00233
2-Hexanone		0.0194	U	0.0194	0.0582
Iodomethane		0.00780	U	0.00780	0.0233
Isopropylbenzene		0.000477	U	0.000477	0.00233
Methylene bromide		0.000652	U	0.000652	0.00233
Methylene Chloride		0.00100	U	0.00100	0.0116
4-Methyl-2-pentanone (MIBK)		0.00221	U	0.00221	0.0582
Methyl tert butyl ether		0.00112	U	0.00112	0.00233
m,p-Xylene		0.00486		0.000652	0.00466
o-Xylene		0.00134	J	0.000780	0.00233
Styrene		0.00128	U	0.00128	0.00233
1,1,1,2-Tetrachloroethane		0.000780	U	0.000780	0.00233
Tetrachloroethene		0.000850	U	0.000850	0.00233
Toluene		0.00386		0.000861	0.00233
trans-1,2-Dichloroethene		0.000780	U	0.000780	0.00233
trans-1,3-Dichloropropene		0.000780	U	0.000780	0.00233
1,1,1-Trichloroethane		0.00107	U	0.00107	0.00233
1,1,2-Trichloroethane		0.00163	U	0.00163	0.00582
Trichloroethene		0.00112	U	0.00112	0.00233
Trichlorofluoromethane		0.00116	U	0.00116	0.00233
Vinyl acetate		0.00512	U	0.00512	0.0233

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-502

Lab Sample ID: 490-117419-8 Date Sampled: 11/30/2016 1110
Client Matrix: Soil % Moisture: 18.4 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393437	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-392117	Lab File ID:	121116-16.D
Dilution:	1.0			Initial Weight/Volume:	5.262 g
Analysis Date:	12/11/2016 2227			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1010				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl chloride		0.00128	U	0.00128	0.00233
Xylenes (total)		0.00620	J	0.00143	0.00698

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	123	*	70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	119		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-502

Lab Sample ID: 490-117419-8 Date Sampled: 11/30/2016 1110
Client Matrix: Soil % Moisture: 18.4 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393437	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-392117	Lab File ID:	121116-16.D
Dilution:	1.0			Initial Weight/Volume:	5.262 g
Analysis Date:	12/11/2016 2227			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1010				

Tentatively Identified Compounds **Number TIC's Found: 4**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
67-63-0	Isopropyl alcohol	2.71	0.0177	U
110-54-3	Hexane	3.26	0.00353	J
142-82-5	n-Heptane	4.49	0.00283	J
108-87-2	Methylcyclohexane	4.94	0.00186	J

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-502

Lab Sample ID: 490-117419-8 Date Sampled: 11/30/2016 1110
Client Matrix: Soil % Moisture: 18.4 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393795	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-392114	Lab File ID:	121316-19.D
Dilution:	1.0			Initial Weight/Volume:	4.814 g
Analysis Date:	12/13/2016 1814			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1010				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0539	U	0.0539	0.150
1,2-Dibromo-3-chloropropane		0.0524	U	0.0524	0.374
1,2-Dichlorobenzene		0.0255	U	0.0255	0.150
1,3-Dichlorobenzene		0.0509	U	0.0509	0.150
1,4-Dichlorobenzene		0.0704	U	0.0704	0.150
Hexachlorobutadiene		0.0824	U	0.0824	0.374
Naphthalene		0.162	J	0.127	0.374
n-Butylbenzene		0.0749	U	0.0749	0.150
N-Propylbenzene		0.0592	J	0.0509	0.150
o-Chlorotoluene		0.0689	U	0.0689	0.150
p-Chlorotoluene		0.0629	U	0.0629	0.150
p-Isopropyltoluene		0.0509	U	0.0509	0.150
sec-Butylbenzene		0.0509	U	0.0509	0.150
tert-Butylbenzene		0.0749	U	0.0749	0.150
1,1,2,2-Tetrachloroethane		0.0749	U *	0.0749	0.150
1,2,3-Trichlorobenzene		0.0285	U	0.0285	0.150
1,2,4-Trichlorobenzene		0.0509	U	0.0509	0.150
1,2,3-Trichloropropane		0.0419	U	0.0419	0.150
1,2,4-Trimethylbenzene		0.380		0.0749	0.150
1,3,5-Trimethylbenzene		0.287		0.0569	0.150

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	117		70 - 130
1,2-Dichloroethane-d4 (Surr)	125		70 - 130
Toluene-d8 (Surr)	93		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-503

Lab Sample ID: 490-117419-9 Date Sampled: 11/30/2016 1230
Client Matrix: Soil % Moisture: 25.1 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393437	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-392117	Lab File ID:	121116-17.D
Dilution:	1.0			Initial Weight/Volume:	4.659 g
Analysis Date:	12/11/2016 2258			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.140		0.0120	0.0716
Benzene		0.0288		0.000960	0.00287
Bromochloromethane		0.000788	U	0.000788	0.00287
Bromodichloromethane		0.000788	U	0.000788	0.00287
Bromomethane		0.00172	U	0.00172	0.00287
2-Butanone (MEK)		0.0234	J	0.00731	0.0716
Carbon disulfide		0.00767		0.00516	0.00716
Carbon tetrachloride		0.000960	U	0.000960	0.00287
Chloroethane		0.00272	U	0.00272	0.00716
Chloroform		0.000960	U	0.000960	0.00287
Chloromethane		0.000960	U	0.000960	0.00287
cis-1,2-Dichloroethene		0.000960	U	0.000960	0.00287
Dichlorodifluoromethane		0.00143	U	0.00143	0.00287
1,1-Dichloroethane		0.000960	U	0.000960	0.00287
1,2-Dichloroethane		0.000960	U	0.000960	0.00287
1,1-Dichloroethene		0.000817	U	0.000817	0.00287
1,2-Dichloropropane		0.00135	U	0.00135	0.00287
2,2-Dichloropropane		0.000960	U	0.000960	0.00287
1,1-Dichloropropene		0.000731	U	0.000731	0.00287
Iodomethane		0.00960	U	0.00960	0.0287
Methylene bromide		0.000802	U	0.000802	0.00287
Methylene Chloride		0.00123	U	0.00123	0.0143
Methyl tert butyl ether		0.00138	U	0.00138	0.00287
trans-1,2-Dichloroethene		0.000960	U	0.000960	0.00287
1,1,1-Trichloroethane		0.00132	U	0.00132	0.00287
Trichloroethene		0.00138	U	0.00138	0.00287
Trichlorofluoromethane		0.00143	U	0.00143	0.00287
Vinyl acetate		0.00630	U	0.00630	0.0287
Vinyl chloride		0.00158	U	0.00158	0.00287

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	174	*	70 - 130
Dibromofluoromethane (Surr)	103		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
Toluene-d8 (Surr)	137	*	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-503

Lab Sample ID: 490-117419-9 Date Sampled: 11/30/2016 1230
Client Matrix: Soil % Moisture: 25.1 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393437	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-392117	Lab File ID:	121116-17.D
Dilution:	1.0			Initial Weight/Volume:	4.659 g
Analysis Date:	12/11/2016 2258			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1130				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
78-78-4	Butane, 2-methyl-	2.12	0.0887	J N
96-14-0	Pentane, 3-methyl-	3.08	0.0897	J N
822-50-4	Cyclopentane, 1,2-dimethyl-, trans-	4.45	0.0979	J N
108-87-2	Cyclohexane, methyl-	4.94	0.175	J N
2207-04-7	Cyclohexane, 1,4-dimethyl-, trans-	6.06	0.172	J N
3073-66-3	Cyclohexane, 1,1,3-trimethyl-	6.49	0.257	J N
2051-30-1	Octane, 2,6-dimethyl-	7.57	0.116	J N
493-02-7	Naphthalene, decahydro-, trans-	9.42	0.153	J N
2958-76-1	Naphthalene, decahydro-2-methyl-	10.07	0.100	J N
1000152-47-3	trans-Decalin, 2-methyl-	10.32	0.0873	J N

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-503

Lab Sample ID: 490-117419-9 Date Sampled: 11/30/2016 1230
Client Matrix: Soil % Moisture: 25.1 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393795	Instrument ID:	HP69
Prep Method:	5035A	Prep Batch:	490-392114	Lab File ID:	121316-20.D
Dilution:	1.0			Initial Weight/Volume:	4.792 g
Analysis Date:	12/13/2016 1843			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0622	U	0.0622	0.173
Bromoform		0.0484	U	0.0484	0.173
Chlorobenzene		0.0588	U	0.0588	0.173
cis-1,3-Dichloropropene		0.0588	U	0.0588	0.173
Dibromochloromethane		0.0294	U *	0.0294	0.173
1,2-Dibromo-3-chloropropane		0.0605	U	0.0605	0.432
1,2-Dibromoethane		0.0864	U	0.0864	0.173
1,2-Dichlorobenzene		0.0294	U	0.0294	0.173
1,3-Dichlorobenzene		0.0588	U	0.0588	0.173
1,4-Dichlorobenzene		0.0812	U	0.0812	0.173
1,3-Dichloropropane		0.0812	U	0.0812	0.173
Ethylbenzene		0.0962	J	0.0588	0.173
Hexachlorobutadiene		0.0951	U	0.0951	0.432
2-Hexanone		1.45	U	1.45	4.32
Isopropylbenzene		0.0363	U	0.0363	0.173
4-Methyl-2-pentanone (MIBK)		1.47	U	1.47	4.32
m,p-Xylene		0.351		0.0484	0.259
Naphthalene		0.147	U	0.147	0.432
n-Butylbenzene		0.0864	U	0.0864	0.173
N-Propylbenzene		0.0588	U	0.0588	0.173
o-Chlorotoluene		0.0795	U	0.0795	0.173
o-Xylene		0.0977	J	0.0588	0.173
p-Chlorotoluene		0.0726	U	0.0726	0.173
p-Isopropyltoluene		0.0588	U	0.0588	0.173
sec-Butylbenzene		0.0588	U	0.0588	0.173
Styrene		0.0951	U	0.0951	0.173
tert-Butylbenzene		0.0864	U	0.0864	0.173
1,1,1,2-Tetrachloroethane		0.0588	U	0.0588	0.173
1,1,2,2-Tetrachloroethane		0.0864	U *	0.0864	0.173
Tetrachloroethene		0.0588	U	0.0588	0.173
Toluene		0.279		0.0639	0.173
trans-1,3-Dichloropropene		0.0588	U	0.0588	0.173
1,2,3-Trichlorobenzene		0.0328	U	0.0328	0.173
1,2,4-Trichlorobenzene		0.0588	U	0.0588	0.173
1,1,2-Trichloroethane		0.121	U	0.121	0.432
1,2,3-Trichloropropane		0.0484	U	0.0484	0.173
1,2,4-Trimethylbenzene		0.142	J	0.0864	0.173
1,3,5-Trimethylbenzene		0.231		0.0657	0.173
Xylenes (total)		0.449		0.107	0.259

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	119		70 - 130
1,2-Dichloroethane-d4 (Surr)	122		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-500

Lab Sample ID: 490-117419-10 Date Sampled: 11/30/2016 1030
Client Matrix: Soil % Moisture: 18.7 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393437	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-392117	Lab File ID:	121116-18.D
Dilution:	1.0			Initial Weight/Volume:	6.403 g
Analysis Date:	12/11/2016 2329			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 0930				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0388	J	0.00807	0.0480
Benzene		0.000644	U	0.000644	0.00192
Bromobenzene		0.000692	U	0.000692	0.00192
Bromochloromethane		0.000528	U	0.000528	0.00192
Bromodichloromethane		0.000528	U	0.000528	0.00192
Bromoform		0.000528	U	0.000528	0.00192
Bromomethane		0.00115	U	0.00115	0.00192
2-Butanone (MEK)		0.00545	J	0.00490	0.0480
Carbon disulfide		0.00346	U	0.00346	0.00480
Carbon tetrachloride		0.000644	U	0.000644	0.00192
Chlorobenzene		0.000644	U	0.000644	0.00192
Chloroethane		0.00183	U	0.00183	0.00480
Chloroform		0.000644	U	0.000644	0.00192
Chloromethane		0.000644	U	0.000644	0.00192
cis-1,2-Dichloroethene		0.000644	U	0.000644	0.00192
cis-1,3-Dichloropropene		0.000644	U	0.000644	0.00192
Dibromochloromethane		0.000327	U	0.000327	0.00192
1,2-Dibromo-3-chloropropane		0.000673	U	0.000673	0.00480
1,2-Dibromoethane		0.000961	U	0.000961	0.00192
1,2-Dichlorobenzene		0.000327	U	0.000327	0.00192
1,3-Dichlorobenzene		0.000644	U	0.000644	0.00192
1,4-Dichlorobenzene		0.000644	U	0.000644	0.00192
Dichlorodifluoromethane		0.000961	U	0.000961	0.00192
1,1-Dichloroethane		0.000644	U	0.000644	0.00192
1,2-Dichloroethane		0.000644	U	0.000644	0.00192
1,1-Dichloroethene		0.000548	U	0.000548	0.00192
1,2-Dichloropropane		0.000903	U	0.000903	0.00192
1,3-Dichloropropane		0.000903	U	0.000903	0.00192
2,2-Dichloropropane		0.000644	U	0.000644	0.00192
1,1-Dichloropropene		0.000490	U	0.000490	0.00192
Ethylbenzene		0.000644	U	0.000644	0.00192
Hexachlorobutadiene		0.00110	U	0.00110	0.00480
2-Hexanone		0.0160	U	0.0160	0.0480
Iodomethane		0.00644	U	0.00644	0.0192
Isopropylbenzene		0.000394	U	0.000394	0.00192
Methylene bromide		0.000538	U	0.000538	0.00192
Methylene Chloride		0.000826	U	0.000826	0.00961
4-Methyl-2-pentanone (MIBK)		0.00183	U	0.00183	0.0480
Methyl tert butyl ether		0.000922	U	0.000922	0.00192
m,p-Xylene		0.000722	J	0.000538	0.00384
Naphthalene		0.00163	U	0.00163	0.00480
n-Butylbenzene		0.000942	U	0.000942	0.00192
N-Propylbenzene		0.000644	U	0.000644	0.00192
o-Chlorotoluene		0.000855	U	0.000855	0.00192
o-Xylene		0.000644	U	0.000644	0.00192
p-Chlorotoluene		0.000807	U	0.000807	0.00192

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-500

Lab Sample ID: 490-117419-10 Date Sampled: 11/30/2016 1030
Client Matrix: Soil % Moisture: 18.7 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393437	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-392117	Lab File ID:	121116-18.D
Dilution:	1.0			Initial Weight/Volume:	6.403 g
Analysis Date:	12/11/2016 2329			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 0930				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000644	U	0.000644	0.00192
sec-Butylbenzene		0.000644	U	0.000644	0.00192
Styrene		0.00106	U	0.00106	0.00192
tert-Butylbenzene		0.000865	U	0.000865	0.00192
1,1,1,2-Tetrachloroethane		0.000644	U	0.000644	0.00192
1,1,2,2-Tetrachloroethane		0.000961	U	0.000961	0.00192
Tetrachloroethene		0.000701	U	0.000701	0.00192
Toluene		0.000711	U	0.000711	0.00192
trans-1,2-Dichloroethene		0.000644	U	0.000644	0.00192
trans-1,3-Dichloropropene		0.000644	U	0.000644	0.00192
1,2,3-Trichlorobenzene		0.000365	U	0.000365	0.00192
1,2,4-Trichlorobenzene		0.000644	U	0.000644	0.00192
1,1,1-Trichloroethane		0.000884	U	0.000884	0.00192
1,1,2-Trichloroethane		0.00135	U	0.00135	0.00480
Trichloroethene		0.000922	U	0.000922	0.00192
Trichlorofluoromethane		0.000961	U	0.000961	0.00192
1,2,3-Trichloropropane		0.000528	U	0.000528	0.00192
1,2,4-Trimethylbenzene		0.000961	U	0.000961	0.00192
1,3,5-Trimethylbenzene		0.000721	U	0.000721	0.00192
Vinyl acetate		0.00423	U	0.00423	0.0192
Vinyl chloride		0.00106	U	0.00106	0.00192
Xylenes (total)		0.00118	U	0.00118	0.00576

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-500

Lab Sample ID: 490-117419-10 Date Sampled: 11/30/2016 1030
Client Matrix: Soil % Moisture: 18.7 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393437	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-392117	Lab File ID:	121116-18.D
Dilution:	1.0			Initial Weight/Volume:	6.403 g
Analysis Date:	12/11/2016 2329			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 0930				

Tentatively Identified Compounds **Number TIC's Found: 0**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-501

Lab Sample ID: 490-117419-11 Date Sampled: 11/30/2016 1100
Client Matrix: Soil % Moisture: 18.6 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393437	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-392117	Lab File ID:	121116-21.D
Dilution:	1.0			Initial Weight/Volume:	6.371 g
Analysis Date:	12/12/2016 0101			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.00810	U	0.00810	0.0482
Benzene		0.000646	U	0.000646	0.00193
Bromobenzene		0.000694	U	0.000694	0.00193
Bromochloromethane		0.000530	U	0.000530	0.00193
Bromodichloromethane		0.000530	U	0.000530	0.00193
Bromoform		0.000530	U	0.000530	0.00193
Bromomethane		0.00116	U	0.00116	0.00193
2-Butanone (MEK)		0.00492	U	0.00492	0.0482
Carbon disulfide		0.0108		0.00347	0.00482
Carbon tetrachloride		0.000646	U	0.000646	0.00193
Chlorobenzene		0.000646	U	0.000646	0.00193
Chloroethane		0.00183	U	0.00183	0.00482
Chloroform		0.000646	U	0.000646	0.00193
Chloromethane		0.000646	U	0.000646	0.00193
cis-1,2-Dichloroethene		0.000646	U	0.000646	0.00193
cis-1,3-Dichloropropene		0.000646	U	0.000646	0.00193
Dibromochloromethane		0.000328	U	0.000328	0.00193
1,2-Dibromo-3-chloropropane		0.000675	U	0.000675	0.00482
1,2-Dibromoethane		0.000964	U	0.000964	0.00193
1,2-Dichlorobenzene		0.000328	U	0.000328	0.00193
1,3-Dichlorobenzene		0.000646	U	0.000646	0.00193
1,4-Dichlorobenzene		0.000646	U	0.000646	0.00193
Dichlorodifluoromethane		0.000964	U	0.000964	0.00193
1,1-Dichloroethane		0.000646	U	0.000646	0.00193
1,2-Dichloroethane		0.000646	U	0.000646	0.00193
1,1-Dichloroethene		0.000550	U	0.000550	0.00193
1,2-Dichloropropane		0.000907	U	0.000907	0.00193
1,3-Dichloropropane		0.000907	U	0.000907	0.00193
2,2-Dichloropropane		0.000646	U	0.000646	0.00193
1,1-Dichloropropene		0.000492	U	0.000492	0.00193
Ethylbenzene		0.000646	U	0.000646	0.00193
Hexachlorobutadiene		0.00110	U	0.00110	0.00482
2-Hexanone		0.0161	U	0.0161	0.0482
Iodomethane		0.00646	U	0.00646	0.0193
Isopropylbenzene		0.000395	U	0.000395	0.00193
Methylene bromide		0.000540	U	0.000540	0.00193
Methylene Chloride		0.000829	U	0.000829	0.00964
4-Methyl-2-pentanone (MIBK)		0.00183	U	0.00183	0.0482
Methyl tert butyl ether		0.000926	U	0.000926	0.00193
m,p-Xylene		0.000540	U	0.000540	0.00386
Naphthalene		0.00164	U	0.00164	0.00482
n-Butylbenzene		0.000945	U	0.000945	0.00193
N-Propylbenzene		0.000646	U	0.000646	0.00193
o-Chlorotoluene		0.000858	U	0.000858	0.00193
o-Xylene		0.000646	U	0.000646	0.00193
p-Chlorotoluene		0.000810	U	0.000810	0.00193

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-501

Lab Sample ID: 490-117419-11 Date Sampled: 11/30/2016 1100
Client Matrix: Soil % Moisture: 18.6 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393437	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-392117	Lab File ID:	121116-21.D
Dilution:	1.0			Initial Weight/Volume:	6.371 g
Analysis Date:	12/12/2016 0101			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000646	U	0.000646	0.00193
sec-Butylbenzene		0.000646	U	0.000646	0.00193
Styrene		0.00106	U	0.00106	0.00193
tert-Butylbenzene		0.000868	U	0.000868	0.00193
1,1,1,2-Tetrachloroethane		0.000646	U	0.000646	0.00193
1,1,2,2-Tetrachloroethane		0.000964	U	0.000964	0.00193
Tetrachloroethene		0.000704	U	0.000704	0.00193
Toluene		0.000714	U	0.000714	0.00193
trans-1,2-Dichloroethene		0.000646	U	0.000646	0.00193
trans-1,3-Dichloropropene		0.000646	U	0.000646	0.00193
1,2,3-Trichlorobenzene		0.000366	U	0.000366	0.00193
1,2,4-Trichlorobenzene		0.000646	U	0.000646	0.00193
1,1,1-Trichloroethane		0.000887	U	0.000887	0.00193
1,1,2-Trichloroethane		0.00135	U	0.00135	0.00482
Trichloroethene		0.000926	U	0.000926	0.00193
Trichlorofluoromethane		0.000964	U	0.000964	0.00193
1,2,3-Trichloropropane		0.000530	U	0.000530	0.00193
1,2,4-Trimethylbenzene		0.000964	U	0.000964	0.00193
1,3,5-Trimethylbenzene		0.000723	U	0.000723	0.00193
Vinyl acetate		0.00424	U	0.00424	0.0193
Vinyl chloride		0.00106	U	0.00106	0.00193
Xylenes (total)		0.00119	U	0.00119	0.00579

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-501

Lab Sample ID: 490-117419-11 Date Sampled: 11/30/2016 1100
Client Matrix: Soil % Moisture: 18.6 Date Received: 12/05/2016 0815

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-393437	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-392117	Lab File ID:	121116-21.D
Dilution:	1.0			Initial Weight/Volume:	6.371 g
Analysis Date:	12/12/2016 0101			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1000				

Tentatively Identified Compounds **Number TIC's Found: 7**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
79-46-9	2-Nitropropane	5.33	0.00476	J
7094-27-1	1,1,4-Trimethylcyclohexane	6.53	0.0264	J N
50876-32-9	Cyclohexane, 1,1,3,5-tetramethyl-, cis-	7.11	0.0335	J N
	Unknown	7.40	0.0533	J
1000152-47-3	trans-Decalin, 2-methyl-	10.07	0.0706	J N
2958-75-0	1-Methyldecahydronaphthalene	10.32	0.0497	J N
1000111-72-1	trans,trans-1,6-Dimethylspiro[4.5]decane	10.79	0.0393	J N

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-506

Lab Sample ID: 490-117419-1 Date Sampled: 12/01/2016 0900
Client Matrix: Soil % Moisture: 23.3 Date Received: 12/05/2016 0815

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-393298	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-392774	Lab File ID:	120916-022.D
Dilution:	5.0			Initial Weight/Volume:	30.21 g
Analysis Date:	12/10/2016 0103			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1104			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.207	U	0.207	0.434
Acenaphthylene		0.188	U	0.188	0.434
Aniline		1.64	U	1.64	4.34
Anthracene		0.188	U	0.188	0.434
Benzidine		1.32	U	1.32	2.16
Benzo(a)anthracene		0.194	U	0.194	0.434
Benzo(a)pyrene		0.175	U	0.175	0.434
Benzo(b)fluoranthene		0.181	U	0.181	0.434
Benzo(g,h,i)perylene		0.496		0.214	0.434
Benzoic acid		0.389	U	0.389	2.16
Benzo(k)fluoranthene		0.175	U	0.175	0.434
Benzyl alcohol		1.26	U	1.26	2.16
Bis(2-chloroethoxy)methane		1.30	U	1.30	2.16
Bis(2-chloroethyl)ether		1.38	U	1.38	2.16
bis (2-chloroisopropyl) ether		1.28	U	1.28	2.16
Bis(2-ethylhexyl)phthalate		1.34	U	1.34	2.16
4-Bromophenyl phenyl ether		1.33	U	1.33	2.16
Butyl benzyl phthalate		1.39	U	1.39	2.16
Carbazole		1.34	U	1.34	2.16
4-Chloroaniline		1.47	U	1.47	2.16
4-Chloro-3-methylphenol		1.09	U	1.09	2.16
2-Chloronaphthalene		1.35	U	1.35	2.16
2-Chlorophenol		1.24	U	1.24	2.16
4-Chlorophenyl phenyl ether		1.30	U	1.30	2.16
Chrysene		0.240	U	0.240	0.434
Dibenzo(a,h)anthracene		0.207	U	0.207	0.434
Dibenzofuran		1.36	U	1.36	2.16
1,2-Dichlorobenzene		1.23	U	1.23	2.16
1,3-Dichlorobenzene		1.23	U	1.23	2.16
1,4-Dichlorobenzene		1.27	U	1.27	2.16
3,3'-Dichlorobenzidine		1.32	U	1.32	4.34
2,4-Dichlorophenol		1.13	U	1.13	2.16
Diethyl phthalate		1.37	U	1.37	2.16
2,4-Dimethylphenol		2.17	U	2.17	4.34
Dimethyl phthalate		1.34	U	1.34	2.16
Di-n-butyl phthalate		1.37	U	1.37	2.16
4,6-Dinitro-o-cresol		1.48	U	1.48	2.16
2,4-Dinitrophenol		1.63	U	1.63	2.16
2,4-Dinitrotoluene		1.35	U	1.35	2.16
2,6-Dinitrotoluene		1.44	U	1.44	2.16
Di-n-octyl phthalate		1.15	U	1.15	2.16
1,2-Diphenylhydrazine (as Azobenzene)		1.52	U	1.52	2.16
Fluoranthene		0.220	U	0.220	0.434
Fluorene		0.188	U	0.188	0.434
Hexachlorobenzene		1.62	U	1.62	2.16
Hexachlorobutadiene		1.08	U	1.08	2.16

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-506

Lab Sample ID: 490-117419-1 Date Sampled: 12/01/2016 0900
Client Matrix: Soil % Moisture: 23.3 Date Received: 12/05/2016 0815

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-393298	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-392774	Lab File ID:	120916-022.D
Dilution:	5.0			Initial Weight/Volume:	30.21 g
Analysis Date:	12/10/2016 0103			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1104			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.971	U	0.971	2.16
Hexachloroethane		1.17	U	1.17	2.16
Ideno(1,2,3-cd)pyrene		0.188	U	0.188	0.434
Isophorone		1.22	U	1.22	2.16
1-Methylnaphthalene		0.181	U	0.181	0.434
2-Methylnaphthalene		0.168	U	0.168	0.434
Naphthalene		0.188	U	0.188	0.434
2-Nitroaniline		1.34	U	1.34	2.16
3-Nitroaniline		1.49	U	1.49	4.34
4-Nitroaniline		1.54	U	1.54	4.34
Nitrobenzene		1.30	U	1.30	2.16
2-Nitrophenol		1.57	U	1.57	2.16
4-Nitrophenol		2.47	U	2.47	4.34
N-Nitrosodimethylamine		0.130	U	0.130	2.16
N-Nitrosodi-n-propylamine		1.26	U	1.26	2.16
N-Nitrosodiphenylamine		0.343	U	0.343	2.16
Pentachlorophenol		1.72	U	1.72	4.34
Phenanthrene		0.220	U	0.220	0.434
Phenol		1.31	U	1.31	2.16
Pyrene		0.220	U	0.220	0.434
Pyridine		1.29	U	1.29	4.34
1,2,4-Trichlorobenzene		1.17	U	1.17	2.16
2,4,5-Trichlorophenol		1.41	U	1.41	2.16
2,4,6-Trichlorophenol		1.24	U	1.24	2.16

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	71		29 - 120
2-Fluorophenol (Surr)	68		10 - 120
Nitrobenzene-d5 (Surr)	70		27 - 120
Phenol-d5 (Surr)	72		10 - 120
Terphenyl-d14 (Surr)	75		13 - 120
2,4,6-Tribromophenol (Surr)	82		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-509

Lab Sample ID: 490-117419-2 Date Sampled: 12/01/2016 1300
Client Matrix: Soil % Moisture: 27.6 Date Received: 12/05/2016 0815

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-393298	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-392774	Lab File ID:	120916-023.D
Dilution:	5.0			Initial Weight/Volume:	30.18 g
Analysis Date:	12/10/2016 0122			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1104			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.220	U	0.220	0.460
Acenaphthylene		0.199	U	0.199	0.460
Aniline		1.74	U	1.74	4.60
Anthracene		0.904		0.199	0.460
Benzidine		1.40	U	1.40	2.28
Benzo(a)anthracene		0.503		0.206	0.460
Benzo(a)pyrene		0.672		0.185	0.460
Benzo(b)fluoranthene		0.330	J	0.192	0.460
Benzo(g,h,i)perylene		1.26		0.226	0.460
Benzoic acid		0.412	U	0.412	2.28
Benzo(k)fluoranthene		0.185	U	0.185	0.460
Benzyl alcohol		1.33	U	1.33	2.28
Bis(2-chloroethoxy)methane		1.37	U	1.37	2.28
Bis(2-chloroethyl)ether		1.46	U	1.46	2.28
bis (2-chloroisopropyl) ether		1.36	U	1.36	2.28
Bis(2-ethylhexyl)phthalate		1.42	U	1.42	2.28
4-Bromophenyl phenyl ether		1.41	U	1.41	2.28
Butyl benzyl phthalate		1.47	U	1.47	2.28
Carbazole		1.42	U	1.42	2.28
4-Chloroaniline		1.56	U	1.56	2.28
4-Chloro-3-methylphenol		1.15	U	1.15	2.28
2-Chloronaphthalene		1.43	U	1.43	2.28
2-Chlorophenol		1.31	U	1.31	2.28
4-Chlorophenyl phenyl ether		1.38	U	1.38	2.28
Chrysene		0.775		0.254	0.460
Dibenzo(a,h)anthracene		0.220	U	0.220	0.460
Dibenzofuran		1.44	U	1.44	2.28
1,2-Dichlorobenzene		1.30	U	1.30	2.28
1,3-Dichlorobenzene		1.30	U	1.30	2.28
1,4-Dichlorobenzene		1.34	U	1.34	2.28
3,3'-Dichlorobenzidine		1.40	U	1.40	4.60
2,4-Dichlorophenol		1.20	U	1.20	2.28
Diethyl phthalate		1.45	U	1.45	2.28
2,4-Dimethylphenol		2.30	U	2.30	4.60
Dimethyl phthalate		1.42	U	1.42	2.28
Di-n-butyl phthalate		1.45	U	1.45	2.28
4,6-Dinitro-o-cresol		1.57	U	1.57	2.28
2,4-Dinitrophenol		1.72	U	1.72	2.28
2,4-Dinitrotoluene		1.43	U	1.43	2.28
2,6-Dinitrotoluene		1.53	U	1.53	2.28
Di-n-octyl phthalate		1.22	U	1.22	2.28
1,2-Diphenylhydrazine (as Azobenzene)		1.61	U	1.61	2.28
Fluoranthene		0.861		0.233	0.460
Fluorene		1.51		0.199	0.460
Hexachlorobenzene		1.72	U	1.72	2.28
Hexachlorobutadiene		1.15	U	1.15	2.28

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-509

Lab Sample ID: 490-117419-2 Date Sampled: 12/01/2016 1300
Client Matrix: Soil % Moisture: 27.6 Date Received: 12/05/2016 0815

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-393298	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-392774	Lab File ID:	120916-023.D
Dilution:	5.0			Initial Weight/Volume:	30.18 g
Analysis Date:	12/10/2016 0122			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1104			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		1.03	U	1.03	2.28
Hexachloroethane		1.24	U	1.24	2.28
Ideno(1,2,3-cd)pyrene		0.230	J	0.199	0.460
Isophorone		1.29	U	1.29	2.28
1-Methylnaphthalene		11.3		0.192	0.460
2-Methylnaphthalene		2.91		0.178	0.460
Naphthalene		1.34		0.199	0.460
2-Nitroaniline		1.42	U	1.42	2.28
3-Nitroaniline		1.58	U	1.58	4.60
4-Nitroaniline		1.63	U	1.63	4.60
Nitrobenzene		1.38	U	1.38	2.28
2-Nitrophenol		1.67	U	1.67	2.28
4-Nitrophenol		2.62	U	2.62	4.60
N-Nitrosodimethylamine		0.137	U	0.137	2.28
N-Nitrosodi-n-propylamine		1.33	U	1.33	2.28
N-Nitrosodiphenylamine		0.364	U	0.364	2.28
Pentachlorophenol		1.82	U	1.82	4.60
Phenanthrene		6.57		0.233	0.460
Phenol		1.39	U	1.39	2.28
Pyrene		6.37		0.233	0.460
Pyridine		1.37	U	1.37	4.60
1,2,4-Trichlorobenzene		1.24	U	1.24	2.28
2,4,5-Trichlorophenol		1.50	U	1.50	2.28
2,4,6-Trichlorophenol		1.32	U	1.32	2.28

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	83		29 - 120
2-Fluorophenol (Surr)	60		10 - 120
Nitrobenzene-d5 (Surr)	126	*	27 - 120
Phenol-d5 (Surr)	68		10 - 120
Terphenyl-d14 (Surr)	86		13 - 120
2,4,6-Tribromophenol (Surr)	85		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-507

Lab Sample ID: 490-117419-4 Date Sampled: 12/01/2016 0930
Client Matrix: Soil % Moisture: 25.8 Date Received: 12/05/2016 0815

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-393298	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-392774	Lab File ID:	120916-024.D
Dilution:	5.0			Initial Weight/Volume:	30.06 g
Analysis Date:	12/10/2016 0140			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1104			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.215	U	0.215	0.450
Acenaphthylene		0.195	U	0.195	0.450
Aniline		1.70	U	1.70	4.50
Anthracene		0.692		0.195	0.450
Benzidine		1.37	U	1.37	2.24
Benzo(a)anthracene		0.282	J	0.202	0.450
Benzo(a)pyrene		0.284	J	0.181	0.450
Benzo(b)fluoranthene		0.188	U	0.188	0.450
Benzo(g,h,i)perylene		0.250	J	0.222	0.450
Benzoic acid		0.403	U	0.403	2.24
Benzo(k)fluoranthene		0.181	U	0.181	0.450
Benzyl alcohol		1.30	U	1.30	2.24
Bis(2-chloroethoxy)methane		1.34	U	1.34	2.24
Bis(2-chloroethyl)ether		1.43	U	1.43	2.24
bis (2-chloroisopropyl) ether		1.33	U	1.33	2.24
Bis(2-ethylhexyl)phthalate		1.39	U	1.39	2.24
4-Bromophenyl phenyl ether		1.38	U	1.38	2.24
Butyl benzyl phthalate		1.45	U	1.45	2.24
Carbazole		1.39	U	1.39	2.24
4-Chloroaniline		1.53	U	1.53	2.24
4-Chloro-3-methylphenol		1.13	U	1.13	2.24
2-Chloronaphthalene		1.40	U	1.40	2.24
2-Chlorophenol		1.28	U	1.28	2.24
4-Chlorophenyl phenyl ether		1.35	U	1.35	2.24
Chrysene		0.830		0.249	0.450
Dibenzo(a,h)anthracene		0.215	U	0.215	0.450
Dibenzofuran		1.41	U	1.41	2.24
1,2-Dichlorobenzene		1.28	U	1.28	2.24
1,3-Dichlorobenzene		1.28	U	1.28	2.24
1,4-Dichlorobenzene		1.32	U	1.32	2.24
3,3'-Dichlorobenzidine		1.37	U	1.37	4.50
2,4-Dichlorophenol		1.18	U	1.18	2.24
Diethyl phthalate		1.43	U	1.43	2.24
2,4-Dimethylphenol		2.25	U	2.25	4.50
Dimethyl phthalate		1.39	U	1.39	2.24
Di-n-butyl phthalate		1.42	U	1.42	2.24
4,6-Dinitro-o-cresol		1.54	U	1.54	2.24
2,4-Dinitrophenol		1.69	U	1.69	2.24
2,4-Dinitrotoluene		1.40	U	1.40	2.24
2,6-Dinitrotoluene		1.50	U	1.50	2.24
Di-n-octyl phthalate		1.20	U	1.20	2.24
1,2-Diphenylhydrazine (as Azobenzene)		1.57	U	1.57	2.24
Fluoranthene		0.455		0.229	0.450
Fluorene		2.08		0.195	0.450
Hexachlorobenzene		1.68	U	1.68	2.24
Hexachlorobutadiene		1.12	U	1.12	2.24

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-507

Lab Sample ID: 490-117419-4 Date Sampled: 12/01/2016 0930
Client Matrix: Soil % Moisture: 25.8 Date Received: 12/05/2016 0815

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-393298	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-392774	Lab File ID:	120916-024.D
Dilution:	5.0			Initial Weight/Volume:	30.06 g
Analysis Date:	12/10/2016 0140			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1104			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		1.01	U	1.01	2.24
Hexachloroethane		1.22	U	1.22	2.24
Ideno(1,2,3-cd)pyrene		0.195	U	0.195	0.450
Isophorone		1.26	U	1.26	2.24
1-Methylnaphthalene		3.49		0.188	0.450
2-Methylnaphthalene		0.909		0.175	0.450
Naphthalene		0.195	U	0.195	0.450
2-Nitroaniline		1.39	U	1.39	2.24
3-Nitroaniline		1.55	U	1.55	4.50
4-Nitroaniline		1.60	U	1.60	4.50
Nitrobenzene		1.35	U	1.35	2.24
2-Nitrophenol		1.63	U	1.63	2.24
4-Nitrophenol		2.57	U	2.57	4.50
N-Nitrosodimethylamine		0.134	U	0.134	2.24
N-Nitrosodi-n-propylamine		1.30	U	1.30	2.24
N-Nitrosodiphenylamine		0.356	U	0.356	2.24
Pentachlorophenol		1.79	U	1.79	4.50
Phenanthrene		7.09		0.229	0.450
Phenol		1.36	U	1.36	2.24
Pyrene		2.73		0.229	0.450
Pyridine		1.34	U	1.34	4.50
1,2,4-Trichlorobenzene		1.22	U	1.22	2.24
2,4,5-Trichlorophenol		1.47	U	1.47	2.24
2,4,6-Trichlorophenol		1.29	U	1.29	2.24

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	77		29 - 120
2-Fluorophenol (Surr)	57		10 - 120
Nitrobenzene-d5 (Surr)	64		27 - 120
Phenol-d5 (Surr)	65		10 - 120
Terphenyl-d14 (Surr)	77		13 - 120
2,4,6-Tribromophenol (Surr)	72		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-508

Lab Sample ID: 490-117419-5 Date Sampled: 12/01/2016 1100
Client Matrix: Soil % Moisture: 24.7 Date Received: 12/05/2016 0815

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-393298	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-392774	Lab File ID:	120916-025.D
Dilution:	5.0			Initial Weight/Volume:	30.58 g
Analysis Date:	12/10/2016 0159			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1104			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.546		0.209	0.437
Acenaphthylene		0.189	U	0.189	0.437
Aniline		1.65	U	1.65	4.37
Anthracene		0.308	J	0.189	0.437
Benzidine		1.33	U	1.33	2.17
Benzo(a)anthracene		0.196	U	0.196	0.437
Benzo(a)pyrene		0.579		0.176	0.437
Benzo(b)fluoranthene		0.252	J	0.182	0.437
Benzo(g,h,i)perylene		1.08		0.215	0.437
Benzoic acid		0.391	U	0.391	2.17
Benzo(k)fluoranthene		0.176	U	0.176	0.437
Benzyl alcohol		1.26	U	1.26	2.17
Bis(2-chloroethoxy)methane		1.30	U	1.30	2.17
Bis(2-chloroethyl)ether		1.39	U	1.39	2.17
bis (2-chloroisopropyl) ether		1.29	U	1.29	2.17
Bis(2-ethylhexyl)phthalate		1.35	U	1.35	2.17
4-Bromophenyl phenyl ether		1.34	U	1.34	2.17
Butyl benzyl phthalate		1.40	U	1.40	2.17
Carbazole		1.35	U	1.35	2.17
4-Chloroaniline		1.48	U	1.48	2.17
4-Chloro-3-methylphenol		1.09	U	1.09	2.17
2-Chloronaphthalene		1.36	U	1.36	2.17
2-Chlorophenol		1.24	U	1.24	2.17
4-Chlorophenyl phenyl ether		1.31	U	1.31	2.17
Chrysene		0.241	U	0.241	0.437
Dibenzo(a,h)anthracene		0.209	U	0.209	0.437
Dibenzofuran		1.37	U	1.37	2.17
1,2-Dichlorobenzene		1.24	U	1.24	2.17
1,3-Dichlorobenzene		1.24	U	1.24	2.17
1,4-Dichlorobenzene		1.28	U	1.28	2.17
3,3'-Dichlorobenzidine		1.33	U	1.33	4.37
2,4-Dichlorophenol		1.14	U	1.14	2.17
Diethyl phthalate		1.38	U	1.38	2.17
2,4-Dimethylphenol		2.18	U	2.18	4.37
Dimethyl phthalate		1.35	U	1.35	2.17
Di-n-butyl phthalate		1.38	U	1.38	2.17
4,6-Dinitro-o-cresol		1.49	U	1.49	2.17
2,4-Dinitrophenol		1.64	U	1.64	2.17
2,4-Dinitrotoluene		1.36	U	1.36	2.17
2,6-Dinitrotoluene		1.45	U	1.45	2.17
Di-n-octyl phthalate		1.16	U	1.16	2.17
1,2-Diphenylhydrazine (as Azobenzene)		1.52	U	1.52	2.17
Fluoranthene		0.656		0.222	0.437
Fluorene		0.189	U	0.189	0.437
Hexachlorobenzene		1.63	U	1.63	2.17
Hexachlorobutadiene		1.09	U	1.09	2.17

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-508

Lab Sample ID: 490-117419-5 Date Sampled: 12/01/2016 1100
Client Matrix: Soil % Moisture: 24.7 Date Received: 12/05/2016 0815

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-393298	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-392774	Lab File ID:	120916-025.D
Dilution:	5.0			Initial Weight/Volume:	30.58 g
Analysis Date:	12/10/2016 0159			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1104			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.978	U	0.978	2.17
Hexachloroethane		1.18	U	1.18	2.17
Ideno(1,2,3-cd)pyrene		0.207	J	0.189	0.437
Isophorone		1.23	U	1.23	2.17
1-Methylnaphthalene		1.09		0.182	0.437
2-Methylnaphthalene		0.743		0.169	0.437
Naphthalene		0.189	U	0.189	0.437
2-Nitroaniline		1.35	U	1.35	2.17
3-Nitroaniline		1.50	U	1.50	4.37
4-Nitroaniline		1.55	U	1.55	4.37
Nitrobenzene		1.31	U	1.31	2.17
2-Nitrophenol		1.58	U	1.58	2.17
4-Nitrophenol		2.49	U	2.49	4.37
N-Nitrosodimethylamine		0.130	U	0.130	2.17
N-Nitrosodi-n-propylamine		1.26	U	1.26	2.17
N-Nitrosodiphenylamine		0.345	U	0.345	2.17
Pentachlorophenol		1.73	U	1.73	4.37
Phenanthrene		2.26		0.222	0.437
Phenol		1.32	U	1.32	2.17
Pyrene		11.1		0.222	0.437
Pyridine		1.30	U	1.30	4.37
1,2,4-Trichlorobenzene		1.18	U	1.18	2.17
2,4,5-Trichlorophenol		1.42	U	1.42	2.17
2,4,6-Trichlorophenol		1.25	U	1.25	2.17

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	62		29 - 120
2-Fluorophenol (Surr)	52		10 - 120
Nitrobenzene-d5 (Surr)	58		27 - 120
Phenol-d5 (Surr)	60		10 - 120
Terphenyl-d14 (Surr)	70		13 - 120
2,4,6-Tribromophenol (Surr)	67		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-505

Lab Sample ID: 490-117419-6 Date Sampled: 12/01/2016 0845
Client Matrix: Soil % Moisture: 21.3 Date Received: 12/05/2016 0815

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-393298	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-392774	Lab File ID:	120916-026.D
Dilution:	5.0			Initial Weight/Volume:	30.91 g
Analysis Date:	12/10/2016 0217			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1104			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.197	U	0.197	0.413
Acenaphthylene		0.179	U	0.179	0.413
Aniline		1.56	U	1.56	4.13
Anthracene		0.179	U	0.179	0.413
Benzidine		1.26	U	1.26	2.05
Benzo(a)anthracene		0.185	U	0.185	0.413
Benzo(a)pyrene		0.270	J	0.167	0.413
Benzo(b)fluoranthene		0.173	U	0.173	0.413
Benzo(g,h,i)perylene		1.45		0.204	0.413
Benzoic acid		0.370	U	0.370	2.05
Benzo(k)fluoranthene		0.167	U	0.167	0.413
Benzyl alcohol		1.20	U	1.20	2.05
Bis(2-chloroethoxy)methane		1.23	U	1.23	2.05
Bis(2-chloroethyl)ether		1.31	U	1.31	2.05
bis (2-chloroisopropyl) ether		1.22	U	1.22	2.05
Bis(2-ethylhexyl)phthalate		1.28	U	1.28	2.05
4-Bromophenyl phenyl ether		1.26	U	1.26	2.05
Butyl benzyl phthalate		1.33	U	1.33	2.05
Carbazole		1.28	U	1.28	2.05
4-Chloroaniline		1.40	U	1.40	2.05
4-Chloro-3-methylphenol		1.04	U	1.04	2.05
2-Chloronaphthalene		1.29	U	1.29	2.05
2-Chlorophenol		1.18	U	1.18	2.05
4-Chlorophenyl phenyl ether		1.24	U	1.24	2.05
Chrysene		0.228	U	0.228	0.413
Dibenzo(a,h)anthracene		0.388	J	0.197	0.413
Dibenzofuran		1.30	U	1.30	2.05
1,2-Dichlorobenzene		1.17	U	1.17	2.05
1,3-Dichlorobenzene		1.17	U	1.17	2.05
1,4-Dichlorobenzene		1.21	U	1.21	2.05
3,3'-Dichlorobenzidine		1.26	U	1.26	4.13
2,4-Dichlorophenol		1.08	U	1.08	2.05
Diethyl phthalate		1.31	U	1.31	2.05
2,4-Dimethylphenol		2.07	U	2.07	4.13
Dimethyl phthalate		1.28	U	1.28	2.05
Di-n-butyl phthalate		1.30	U	1.30	2.05
4,6-Dinitro-o-cresol		1.41	U	1.41	2.05
2,4-Dinitrophenol		1.55	U	1.55	2.05
2,4-Dinitrotoluene		1.28	U	1.28	2.05
2,6-Dinitrotoluene		1.38	U	1.38	2.05
Di-n-octyl phthalate		1.10	U	1.10	2.05
1,2-Diphenylhydrazine (as Azobenzene)		1.44	U	1.44	2.05
Fluoranthene		0.210	U	0.210	0.413
Fluorene		0.179	U	0.179	0.413
Hexachlorobenzene		1.54	U	1.54	2.05
Hexachlorobutadiene		1.03	U	1.03	2.05

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-505

Lab Sample ID: 490-117419-6 Date Sampled: 12/01/2016 0845
Client Matrix: Soil % Moisture: 21.3 Date Received: 12/05/2016 0815

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-393298	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-392774	Lab File ID:	120916-026.D
Dilution:	5.0			Initial Weight/Volume:	30.91 g
Analysis Date:	12/10/2016 0217			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1104			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.925	U	0.925	2.05
Hexachloroethane		1.12	U	1.12	2.05
Ideno(1,2,3-cd)pyrene		0.298	J	0.179	0.413
Isophorone		1.16	U	1.16	2.05
1-Methylnaphthalene		0.173	U	0.173	0.413
2-Methylnaphthalene		0.160	U	0.160	0.413
Naphthalene		0.179	U	0.179	0.413
2-Nitroaniline		1.28	U	1.28	2.05
3-Nitroaniline		1.42	U	1.42	4.13
4-Nitroaniline		1.47	U	1.47	4.13
Nitrobenzene		1.24	U	1.24	2.05
2-Nitrophenol		1.50	U	1.50	2.05
4-Nitrophenol		2.36	U	2.36	4.13
N-Nitrosodimethylamine		0.123	U	0.123	2.05
N-Nitrosodi-n-propylamine		1.20	U	1.20	2.05
N-Nitrosodiphenylamine		0.327	U	0.327	2.05
Pentachlorophenol		1.64	U	1.64	4.13
Phenanthrene		0.210	U	0.210	0.413
Phenol		1.25	U	1.25	2.05
Pyrene		0.210	U	0.210	0.413
Pyridine		1.23	U	1.23	4.13
1,2,4-Trichlorobenzene		1.12	U	1.12	2.05
2,4,5-Trichlorophenol		1.34	U	1.34	2.05
2,4,6-Trichlorophenol		1.18	U	1.18	2.05

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	74		29 - 120
2-Fluorophenol (Surr)	66		10 - 120
Nitrobenzene-d5 (Surr)	67		27 - 120
Phenol-d5 (Surr)	69		10 - 120
Terphenyl-d14 (Surr)	75		13 - 120
2,4,6-Tribromophenol (Surr)	75		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-504

Lab Sample ID: 490-117419-7 Date Sampled: 11/30/2016 1515
Client Matrix: Soil % Moisture: 15.4 Date Received: 12/05/2016 0815

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-393298	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-392774	Lab File ID:	120916-027.D
Dilution:	5.0			Initial Weight/Volume:	30.46 g
Analysis Date:	12/10/2016 0236			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1104			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.186	U	0.186	0.390
Acenaphthylene		0.169	U	0.169	0.390
Aniline		1.47	U	1.47	3.90
Anthracene		0.169	U	0.169	0.390
Benzidine		1.19	U	1.19	1.94
Benzo(a)anthracene		0.175	U	0.175	0.390
Benzo(a)pyrene		0.157	U	0.157	0.390
Benzo(b)fluoranthene		0.163	U	0.163	0.390
Benzo(g,h,i)perylene		0.423		0.192	0.390
Benzoic acid		0.349	U	0.349	1.94
Benzo(k)fluoranthene		0.157	U	0.157	0.390
Benzyl alcohol		1.13	U	1.13	1.94
Bis(2-chloroethoxy)methane		1.16	U	1.16	1.94
Bis(2-chloroethyl)ether		1.24	U	1.24	1.94
bis (2-chloroisopropyl) ether		1.15	U	1.15	1.94
Bis(2-ethylhexyl)phthalate		1.21	U	1.21	1.94
4-Bromophenyl phenyl ether		1.19	U	1.19	1.94
Butyl benzyl phthalate		1.25	U	1.25	1.94
Carbazole		1.21	U	1.21	1.94
4-Chloroaniline		1.32	U	1.32	1.94
4-Chloro-3-methylphenol		0.978	U	0.978	1.94
2-Chloronaphthalene		1.22	U	1.22	1.94
2-Chlorophenol		1.11	U	1.11	1.94
4-Chlorophenyl phenyl ether		1.17	U	1.17	1.94
Chrysene		0.215	U	0.215	0.390
Dibenzo(a,h)anthracene		0.186	U	0.186	0.390
Dibenzofuran		1.22	U	1.22	1.94
1,2-Dichlorobenzene		1.11	U	1.11	1.94
1,3-Dichlorobenzene		1.11	U	1.11	1.94
1,4-Dichlorobenzene		1.14	U	1.14	1.94
3,3'-Dichlorobenzidine		1.19	U	1.19	3.90
2,4-Dichlorophenol		1.02	U	1.02	1.94
Diethyl phthalate		1.23	U	1.23	1.94
2,4-Dimethylphenol		1.95	U	1.95	3.90
Dimethyl phthalate		1.21	U	1.21	1.94
Di-n-butyl phthalate		1.23	U	1.23	1.94
4,6-Dinitro-o-cresol		1.33	U	1.33	1.94
2,4-Dinitrophenol		1.46	U	1.46	1.94
2,4-Dinitrotoluene		1.21	U	1.21	1.94
2,6-Dinitrotoluene		1.30	U	1.30	1.94
Di-n-octyl phthalate		1.04	U	1.04	1.94
1,2-Diphenylhydrazine (as Azobenzene)		1.36	U	1.36	1.94
Fluoranthene		0.198	U	0.198	0.390
Fluorene		0.169	U	0.169	0.390
Hexachlorobenzene		1.46	U	1.46	1.94
Hexachlorobutadiene		0.972	U	0.972	1.94

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-504

Lab Sample ID: 490-117419-7 Date Sampled: 11/30/2016 1515
Client Matrix: Soil % Moisture: 15.4 Date Received: 12/05/2016 0815

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-393298	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-392774	Lab File ID:	120916-027.D
Dilution:	5.0			Initial Weight/Volume:	30.46 g
Analysis Date:	12/10/2016 0236			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1104			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.873	U	0.873	1.94
Hexachloroethane		1.05	U	1.05	1.94
Ideno(1,2,3-cd)pyrene		0.169	U	0.169	0.390
Isophorone		1.09	U	1.09	1.94
1-Methylnaphthalene		0.163	U	0.163	0.390
2-Methylnaphthalene		0.248	J	0.151	0.390
Naphthalene		0.191	J	0.169	0.390
2-Nitroaniline		1.21	U	1.21	1.94
3-Nitroaniline		1.34	U	1.34	3.90
4-Nitroaniline		1.39	U	1.39	3.90
Nitrobenzene		1.17	U	1.17	1.94
2-Nitrophenol		1.41	U	1.41	1.94
4-Nitrophenol		2.22	U	2.22	3.90
N-Nitrosodimethylamine		0.116	U	0.116	1.94
N-Nitrosodi-n-propylamine		1.13	U	1.13	1.94
N-Nitrosodiphenylamine		0.309	U	0.309	1.94
Pentachlorophenol		1.55	U	1.55	3.90
Phenanthrene		0.215	J	0.198	0.390
Phenol		1.18	U	1.18	1.94
Pyrene		0.306	J	0.198	0.390
Pyridine		1.16	U	1.16	3.90
1,2,4-Trichlorobenzene		1.05	U	1.05	1.94
2,4,5-Trichlorophenol		1.27	U	1.27	1.94
2,4,6-Trichlorophenol		1.12	U	1.12	1.94

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	56		29 - 120
2-Fluorophenol (Surr)	52		10 - 120
Nitrobenzene-d5 (Surr)	53		27 - 120
Phenol-d5 (Surr)	57		10 - 120
Terphenyl-d14 (Surr)	63		13 - 120
2,4,6-Tribromophenol (Surr)	64		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-502

Lab Sample ID: 490-117419-8 Date Sampled: 11/30/2016 1110
Client Matrix: Soil % Moisture: 18.4 Date Received: 12/05/2016 0815

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-393298	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-392774	Lab File ID:	120916-028.D
Dilution:	5.0			Initial Weight/Volume:	30.73 g
Analysis Date:	12/10/2016 0255			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1104			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.191	U	0.191	0.401
Acenaphthylene		0.173	U	0.173	0.401
Aniline		1.51	U	1.51	4.01
Anthracene		0.173	U	0.173	0.401
Benzidine		1.22	U	1.22	1.99
Benzo(a)anthracene		0.179	U	0.179	0.401
Benzo(a)pyrene		0.161	U	0.161	0.401
Benzo(b)fluoranthene		0.167	U	0.167	0.401
Benzo(g,h,i)perylene		0.515		0.197	0.401
Benzoic acid		0.359	U	0.359	1.99
Benzo(k)fluoranthene		0.161	U	0.161	0.401
Benzyl alcohol		1.16	U	1.16	1.99
Bis(2-chloroethoxy)methane		1.20	U	1.20	1.99
Bis(2-chloroethyl)ether		1.27	U	1.27	1.99
bis (2-chloroisopropyl) ether		1.18	U	1.18	1.99
Bis(2-ethylhexyl)phthalate		1.24	U	1.24	1.99
4-Bromophenyl phenyl ether		1.23	U	1.23	1.99
Butyl benzyl phthalate		1.29	U	1.29	1.99
Carbazole		1.24	U	1.24	1.99
4-Chloroaniline		1.36	U	1.36	1.99
4-Chloro-3-methylphenol		1.00	U	1.00	1.99
2-Chloronaphthalene		1.25	U	1.25	1.99
2-Chlorophenol		1.14	U	1.14	1.99
4-Chlorophenyl phenyl ether		1.20	U	1.20	1.99
Chrysene		0.221	U	0.221	0.401
Dibenzo(a,h)anthracene		0.191	U	0.191	0.401
Dibenzofuran		1.26	U	1.26	1.99
1,2-Dichlorobenzene		1.14	U	1.14	1.99
1,3-Dichlorobenzene		1.14	U	1.14	1.99
1,4-Dichlorobenzene		1.17	U	1.17	1.99
3,3'-Dichlorobenzidine		1.22	U	1.22	4.01
2,4-Dichlorophenol		1.05	U	1.05	1.99
Diethyl phthalate		1.27	U	1.27	1.99
2,4-Dimethylphenol		2.00	U	2.00	4.01
Dimethyl phthalate		1.24	U	1.24	1.99
Di-n-butyl phthalate		1.26	U	1.26	1.99
4,6-Dinitro-o-cresol		1.37	U	1.37	1.99
2,4-Dinitrophenol		1.50	U	1.50	1.99
2,4-Dinitrotoluene		1.24	U	1.24	1.99
2,6-Dinitrotoluene		1.33	U	1.33	1.99
Di-n-octyl phthalate		1.06	U	1.06	1.99
1,2-Diphenylhydrazine (as Azobenzene)		1.40	U	1.40	1.99
Fluoranthene		0.203	U	0.203	0.401
Fluorene		0.173	U	0.173	0.401
Hexachlorobenzene		1.49	U	1.49	1.99
Hexachlorobutadiene		0.999	U	0.999	1.99

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-502

Lab Sample ID: 490-117419-8 Date Sampled: 11/30/2016 1110
Client Matrix: Soil % Moisture: 18.4 Date Received: 12/05/2016 0815

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-393298	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-392774	Lab File ID:	120916-028.D
Dilution:	5.0			Initial Weight/Volume:	30.73 g
Analysis Date:	12/10/2016 0255			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1104			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.897	U	0.897	1.99
Hexachloroethane		1.08	U	1.08	1.99
Ideno(1,2,3-cd)pyrene		0.173	U	0.173	0.401
Isophorone		1.12	U	1.12	1.99
1-Methylnaphthalene		0.320	J	0.167	0.401
2-Methylnaphthalene		0.762		0.155	0.401
Naphthalene		0.251	J	0.173	0.401
2-Nitroaniline		1.24	U	1.24	1.99
3-Nitroaniline		1.38	U	1.38	4.01
4-Nitroaniline		1.42	U	1.42	4.01
Nitrobenzene		1.20	U	1.20	1.99
2-Nitrophenol		1.45	U	1.45	1.99
4-Nitrophenol		2.28	U	2.28	4.01
N-Nitrosodimethylamine		0.120	U	0.120	1.99
N-Nitrosodi-n-propylamine		1.16	U	1.16	1.99
N-Nitrosodiphenylamine		0.317	U	0.317	1.99
Pentachlorophenol		1.59	U	1.59	4.01
Phenanthrene		0.651		0.203	0.401
Phenol		1.21	U	1.21	1.99
Pyrene		0.514		0.203	0.401
Pyridine		1.19	U	1.19	4.01
1,2,4-Trichlorobenzene		1.08	U	1.08	1.99
2,4,5-Trichlorophenol		1.30	U	1.30	1.99
2,4,6-Trichlorophenol		1.15	U	1.15	1.99

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	55		29 - 120
2-Fluorophenol (Surr)	45		10 - 120
Nitrobenzene-d5 (Surr)	51		27 - 120
Phenol-d5 (Surr)	50		10 - 120
Terphenyl-d14 (Surr)	61		13 - 120
2,4,6-Tribromophenol (Surr)	62		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-503

Lab Sample ID: 490-117419-9 Date Sampled: 11/30/2016 1230
Client Matrix: Soil % Moisture: 25.1 Date Received: 12/05/2016 0815

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-393298	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-392774	Lab File ID:	120916-029.D
Dilution:	5.0			Initial Weight/Volume:	30.22 g
Analysis Date:	12/10/2016 0313			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1104			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.212	U	0.212	0.444
Acenaphthylene		0.192	U	0.192	0.444
Aniline		1.68	U	1.68	4.44
Anthracene		0.192	U	0.192	0.444
Benzidine		1.35	U	1.35	2.21
Benzo(a)anthracene		0.199	U	0.199	0.444
Benzo(a)pyrene		0.179	U	0.179	0.444
Benzo(b)fluoranthene		0.186	U	0.186	0.444
Benzo(g,h,i)perylene		0.219	U	0.219	0.444
Benzoic acid		0.398	U	0.398	2.21
Benzo(k)fluoranthene		0.179	U	0.179	0.444
Benzyl alcohol		1.29	U	1.29	2.21
Bis(2-chloroethoxy)methane		1.33	U	1.33	2.21
Bis(2-chloroethyl)ether		1.41	U	1.41	2.21
bis (2-chloroisopropyl) ether		1.31	U	1.31	2.21
Bis(2-ethylhexyl)phthalate		1.37	U	1.37	2.21
4-Bromophenyl phenyl ether		1.36	U	1.36	2.21
Butyl benzyl phthalate		1.42	U	1.42	2.21
Carbazole		1.37	U	1.37	2.21
4-Chloroaniline		1.50	U	1.50	2.21
4-Chloro-3-methylphenol		1.11	U	1.11	2.21
2-Chloronaphthalene		1.39	U	1.39	2.21
2-Chlorophenol		1.27	U	1.27	2.21
4-Chlorophenyl phenyl ether		1.33	U	1.33	2.21
Chrysene		0.245	U	0.245	0.444
Dibenzo(a,h)anthracene		0.212	U	0.212	0.444
Dibenzofuran		1.39	U	1.39	2.21
1,2-Dichlorobenzene		1.26	U	1.26	2.21
1,3-Dichlorobenzene		1.26	U	1.26	2.21
1,4-Dichlorobenzene		1.30	U	1.30	2.21
3,3'-Dichlorobenzidine		1.35	U	1.35	4.44
2,4-Dichlorophenol		1.16	U	1.16	2.21
Diethyl phthalate		1.40	U	1.40	2.21
2,4-Dimethylphenol		2.22	U	2.22	4.44
Dimethyl phthalate		1.37	U	1.37	2.21
Di-n-butyl phthalate		1.40	U	1.40	2.21
4,6-Dinitro-o-cresol		1.52	U	1.52	2.21
2,4-Dinitrophenol		1.66	U	1.66	2.21
2,4-Dinitrotoluene		1.38	U	1.38	2.21
2,6-Dinitrotoluene		1.48	U	1.48	2.21
Di-n-octyl phthalate		1.18	U	1.18	2.21
1,2-Diphenylhydrazine (as Azobenzene)		1.55	U	1.55	2.21
Fluoranthene		0.225	U	0.225	0.444
Fluorene		0.192	U	0.192	0.444
Hexachlorobenzene		1.66	U	1.66	2.21
Hexachlorobutadiene		1.11	U	1.11	2.21

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-503

Lab Sample ID: 490-117419-9 Date Sampled: 11/30/2016 1230
Client Matrix: Soil % Moisture: 25.1 Date Received: 12/05/2016 0815

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-393298	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-392774	Lab File ID:	120916-029.D
Dilution:	5.0			Initial Weight/Volume:	30.22 g
Analysis Date:	12/10/2016 0313			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1104			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.994	U	0.994	2.21
Hexachloroethane		1.20	U	1.20	2.21
Ideno(1,2,3-cd)pyrene		0.192	U	0.192	0.444
Isophorone		1.25	U	1.25	2.21
1-Methylnaphthalene		0.186	U	0.186	0.444
2-Methylnaphthalene		0.172	U	0.172	0.444
Naphthalene		0.192	U	0.192	0.444
2-Nitroaniline		1.37	U	1.37	2.21
3-Nitroaniline		1.52	U	1.52	4.44
4-Nitroaniline		1.58	U	1.58	4.44
Nitrobenzene		1.33	U	1.33	2.21
2-Nitrophenol		1.61	U	1.61	2.21
4-Nitrophenol		2.53	U	2.53	4.44
N-Nitrosodimethylamine		0.133	U	0.133	2.21
N-Nitrosodi-n-propylamine		1.29	U	1.29	2.21
N-Nitrosodiphenylamine		0.351	U	0.351	2.21
Pentachlorophenol		1.76	U	1.76	4.44
Phenanthrene		0.225	U	0.225	0.444
Phenol		1.35	U	1.35	2.21
Pyrene		0.225	U	0.225	0.444
Pyridine		1.32	U	1.32	4.44
1,2,4-Trichlorobenzene		1.20	U	1.20	2.21
2,4,5-Trichlorophenol		1.44	U	1.44	2.21
2,4,6-Trichlorophenol		1.27	U	1.27	2.21

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	72		29 - 120
2-Fluorophenol (Surr)	76		10 - 120
Nitrobenzene-d5 (Surr)	69		27 - 120
Phenol-d5 (Surr)	77		10 - 120
Terphenyl-d14 (Surr)	89		13 - 120
2,4,6-Tribromophenol (Surr)	90		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-500

Lab Sample ID: 490-117419-10 Date Sampled: 11/30/2016 1030
Client Matrix: Soil % Moisture: 18.7 Date Received: 12/05/2016 0815

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-393298	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-392774	Lab File ID:	120916-030.D
Dilution:	1.0			Initial Weight/Volume:	30.36 g
Analysis Date:	12/10/2016 0332			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1104			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0389	U	0.0389	0.0815
Acenaphthylene		0.0353	U	0.0353	0.0815
Aniline		0.308	U	0.308	0.815
Anthracene		0.0353	U	0.0353	0.0815
Benzidine		0.248	U	0.248	0.405
Benzo(a)anthracene		0.0365	U	0.0365	0.0815
Benzo(a)pyrene		0.0328	U	0.0328	0.0815
Benzo(b)fluoranthene		0.0340	U	0.0340	0.0815
Benzo(g,h,i)perylene		0.0401	U	0.0401	0.0815
Benzoic acid		0.0729	U	0.0729	0.405
Benzo(k)fluoranthene		0.0328	U	0.0328	0.0815
Benzyl alcohol		0.236	U	0.236	0.405
Bis(2-chloroethoxy)methane		0.243	U	0.243	0.405
Bis(2-chloroethyl)ether		0.259	U	0.259	0.405
bis (2-chloroisopropyl) ether		0.241	U	0.241	0.405
Bis(2-ethylhexyl)phthalate		0.252	U	0.252	0.405
4-Bromophenyl phenyl ether		0.249	U	0.249	0.405
Butyl benzyl phthalate		0.261	U	0.261	0.405
Carbazole		0.252	U	0.252	0.405
4-Chloroaniline		0.276	U	0.276	0.405
4-Chloro-3-methylphenol		0.204	U	0.204	0.405
2-Chloronaphthalene		0.254	U	0.254	0.405
2-Chlorophenol		0.232	U	0.232	0.405
4-Chlorophenyl phenyl ether		0.244	U	0.244	0.405
Chrysene		0.0450	U	0.0450	0.0815
Dibenzo(a,h)anthracene		0.0389	U	0.0389	0.0815
Dibenzofuran		0.255	U	0.255	0.405
1,2-Dichlorobenzene		0.231	U	0.231	0.405
1,3-Dichlorobenzene		0.231	U	0.231	0.405
1,4-Dichlorobenzene		0.238	U	0.238	0.405
3,3'-Dichlorobenzidine		0.248	U	0.248	0.815
2,4-Dichlorophenol		0.213	U	0.213	0.405
Diethyl phthalate		0.258	U	0.258	0.405
2,4-Dimethylphenol		0.407	U	0.407	0.815
Dimethyl phthalate		0.252	U	0.252	0.405
Di-n-butyl phthalate		0.257	U	0.257	0.405
4,6-Dinitro-o-cresol		0.278	U	0.278	0.405
2,4-Dinitrophenol		0.305	U	0.305	0.405
2,4-Dinitrotoluene		0.253	U	0.253	0.405
2,6-Dinitrotoluene		0.271	U	0.271	0.405
Di-n-octyl phthalate		0.216	U	0.216	0.405
1,2-Diphenylhydrazine (as Azobenzene)		0.284	U	0.284	0.405
Fluoranthene		0.0413	U	0.0413	0.0815
Fluorene		0.0353	U	0.0353	0.0815
Hexachlorobenzene		0.304	U	0.304	0.405
Hexachlorobutadiene		0.203	U	0.203	0.405

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-500

Lab Sample ID: 490-117419-10 Date Sampled: 11/30/2016 1030
Client Matrix: Soil % Moisture: 18.7 Date Received: 12/05/2016 0815

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-393298	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-392774	Lab File ID:	120916-030.D
Dilution:	1.0			Initial Weight/Volume:	30.36 g
Analysis Date:	12/10/2016 0332			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1104			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.182	U	0.182	0.405
Hexachloroethane		0.220	U	0.220	0.405
Ideno(1,2,3-cd)pyrene		0.0353	U	0.0353	0.0815
Isophorone		0.229	U	0.229	0.405
1-Methylnaphthalene		0.0340	U	0.0340	0.0815
2-Methylnaphthalene		0.0316	U	0.0316	0.0815
Naphthalene		0.0353	U	0.0353	0.0815
2-Nitroaniline		0.252	U	0.252	0.405
3-Nitroaniline		0.280	U	0.280	0.815
4-Nitroaniline		0.289	U	0.289	0.815
Nitrobenzene		0.244	U	0.244	0.405
2-Nitrophenol		0.295	U	0.295	0.405
4-Nitrophenol		0.464	U	0.464	0.815
N-Nitrosodimethylamine		0.0243	U	0.0243	0.405
N-Nitrosodi-n-propylamine		0.236	U	0.236	0.405
N-Nitrosodiphenylamine		0.0644	U	0.0644	0.405
Pentachlorophenol		0.323	U	0.323	0.815
Phenanthrene		0.0413	U	0.0413	0.0815
Phenol		0.247	U	0.247	0.405
Pyrene		0.0413	U	0.0413	0.0815
Pyridine		0.242	U	0.242	0.815
1,2,4-Trichlorobenzene		0.220	U	0.220	0.405
2,4,5-Trichlorophenol		0.265	U	0.265	0.405
2,4,6-Trichlorophenol		0.233	U	0.233	0.405

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	68		29 - 120
2-Fluorophenol (Surr)	71		10 - 120
Nitrobenzene-d5 (Surr)	66		27 - 120
Phenol-d5 (Surr)	76		10 - 120
Terphenyl-d14 (Surr)	90		13 - 120
2,4,6-Tribromophenol (Surr)	91		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-501

Lab Sample ID: 490-117419-11 Date Sampled: 11/30/2016 1100
Client Matrix: Soil % Moisture: 18.6 Date Received: 12/05/2016 0815

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-393298	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-392774	Lab File ID:	120916-031.D
Dilution:	1.0			Initial Weight/Volume:	30.79 g
Analysis Date:	12/10/2016 0350			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1104			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0383	U	0.0383	0.0802
Acenaphthylene		0.0347	U	0.0347	0.0802
Aniline		0.303	U	0.303	0.802
Anthracene		0.0347	U	0.0347	0.0802
Benzidine		0.244	U	0.244	0.399
Benzo(a)anthracene		0.0359	U	0.0359	0.0802
Benzo(a)pyrene		0.0323	U	0.0323	0.0802
Benzo(b)fluoranthene		0.0335	U	0.0335	0.0802
Benzo(g,h,i)perylene		0.0395	U	0.0395	0.0802
Benzoic acid		0.0718	U	0.0718	0.399
Benzo(k)fluoranthene		0.0323	U	0.0323	0.0802
Benzyl alcohol		0.232	U	0.232	0.399
Bis(2-chloroethoxy)methane		0.239	U	0.239	0.399
Bis(2-chloroethyl)ether		0.255	U	0.255	0.399
bis (2-chloroisopropyl) ether		0.237	U	0.237	0.399
Bis(2-ethylhexyl)phthalate		0.248	U	0.248	0.399
4-Bromophenyl phenyl ether		0.245	U	0.245	0.399
Butyl benzyl phthalate		0.257	U	0.257	0.399
Carbazole		0.248	U	0.248	0.399
4-Chloroaniline		0.272	U	0.272	0.399
4-Chloro-3-methylphenol		0.201	U	0.201	0.399
2-Chloronaphthalene		0.250	U	0.250	0.399
2-Chlorophenol		0.229	U	0.229	0.399
4-Chlorophenyl phenyl ether		0.241	U	0.241	0.399
Chrysene		0.0443	U	0.0443	0.0802
Dibenzo(a,h)anthracene		0.0383	U	0.0383	0.0802
Dibenzofuran		0.251	U	0.251	0.399
1,2-Dichlorobenzene		0.228	U	0.228	0.399
1,3-Dichlorobenzene		0.228	U	0.228	0.399
1,4-Dichlorobenzene		0.235	U	0.235	0.399
3,3'-Dichlorobenzidine		0.244	U	0.244	0.802
2,4-Dichlorophenol		0.210	U	0.210	0.399
Diethyl phthalate		0.254	U	0.254	0.399
2,4-Dimethylphenol		0.401	U	0.401	0.802
Dimethyl phthalate		0.248	U	0.248	0.399
Di-n-butyl phthalate		0.253	U	0.253	0.399
4,6-Dinitro-o-cresol		0.274	U	0.274	0.399
2,4-Dinitrophenol		0.301	U	0.301	0.399
2,4-Dinitrotoluene		0.249	U	0.249	0.399
2,6-Dinitrotoluene		0.267	U	0.267	0.399
Di-n-octyl phthalate		0.213	U	0.213	0.399
1,2-Diphenylhydrazine (as Azobenzene)		0.280	U	0.280	0.399
Fluoranthene		0.0407	U	0.0407	0.0802
Fluorene		0.0347	U	0.0347	0.0802
Hexachlorobenzene		0.299	U	0.299	0.399
Hexachlorobutadiene		0.200	U	0.200	0.399

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-501

Lab Sample ID: 490-117419-11 Date Sampled: 11/30/2016 1100
Client Matrix: Soil % Moisture: 18.6 Date Received: 12/05/2016 0815

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-393298	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-392774	Lab File ID:	120916-031.D
Dilution:	1.0			Initial Weight/Volume:	30.79 g
Analysis Date:	12/10/2016 0350			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1104			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.180	U	0.180	0.399
Hexachloroethane		0.217	U	0.217	0.399
Ideno(1,2,3-cd)pyrene		0.0347	U	0.0347	0.0802
Isophorone		0.225	U	0.225	0.399
1-Methylnaphthalene		0.0335	U	0.0335	0.0802
2-Methylnaphthalene		0.0311	U	0.0311	0.0802
Naphthalene		0.0347	U	0.0347	0.0802
2-Nitroaniline		0.248	U	0.248	0.399
3-Nitroaniline		0.275	U	0.275	0.802
4-Nitroaniline		0.285	U	0.285	0.802
Nitrobenzene		0.241	U	0.241	0.399
2-Nitrophenol		0.291	U	0.291	0.399
4-Nitrophenol		0.457	U	0.457	0.802
N-Nitrosodimethylamine		0.0239	U	0.0239	0.399
N-Nitrosodi-n-propylamine		0.232	U	0.232	0.399
N-Nitrosodiphenylamine		0.0635	U	0.0635	0.399
Pentachlorophenol		0.319	U	0.319	0.802
Phenanthrene		0.0407	U	0.0407	0.0802
Phenol		0.243	U	0.243	0.399
Pyrene		0.0407	U	0.0407	0.0802
Pyridine		0.238	U	0.238	0.802
1,2,4-Trichlorobenzene		0.217	U	0.217	0.399
2,4,5-Trichlorophenol		0.261	U	0.261	0.399
2,4,6-Trichlorophenol		0.230	U	0.230	0.399

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	59		29 - 120
2-Fluorophenol (Surr)	59		10 - 120
Nitrobenzene-d5 (Surr)	58		27 - 120
Phenol-d5 (Surr)	61		10 - 120
Terphenyl-d14 (Surr)	72		13 - 120
2,4,6-Tribromophenol (Surr)	72		10 - 120

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-506

Lab Sample ID: 490-117419-1 Date Sampled: 12/01/2016 0900
Client Matrix: Soil % Moisture: 23.3 Date Received: 12/05/2016 0815

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-393176	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392796	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0			Initial Weight/Volume:	.516 g
Analysis Date:	12/08/2016 2031			Final Weight/Volume:	100 mL
Prep Date:	12/08/2016 1208				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10800		12.6	25.3
Antimony		1.26	U	1.26	12.6
Arsenic		102		1.52	2.53
Barium		123		1.26	2.53
Beryllium		1.11	J	0.253	1.26
Cadmium		0.379	J	0.126	1.26
Calcium		74900		126	253
Chromium		16.9		1.14	1.26
Cobalt		9.48		1.26	2.53
Copper		632		1.39	2.53
Iron		57200		25.3	50.5
Lead		71.5		0.632	1.26
Magnesium		5930		126	253
Manganese		2190		1.26	3.79
Nickel		26.8		0.758	2.53
Potassium		986		126	253
Selenium		7.08		1.39	2.53
Sodium		233	J	164	253
Thallium		1.04	J	0.758	2.53
Vanadium		30.6		2.53	12.6
Zinc		67.0		6.32	12.6

Analysis Method:	6010C	Analysis Batch:	490-393435	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-393258	Lab File ID:	TALS_120916-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.504 g
Analysis Date:	12/10/2016 0415			Final Weight/Volume:	100 mL
Prep Date:	12/09/2016 1511				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.518	U	0.518	1.29

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394269	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.624 g
Analysis Date:	12/15/2016 0821			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1222				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0376	U	0.0376	0.125

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-509

Lab Sample ID: 490-117419-2 Date Sampled: 12/01/2016 1300
Client Matrix: Soil % Moisture: 27.6 Date Received: 12/05/2016 0815

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-393176	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392796	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0			Initial Weight/Volume:	.503 g
Analysis Date:	12/08/2016 2036			Final Weight/Volume:	100 mL
Prep Date:	12/08/2016 1208				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10200		13.7	27.4
Antimony		7.90	J	1.37	13.7
Arsenic		162		1.65	2.74
Barium		451		1.37	2.74
Beryllium		1.40		0.274	1.37
Cadmium		3.21		0.137	1.37
Calcium		41100		137	274
Chromium		23.9		1.23	1.37
Cobalt		11.8		1.37	2.74
Copper		124		1.51	2.74
Iron		34900		27.4	54.9
Lead		1500		0.686	1.37
Magnesium		5350		137	274
Manganese		943		1.37	4.12
Nickel		30.0		0.823	2.74
Potassium		2750		137	274
Selenium		8.07		1.51	2.74
Sodium		333		178	274
Thallium		1.07	J	0.823	2.74
Vanadium		37.3		2.74	13.7
Zinc		442		6.86	13.7

Analysis Method:	6010C	Analysis Batch:	490-393435	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-393258	Lab File ID:	TALS_120916-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.503 g
Analysis Date:	12/10/2016 0420			Final Weight/Volume:	100 mL
Prep Date:	12/09/2016 1511				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		1.84		0.549	1.37

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394269	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.616 g
Analysis Date:	12/15/2016 0823			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1222				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.152		0.0403	0.134

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-507

Lab Sample ID: 490-117419-4 Date Sampled: 12/01/2016 0930
Client Matrix: Soil % Moisture: 25.8 Date Received: 12/05/2016 0815

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-393176	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392796	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0			Initial Weight/Volume:	.517 g
Analysis Date:	12/08/2016 2041			Final Weight/Volume:	100 mL
Prep Date:	12/08/2016 1208				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7720		13.0	26.1
Antimony		2.58	J	1.30	13.0
Arsenic		35.8		1.56	2.61
Barium		83.4		1.30	2.61
Beryllium		0.495	J	0.261	1.30
Cadmium		0.417	J	0.130	1.30
Calcium		43200		130	261
Chromium		11.2		1.17	1.30
Cobalt		8.34		1.30	2.61
Copper		325		1.43	2.61
Iron		29400		26.1	52.1
Lead		268		0.651	1.30
Magnesium		3400		130	261
Manganese		532		1.30	3.91
Nickel		17.8		0.782	2.61
Potassium		863		130	261
Selenium		5.13		1.43	2.61
Sodium		169	U	169	261
Thallium		0.782	U	0.782	2.61
Vanadium		24.0		2.61	13.0
Zinc		116		6.51	13.0

Analysis Method:	6010C	Analysis Batch:	490-393435	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-393258	Lab File ID:	TALS_120916-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.511 g
Analysis Date:	12/10/2016 0425			Final Weight/Volume:	100 mL
Prep Date:	12/09/2016 1511				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.527	U	0.527	1.32

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394269	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.622 g
Analysis Date:	12/15/2016 0826			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1222				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.128	J	0.0390	0.130

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-508

Lab Sample ID: 490-117419-5 Date Sampled: 12/01/2016 1100
Client Matrix: Soil % Moisture: 24.7 Date Received: 12/05/2016 0815

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-393176	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392796	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0			Initial Weight/Volume:	.507 g
Analysis Date:	12/08/2016 2046			Final Weight/Volume:	100 mL
Prep Date:	12/08/2016 1208				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10700		13.1	26.2
Antimony		1.31	U	1.31	13.1
Arsenic		33.6		1.57	2.62
Barium		138		1.31	2.62
Beryllium		0.786	J	0.262	1.31
Cadmium		0.524	J	0.131	1.31
Calcium		7500		131	262
Chromium		22.8		1.18	1.31
Cobalt		7.15		1.31	2.62
Copper		106		1.44	2.62
Iron		45300		26.2	52.4
Lead		476		0.655	1.31
Magnesium		4880		131	262
Manganese		197		1.31	3.93
Nickel		29.2		0.786	2.62
Potassium		712		131	262
Selenium		5.24		1.44	2.62
Sodium		396		170	262
Thallium		0.786	U	0.786	2.62
Vanadium		23.7		2.62	13.1
Zinc		150		6.55	13.1

Analysis Method:	6010C	Analysis Batch:	490-393435	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-393258	Lab File ID:	TALS_120916-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.507 g
Analysis Date:	12/10/2016 0430			Final Weight/Volume:	100 mL
Prep Date:	12/09/2016 1511				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.524	U	0.524	1.31

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394269	Lab File ID:	121416-5eLCS.CSV
Dilution:	100			Initial Weight/Volume:	0.624 g
Analysis Date:	12/15/2016 1124			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1222				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		22.3		3.83	12.8

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-505

Lab Sample ID: 490-117419-6 Date Sampled: 12/01/2016 0845
Client Matrix: Soil % Moisture: 21.3 Date Received: 12/05/2016 0815

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-393176	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392796	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0			Initial Weight/Volume:	.515 g
Analysis Date:	12/08/2016 2051			Final Weight/Volume:	100 mL
Prep Date:	12/08/2016 1208				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6460		12.3	24.7
Antimony		1.23	U	1.23	12.3
Arsenic		34.6		1.48	2.47
Barium		128		1.23	2.47
Beryllium		1.06	J	0.247	1.23
Cadmium		0.444	J	0.123	1.23
Calcium		6200		123	247
Chromium		13.9		1.11	1.23
Cobalt		7.48		1.23	2.47
Copper		57.9		1.36	2.47
Iron		26900		24.7	49.4
Lead		117		0.617	1.23
Magnesium		1750		123	247
Manganese		155		1.23	3.70
Nickel		27.3		0.740	2.47
Potassium		478		123	247
Selenium		3.85		1.36	2.47
Sodium		160	U	160	247
Thallium		0.740	U	0.740	2.47
Vanadium		24.8		2.47	12.3
Zinc		40.6		6.17	12.3

Analysis Method:	6010C	Analysis Batch:	490-393435	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-393258	Lab File ID:	TALS_120916-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.497 g
Analysis Date:	12/10/2016 0435			Final Weight/Volume:	100 mL
Prep Date:	12/09/2016 1511				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.512	U	0.512	1.28

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394269	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.623 g
Analysis Date:	12/15/2016 0835			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1222				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.358		0.0367	0.122

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-504

Lab Sample ID: 490-117419-7 Date Sampled: 11/30/2016 1515
Client Matrix: Soil % Moisture: 15.4 Date Received: 12/05/2016 0815

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-393176	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392796	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0			Initial Weight/Volume:	.502 g
Analysis Date:	12/08/2016 2056			Final Weight/Volume:	100 mL
Prep Date:	12/08/2016 1208				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		8850		11.8	23.6
Antimony		1.18	U	1.18	11.8
Arsenic		23.3		1.41	2.36
Barium		98.1		1.18	2.36
Beryllium		0.589	J	0.236	1.18
Cadmium		0.236	J	0.118	1.18
Calcium		3190		118	236
Chromium		19.0		1.06	1.18
Cobalt		8.15		1.18	2.36
Copper		62.3		1.30	2.36
Iron		35100		23.6	47.1
Lead		283		0.589	1.18
Magnesium		2440		118	236
Manganese		337		1.18	3.53
Nickel		29.7		0.707	2.36
Potassium		714		118	236
Selenium		4.71		1.30	2.36
Sodium		153	U	153	236
Thallium		0.707	U	0.707	2.36
Vanadium		22.3		2.36	11.8
Zinc		62.3		5.89	11.8

Analysis Method:	6010C	Analysis Batch:	490-393435	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-393258	Lab File ID:	TALS_120916-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.505 g
Analysis Date:	12/10/2016 0440			Final Weight/Volume:	100 mL
Prep Date:	12/09/2016 1511				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.468	U	0.468	1.17

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394269	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.609 g
Analysis Date:	12/15/2016 0838			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1222				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.240		0.0349	0.116

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-502

Lab Sample ID: 490-117419-8 Date Sampled: 11/30/2016 1110
Client Matrix: Soil % Moisture: 18.4 Date Received: 12/05/2016 0815

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-393176	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392796	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0			Initial Weight/Volume:	.509 g
Analysis Date:	12/08/2016 2101			Final Weight/Volume:	100 mL
Prep Date:	12/08/2016 1208				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7400		12.0	24.1
Antimony		1.20	U	1.20	12.0
Arsenic		30.4		1.44	2.41
Barium		99.3		1.20	2.41
Beryllium		0.650	J	0.241	1.20
Cadmium		0.168	J	0.120	1.20
Calcium		1840		120	241
Chromium		13.0		1.08	1.20
Cobalt		6.76		1.20	2.41
Copper		129		1.32	2.41
Iron		24400		24.1	48.1
Lead		198		0.602	1.20
Magnesium		1520		120	241
Manganese		116		1.20	3.61
Nickel		32.1		0.722	2.41
Potassium		402		120	241
Selenium		3.56		1.32	2.41
Sodium		156	U	156	241
Thallium		0.722	U	0.722	2.41
Vanadium		20.1		2.41	12.0
Zinc		71.2		6.02	12.0

Analysis Method:	6010C	Analysis Batch:	490-393435	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-393258	Lab File ID:	TALS_120916-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.505 g
Analysis Date:	12/10/2016 0445			Final Weight/Volume:	100 mL
Prep Date:	12/09/2016 1511				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.485	U	0.485	1.21

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394269	Lab File ID:	121416-5eLCS.CSV
Dilution:	2.0			Initial Weight/Volume:	0.620 g
Analysis Date:	12/15/2016 1127			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1222				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		1.24		0.0711	0.237

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-503

Lab Sample ID: 490-117419-9 Date Sampled: 11/30/2016 1230
Client Matrix: Soil % Moisture: 25.1 Date Received: 12/05/2016 0815

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-393176	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392796	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0			Initial Weight/Volume:	.505 g
Analysis Date:	12/08/2016 2106			Final Weight/Volume:	100 mL
Prep Date:	12/08/2016 1208				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		12900		13.2	26.4
Antimony		1.32	U	1.32	13.2
Arsenic		13.4		1.59	2.64
Barium		69.6		1.32	2.64
Beryllium		0.423	J	0.264	1.32
Cadmium		0.317	J	0.132	1.32
Calcium		1050		132	264
Chromium		14.9		1.19	1.32
Cobalt		5.95		1.32	2.64
Copper		45.3		1.45	2.64
Iron		15700		26.4	52.9
Lead		49.8		0.661	1.32
Magnesium		1940		132	264
Manganese		79.3		1.32	3.97
Nickel		16.0		0.793	2.64
Potassium		745		132	264
Selenium		1.85	J	1.45	2.64
Sodium		172	U	172	264
Thallium		0.793	U	0.793	2.64
Vanadium		19.9		2.64	13.2
Zinc		54.4		6.61	13.2

Analysis Method:	6010C	Analysis Batch:	490-393435	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-393258	Lab File ID:	TALS_120916-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.504 g
Analysis Date:	12/10/2016 0450			Final Weight/Volume:	100 mL
Prep Date:	12/09/2016 1511				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.530	U	0.530	1.32

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394269	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.606 g
Analysis Date:	12/15/2016 0843			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1222				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0397	U	0.0397	0.132

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-500

Lab Sample ID: 490-117419-10 Date Sampled: 11/30/2016 1030
Client Matrix: Soil % Moisture: 18.7 Date Received: 12/05/2016 0815

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-393176	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392796	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0			Initial Weight/Volume:	.513 g
Analysis Date:	12/08/2016 2112			Final Weight/Volume:	100 mL
Prep Date:	12/08/2016 1208				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		12800		12.0	24.0
Antimony		1.20	U	1.20	12.0
Arsenic		20.1		1.44	2.40
Barium		60.5		1.20	2.40
Beryllium		0.384	J	0.240	1.20
Cadmium		0.120	U	0.120	1.20
Calcium		1870		120	240
Chromium		16.7		1.08	1.20
Cobalt		6.16		1.20	2.40
Copper		28.1		1.32	2.40
Iron		35800		24.0	48.0
Lead		581		0.600	1.20
Magnesium		2570		120	240
Manganese		164		1.20	3.60
Nickel		21.4		0.719	2.40
Potassium		889		120	240
Selenium		4.13		1.32	2.40
Sodium		156	U	156	240
Thallium		0.719	U	0.719	2.40
Vanadium		19.4		2.40	12.0
Zinc		59.1		6.00	12.0

Analysis Method:	6010C	Analysis Batch:	490-393435	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-393258	Lab File ID:	TALS_120916-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.514 g
Analysis Date:	12/10/2016 0456			Final Weight/Volume:	100 mL
Prep Date:	12/09/2016 1511				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.479	U	0.479	1.20

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394269	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.620 g
Analysis Date:	12/15/2016 0845			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1222				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0357	U	0.0357	0.119

Client: Roux Associates, Inc. Job Number: 490-117419-1

Client Sample ID: END-501

Lab Sample ID: 490-117419-11 Date Sampled: 11/30/2016 1100
Client Matrix: Soil % Moisture: 18.6 Date Received: 12/05/2016 0815

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-393176	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-392796	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0			Initial Weight/Volume:	.495 g
Analysis Date:	12/08/2016 2127			Final Weight/Volume:	100 mL
Prep Date:	12/08/2016 1208				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10700		12.4	24.8
Antimony		1.24	U	1.24	12.4
Arsenic		11.0		1.49	2.48
Barium		41.7		1.24	2.48
Beryllium		0.422	J	0.248	1.24
Cadmium		0.174	J	0.124	1.24
Calcium		787		124	248
Chromium		15.4		1.12	1.24
Cobalt		6.73		1.24	2.48
Copper		15.7		1.37	2.48
Iron		21300		24.8	49.7
Lead		22.0		0.621	1.24
Magnesium		2660		124	248
Manganese		122		1.24	3.72
Nickel		20.5		0.745	2.48
Potassium		764		124	248
Selenium		2.14	J	1.37	2.48
Sodium		161	U	161	248
Thallium		0.745	U	0.745	2.48
Vanadium		16.6		2.48	12.4
Zinc		52.3		6.21	12.4

Analysis Method:	6010C	Analysis Batch:	490-393435	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-393258	Lab File ID:	TALS_120916-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.506 g
Analysis Date:	12/10/2016 0501			Final Weight/Volume:	100 mL
Prep Date:	12/09/2016 1511				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.486	U	0.486	1.21

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-394618	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-394269	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.595 g
Analysis Date:	12/15/2016 0848			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1222				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0372	U	0.0372	0.124

General Chemistry

Client Sample ID: **END-506**

Lab Sample ID: 490-117419-1 Date Sampled: 12/01/2016 0900
Client Matrix: Soil Date Received: 12/05/2016 0815

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	76.7		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392430 Analysis Date: 12/07/2016 1134 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-509**

Lab Sample ID: 490-117419-2 Date Sampled: 12/01/2016 1300
Client Matrix: Soil Date Received: 12/05/2016 0815

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	72.4		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392430 Analysis Date: 12/07/2016 1134 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-507**

Lab Sample ID: 490-117419-4 Date Sampled: 12/01/2016 0930
Client Matrix: Soil Date Received: 12/05/2016 0815

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	74.2		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392430 Analysis Date: 12/07/2016 1134 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-508**

Lab Sample ID: 490-117419-5 Date Sampled: 12/01/2016 1100
Client Matrix: Soil Date Received: 12/05/2016 0815

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	75.3		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392430 Analysis Date: 12/07/2016 1134 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-505**

Lab Sample ID: 490-117419-6 Date Sampled: 12/01/2016 0845
Client Matrix: Soil Date Received: 12/05/2016 0815

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	78.7		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392430 Analysis Date: 12/07/2016 1134 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-504**

Lab Sample ID: 490-117419-7 Date Sampled: 11/30/2016 1515
Client Matrix: Soil Date Received: 12/05/2016 0815

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	84.6		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392430 Analysis Date: 12/07/2016 1134 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-502**

Lab Sample ID: 490-117419-8 Date Sampled: 11/30/2016 1110
Client Matrix: Soil Date Received: 12/05/2016 0815

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	81.6		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392430 Analysis Date: 12/07/2016 1134 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-503**

Lab Sample ID: 490-117419-9 Date Sampled: 11/30/2016 1230
Client Matrix: Soil Date Received: 12/05/2016 0815

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	74.9		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392430 Analysis Date: 12/07/2016 1134 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-500**

Lab Sample ID: 490-117419-10 Date Sampled: 11/30/2016 1030
Client Matrix: Soil Date Received: 12/05/2016 0815

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	81.3		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392430 Analysis Date: 12/07/2016 1134 DryWt Corrected: N

General Chemistry

Client Sample ID: **END-501**

Lab Sample ID: 490-117419-11 Date Sampled: 11/30/2016 1100
Client Matrix: Soil Date Received: 12/05/2016 0815

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	81.4		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-392430 Analysis Date: 12/07/2016 1134 DryWt Corrected: N

DATA REPORTING QUALIFIERS

Client: Roux Associates, Inc. Job Number: 490-117419-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Analyzed for but not detected.
	E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.
	*	Duplicate RPD exceeds control limits
	J	Indicates an estimated value.
	*	ISTD response or retention time outside acceptable limits
	*	LCS or LCSD is outside acceptance limits.
	*	MS or MSD is outside acceptance limits.
	*	RPD of the LCS and LCSD exceeds the control limits
	*	Surrogate is outside acceptance limits.
	B	The analyte was found in an associated blank, as well as in the sample.
	N	This flag indicates the presumptive evidence of a compound.
GC/MS Semi VOA		
	U	Analyzed for but not detected.
	J	Indicates an estimated value.
	*	MS or MSD is outside acceptance limits.
	*	Surrogate is outside acceptance limits.
Metals		
	U	Indicates analyzed for but not detected.
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
	J	Sample result is greater than the MDL but below the CRDL
	N	Spiked sample recovery is not within control limits.

QUALITY CONTROL RESULTS

Client: Roux Associates, Inc. Job Number: 490-117419-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 490-392025					
490-117419-10MSD	Matrix Spike Duplicate	T	Solid	5035A	
Prep Batch: 490-392114					
490-117419-1	END-506	T	Solid	5035A	
490-117419-2	END-509	T	Solid	5035A	
490-117419-4	END-507	T	Solid	5035A	
490-117419-5	END-508	T	Solid	5035A	
490-117419-6	END-505	T	Solid	5035A	
490-117419-7	END-504	T	Solid	5035A	
490-117419-8	END-502	T	Solid	5035A	
490-117419-9	END-503	T	Solid	5035A	
490-117419-9MS	Matrix Spike	T	Solid	5035A	
490-117419-9MSD	Matrix Spike Duplicate	T	Solid	5035A	
Prep Batch: 490-392117					
490-117419-1	END-506	T	Solid	5035A	
490-117419-2	END-509	T	Solid	5035A	
490-117419-3TB	Trip Blank	T	Solid	5035A	
490-117419-6	END-505	T	Solid	5035A	
490-117419-7	END-504	T	Solid	5035A	
490-117419-8	END-502	T	Solid	5035A	
490-117419-9	END-503	T	Solid	5035A	
490-117419-10	END-500	T	Solid	5035A	
490-117419-11	END-501	T	Solid	5035A	
Prep Batch: 490-392271					
490-117419-10MS	Matrix Spike	T	Solid	5035A	
Analysis Batch:490-393437					
LCS 490-393437/3	Lab Control Sample	T	Solid	8260C	
LCSD 490-393437/4	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-393437/8	Method Blank	T	Solid	8260C	
490-117419-1	END-506	T	Solid	8260C	490-392117
490-117419-2	END-509	T	Solid	8260C	490-392117
490-117419-3TB	Trip Blank	T	Solid	8260C	490-392117
490-117419-6	END-505	T	Solid	8260C	490-392117
490-117419-7	END-504	T	Solid	8260C	490-392117
490-117419-8	END-502	T	Solid	8260C	490-392117
490-117419-9	END-503	T	Solid	8260C	490-392117
490-117419-10MSD	Matrix Spike Duplicate	T	Solid	8260C	490-392025
490-117419-10	END-500	T	Solid	8260C	490-392117
490-117419-10MS	Matrix Spike	T	Solid	8260C	490-392271
490-117419-11	END-501	T	Solid	8260C	490-392117

Client: Roux Associates, Inc. Job Number: 490-117419-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:490-393795					
LCS 490-393795/4	Lab Control Sample	T	Solid	8260C	
LCSD 490-393795/5	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-393795/8	Method Blank	T	Solid	8260C	
490-117419-1	END-506	T	Solid	8260C	490-392114
490-117419-2	END-509	T	Solid	8260C	490-392114
490-117419-4	END-507	T	Solid	8260C	490-392114
490-117419-5	END-508	T	Solid	8260C	490-392114
490-117419-6	END-505	T	Solid	8260C	490-392114
490-117419-7	END-504	T	Solid	8260C	490-392114
490-117419-8	END-502	T	Solid	8260C	490-392114
490-117419-9	END-503	T	Solid	8260C	490-392114
490-117419-9MS	Matrix Spike	T	Solid	8260C	490-392114
490-117419-9MSD	Matrix Spike Duplicate	T	Solid	8260C	490-392114

Report Basis
T = Total

Client: Roux Associates, Inc. Job Number: 490-117419-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 490-392774					
LCS 490-392774/2-A	Lab Control Sample	T	Solid	3550C	
MB 490-392774/1-A	Method Blank	T	Solid	3550C	
490-117419-1	END-506	T	Solid	3550C	
490-117419-2	END-509	T	Solid	3550C	
490-117419-4	END-507	T	Solid	3550C	
490-117419-5	END-508	T	Solid	3550C	
490-117419-6	END-505	T	Solid	3550C	
490-117419-7	END-504	T	Solid	3550C	
490-117419-8	END-502	T	Solid	3550C	
490-117419-9	END-503	T	Solid	3550C	
490-117419-10	END-500	T	Solid	3550C	
490-117419-11	END-501	T	Solid	3550C	
490-117419-11MS	Matrix Spike	T	Solid	3550C	
490-117419-11MSD	Matrix Spike Duplicate	T	Solid	3550C	
Analysis Batch:490-393298					
LCS 490-392774/2-A	Lab Control Sample	T	Solid	8270D	490-392774
MB 490-392774/1-A	Method Blank	T	Solid	8270D	490-392774
490-117419-1	END-506	T	Solid	8270D	490-392774
490-117419-2	END-509	T	Solid	8270D	490-392774
490-117419-4	END-507	T	Solid	8270D	490-392774
490-117419-5	END-508	T	Solid	8270D	490-392774
490-117419-6	END-505	T	Solid	8270D	490-392774
490-117419-7	END-504	T	Solid	8270D	490-392774
490-117419-8	END-502	T	Solid	8270D	490-392774
490-117419-9	END-503	T	Solid	8270D	490-392774
490-117419-10	END-500	T	Solid	8270D	490-392774
490-117419-11	END-501	T	Solid	8270D	490-392774
490-117419-11MS	Matrix Spike	T	Solid	8270D	490-392774
490-117419-11MSD	Matrix Spike Duplicate	T	Solid	8270D	490-392774

Report Basis
T = Total

Client: Roux Associates, Inc. Job Number: 490-117419-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 490-392796					
LCS 490-392796/2-A	Lab Control Sample	T	Solid	3051A	
MB 490-392796/1-A	Method Blank	T	Solid	3051A	
320-24082-B-1-B MS	Matrix Spike	T	Solid	3051A	
320-24082-B-1-C MSD	Matrix Spike Duplicate	T	Solid	3051A	
490-117419-1	END-506	T	Solid	3051A	
490-117419-2	END-509	T	Solid	3051A	
490-117419-4	END-507	T	Solid	3051A	
490-117419-5	END-508	T	Solid	3051A	
490-117419-6	END-505	T	Solid	3051A	
490-117419-7	END-504	T	Solid	3051A	
490-117419-8	END-502	T	Solid	3051A	
490-117419-9	END-503	T	Solid	3051A	
490-117419-10	END-500	T	Solid	3051A	
490-117419-11	END-501	T	Solid	3051A	
Analysis Batch:490-393176					
LCS 490-392796/2-A	Lab Control Sample	T	Solid	6010C	490-392796
MB 490-392796/1-A	Method Blank	T	Solid	6010C	490-392796
320-24082-B-1-B MS	Matrix Spike	T	Solid	6010C	490-392796
320-24082-B-1-C MSD	Matrix Spike Duplicate	T	Solid	6010C	490-392796
490-117419-1	END-506	T	Solid	6010C	490-392796
490-117419-2	END-509	T	Solid	6010C	490-392796
490-117419-4	END-507	T	Solid	6010C	490-392796
490-117419-5	END-508	T	Solid	6010C	490-392796
490-117419-6	END-505	T	Solid	6010C	490-392796
490-117419-7	END-504	T	Solid	6010C	490-392796
490-117419-8	END-502	T	Solid	6010C	490-392796
490-117419-9	END-503	T	Solid	6010C	490-392796
490-117419-10	END-500	T	Solid	6010C	490-392796
490-117419-11	END-501	T	Solid	6010C	490-392796

Client: Roux Associates, Inc. Job Number: 490-117419-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 490-393258					
LCS 490-393258/2-A	Lab Control Sample	T	Solid	3051A	
LCS 490-393258/25-A	Lab Control Sample	T	Solid	3051A	
MB 490-393258/1-A	Method Blank	T	Solid	3051A	
490-117419-1	END-506	T	Solid	3051A	
490-117419-2	END-509	T	Solid	3051A	
490-117419-4	END-507	T	Solid	3051A	
490-117419-5	END-508	T	Solid	3051A	
490-117419-6	END-505	T	Solid	3051A	
490-117419-7	END-504	T	Solid	3051A	
490-117419-8	END-502	T	Solid	3051A	
490-117419-9	END-503	T	Solid	3051A	
490-117419-10	END-500	T	Solid	3051A	
490-117419-11	END-501	T	Solid	3051A	
490-117730-A-5-C MS	Matrix Spike	T	Solid	3051A	
490-117730-A-5-D MSD	Matrix Spike Duplicate	T	Solid	3051A	
Analysis Batch:490-393435					
LCS 490-393258/2-A	Lab Control Sample	T	Solid	6010C	490-393258
LCS 490-393258/25-A	Lab Control Sample	T	Solid	6010C	490-393258
MB 490-393258/1-A	Method Blank	T	Solid	6010C	490-393258
490-117419-1	END-506	T	Solid	6010C	490-393258
490-117419-2	END-509	T	Solid	6010C	490-393258
490-117419-4	END-507	T	Solid	6010C	490-393258
490-117419-5	END-508	T	Solid	6010C	490-393258
490-117419-6	END-505	T	Solid	6010C	490-393258
490-117419-7	END-504	T	Solid	6010C	490-393258
490-117419-8	END-502	T	Solid	6010C	490-393258
490-117419-9	END-503	T	Solid	6010C	490-393258
490-117419-10	END-500	T	Solid	6010C	490-393258
490-117419-11	END-501	T	Solid	6010C	490-393258
490-117730-A-5-C MS	Matrix Spike	T	Solid	6010C	490-393258
490-117730-A-5-D MSD	Matrix Spike Duplicate	T	Solid	6010C	490-393258

Client: Roux Associates, Inc. Job Number: 490-117419-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 490-394269					
LCS 490-394269/2-A	Lab Control Sample	T	Solid	7471B	
MB 490-394269/1-A	Method Blank	T	Solid	7471B	
490-117419-1	END-506	T	Solid	7471B	
490-117419-2	END-509	T	Solid	7471B	
490-117419-4	END-507	T	Solid	7471B	
490-117419-5	END-508	T	Solid	7471B	
490-117419-6	END-505	T	Solid	7471B	
490-117419-7	END-504	T	Solid	7471B	
490-117419-8	END-502	T	Solid	7471B	
490-117419-9	END-503	T	Solid	7471B	
490-117419-10	END-500	T	Solid	7471B	
490-117419-11	END-501	T	Solid	7471B	
460-125003-A-1-K MS ^2	Matrix Spike	T	Solid	7471B	
460-125003-A-1-L MSD ^2	Matrix Spike Duplicate	T	Solid	7471B	
Analysis Batch:490-394618					
LCS 490-394269/2-A	Lab Control Sample	T	Solid	7471B	490-394269
MB 490-394269/1-A	Method Blank	T	Solid	7471B	490-394269
490-117419-1	END-506	T	Solid	7471B	490-394269
490-117419-2	END-509	T	Solid	7471B	490-394269
490-117419-4	END-507	T	Solid	7471B	490-394269
490-117419-5	END-508	T	Solid	7471B	490-394269
490-117419-6	END-505	T	Solid	7471B	490-394269
490-117419-7	END-504	T	Solid	7471B	490-394269
490-117419-8	END-502	T	Solid	7471B	490-394269
490-117419-9	END-503	T	Solid	7471B	490-394269
490-117419-10	END-500	T	Solid	7471B	490-394269
490-117419-11	END-501	T	Solid	7471B	490-394269
460-125003-A-1-K MS ^2	Matrix Spike	T	Solid	7471B	490-394269
460-125003-A-1-L MSD ^2	Matrix Spike Duplicate	T	Solid	7471B	490-394269

Report Basis
T = Total

Client: Roux Associates, Inc. Job Number: 490-117419-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:490-392430					
490-117419-1	END-506	T	Solid	Moisture	
490-117419-2	END-509	T	Solid	Moisture	
490-117419-4	END-507	T	Solid	Moisture	
490-117419-5	END-508	T	Solid	Moisture	
490-117419-6	END-505	T	Solid	Moisture	
490-117419-6DU	Duplicate	T	Solid	Moisture	
490-117419-7	END-504	T	Solid	Moisture	
490-117419-8	END-502	T	Solid	Moisture	
490-117419-9	END-503	T	Solid	Moisture	
490-117419-10	END-500	T	Solid	Moisture	
490-117419-11	END-501	T	Solid	Moisture	
490-117419-11MS	Matrix Spike	T	Solid	Moisture	
490-117419-11MSD	Matrix Spike Duplicate	T	Solid	Moisture	

Report Basis
T = Total

Client: Roux Associates, Inc. Job Number: 490-117419-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
490-117419-1	END-506	134*	99	95	108
490-117419-2	END-509	0*	104	104	1512*
490-117419-3	Trip Blank	93	99	94	96
490-117419-6	END-505	150*	104	102	128
490-117419-7	END-504	133*	103	104	113
490-117419-8	END-502	123*	102	99	119
490-117419-9	END-503	174*	103	98	137*
490-117419-10	END-500	107	101	98	100
490-117419-11	END-501	120	100	98	99
MB 490-393437/8		93	96	93	95
LCS 490-393437/3		84	94	92	98
LCSD 490-393437/4		83	94	93	97
490-117419-10 MS	END-500 MS	91	103	102	95
490-117419-10 MSD	END-500 MSD	96	99	98	97

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	70-130
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130

Client: Roux Associates, Inc. Job Number: 490-117419-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
490-117419-1	END-506	96	119	131*	91
490-117419-2	END-509	130	89	100	107
490-117419-4	END-507	96	105	109	95
490-117419-5	END-508	99	102	109	97
490-117419-6	END-505	98	109	119	92
490-117419-7	END-504	100	108	114	94
490-117419-8	END-502	97	117	125	93
490-117419-9	END-503	96	119	122	95
MB 490-393795/8		96	121	123	93
LCS 490-393795/4		92	101	99	97
LCSD 490-393795/5		92	100	101	97
490-117419-9 MS	END-503 MS	97	99	90	98
490-117419-9 MSD	END-503 MSD	99	96	90	98

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	70-130
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130

Client: Roux Associates, Inc. Job Number: 490-117419-1

Surrogate Recovery Report

8270D Semivolatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	FBP %Rec	2FP %Rec	NBZ %Rec	PHL %Rec	TPHL %Rec	TBP %Rec
490-117419-1	END-506	71	68	70	72	75	82
490-117419-2	END-509	83	60	126*	68	86	85
490-117419-4	END-507	77	57	64	65	77	72
490-117419-5	END-508	62	52	58	60	70	67
490-117419-6	END-505	74	66	67	69	75	75
490-117419-7	END-504	56	52	53	57	63	64
490-117419-8	END-502	55	45	51	50	61	62
490-117419-9	END-503	72	76	69	77	89	90
490-117419-10	END-500	68	71	66	76	90	91
490-117419-11	END-501	59	59	58	61	72	72
MB 490-392774/1-A		77	61	81	68	83	55
LCS 490-392774/2-A		77	72	73	76	81	85
490-117419-11 MS	END-501 MS	63	58	61	63	76	75
490-117419-11 MSD	END-501 MSD	57	56	56	59	67	68

Surrogate	Acceptance Limits
FBP = 2-Fluorobiphenyl (Surr)	29-120
2FP = 2-Fluorophenol (Surr)	10-120
NBZ = Nitrobenzene-d5 (Surr)	27-120
PHL = Phenol-d5 (Surr)	10-120
TPHL = Terphenyl-d14 (Surr)	13-120
TBP = 2,4,6-Tribromophenol (Surr)	10-120

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392025

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117419-10	Analysis Batch:	490-393437	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-392271	Lab File ID:	121116-19.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.20 g
Analysis Date:	12/11/2016 2359			Final Weight/Volume:	5.0 mL
Prep Date:	12/07/2016 1009				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117419-10	Analysis Batch:	490-393437	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-392025	Lab File ID:	121116-20.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.41 g
Analysis Date:	12/12/2016 0030			Final Weight/Volume:	5.0 mL
Prep Date:	12/06/2016 1249				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	73	71	10 - 150	5	50		
Benzene	72	65	21 - 150	14	50		
Bromobenzene	54	54	10 - 150	4	50		
Bromochloromethane	81	72	10 - 150	16	50		
Bromodichloromethane	73	67	10 - 150	13	50		
Bromoform	69	65	10 - 150	10	50		
Bromomethane	18	23	10 - 150	18	50		
2-Butanone (MEK)	80	71	10 - 150	15	50		
Carbon disulfide	61	54	10 - 150	16	50		
Carbon tetrachloride	79	72	10 - 150	13	50		
Chlorobenzene	58	57	10 - 150	5	50		
Chloroethane	100	52	10 - 150	67	50		*
Chloroform	74	67	10 - 150	13	50		
Chloromethane	85	78	10 - 150	13	50		
cis-1,2-Dichloroethene	71	65	10 - 150	13	50		
cis-1,3-Dichloropropene	50	46	10 - 150	12	50		
Dibromochloromethane	69	66	10 - 150	8	50		
1,2-Dibromo-3-chloropropane	63	62	10 - 150	6	50		
1,2-Dibromoethane	64	61	10 - 150	9	50		
1,2-Dichlorobenzene	60	57	10 - 150	9	50		
1,3-Dichlorobenzene	62	59	10 - 150	8	50		
1,4-Dichlorobenzene	60	59	10 - 150	7	50		
Dichlorodifluoromethane	74	67	10 - 150	13	50		
1,1-Dichloroethane	71	65	10 - 150	13	50		
1,2-Dichloroethane	73	66	24 - 138	14	50		
1,1-Dichloroethene	78	71	10 - 150	12	50		
1,2-Dichloropropane	68	61	10 - 150	14	50		
1,3-Dichloropropane	64	60	10 - 150	11	50		
2,2-Dichloropropane	70	60	10 - 150	18	50		
1,1-Dichloropropene	68	61	10 - 150	14	50		
Ethylbenzene	60	59	10 - 150	5	50		
Hexachlorobutadiene	25	18	10 - 150	38	50		

Client: Roux Associates, Inc. Job Number: 490-117419-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392025

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117419-10	Analysis Batch:	490-393437	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-392271	Lab File ID:	121116-19.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.20 g
Analysis Date:	12/11/2016 2359			Final Weight/Volume:	5.0 mL
Prep Date:	12/07/2016 1009				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117419-10	Analysis Batch:	490-393437	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-392025	Lab File ID:	121116-20.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.41 g
Analysis Date:	12/12/2016 0030			Final Weight/Volume:	5.0 mL
Prep Date:	12/06/2016 1249				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2-Hexanone	63	61	10 - 150	7	50		
Isopropylbenzene	64	62	10 - 150	8	50		
Methylene bromide	71	64	10 - 150	14	50		
Methylene Chloride	64	75	24 - 150	12	50		
4-Methyl-2-pentanone (MIBK)	72	68	10 - 150	10	50		
Methyl tert butyl ether	91	82	10 - 150	14	50		
m,p-Xylene	56	56	10 - 150	5	50		
Naphthalene	38	37	10 - 150	8	50		
n-Butylbenzene	52	43	10 - 150	21	50		
N-Propylbenzene	63	63	10 - 150	3	50		
o-Chlorotoluene	62	62	10 - 150	4	50		
o-Xylene	60	59	10 - 150	5	50		
p-Chlorotoluene	57	56	10 - 150	6	50		
p-Isopropyltoluene	61	56	10 - 150	12	50		
sec-Butylbenzene	61	57	10 - 150	11	50		
Styrene	33	29	10 - 150	16	50		
tert-Butylbenzene	64	62	10 - 150	7	50		
1,1,1,2-Tetrachloroethane	71	68	10 - 150	8	50		
1,1,2,2-Tetrachloroethane	64	64	10 - 150	4	50		
Tetrachloroethene	64	62	10 - 150	7	50		
Toluene	60	58	17 - 150	8	50		
trans-1,2-Dichloroethene	60	53	10 - 150	15	50		
trans-1,3-Dichloropropene	45	42	10 - 150	12	50		
1,2,3-Trichlorobenzene	35	31	10 - 150	14	50		
1,2,4-Trichlorobenzene	40	36	10 - 150	15	50		
1,1,1-Trichloroethane	80	73	10 - 150	13	50		
1,1,2-Trichloroethane	64	60	10 - 150	11	50		
Trichloroethene	69	61	10 - 150	15	50		
Trichlorofluoromethane	80	76	10 - 150	10	50		
1,2,3-Trichloropropane	68	65	10 - 150	7	50		
1,2,4-Trimethylbenzene	64	65	10 - 150	2	50		
1,3,5-Trimethylbenzene	63	63	10 - 150	4	50		

Client: Roux Associates, Inc. Job Number: 490-117419-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392025

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117419-10	Analysis Batch:	490-393437	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-392271	Lab File ID:	121116-19.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.20 g
Analysis Date:	12/11/2016 2359			Final Weight/Volume:	5.0 mL
Prep Date:	12/07/2016 1009				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117419-10	Analysis Batch:	490-393437	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-392025	Lab File ID:	121116-20.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.41 g
Analysis Date:	12/12/2016 0030			Final Weight/Volume:	5.0 mL
Prep Date:	12/06/2016 1249				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Vinyl acetate	116	99	10 - 150	19	50		
Vinyl chloride	70	63	10 - 150	14	50		
Xylenes (total)	59	58	10 - 150	5	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	91	96	70 - 130
Dibromofluoromethane (Surr)	103	99	70 - 130
1,2-Dichloroethane-d4 (Surr)	102	98	70 - 130
Toluene-d8 (Surr)	95	97	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117419-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392114

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117419-9	Analysis Batch:	490-393795	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	490-392114	Lab File ID:	121316-21.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	4.792 g
Analysis Date:	12/13/2016 1913			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1130				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117419-9	Analysis Batch:	490-393795	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	490-392114	Lab File ID:	121316-22.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	4.792 g
Analysis Date:	12/13/2016 1942			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1130				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	147	173	10 - 150	16	50		*
Benzene	108	112	21 - 150	4	50		
Bromobenzene	106	116	10 - 150	9	50		
Bromochloromethane	119	122	10 - 150	2	50		
Bromodichloromethane	98	102	10 - 150	5	50		
Bromoform	79	90	10 - 150	14	50		
Bromomethane	58	56	10 - 150	4	50		
2-Butanone (MEK)	122	133	10 - 150	9	50		
Carbon disulfide	94	96	10 - 150	2	50		
Carbon tetrachloride	87	90	10 - 150	3	50		
Chlorobenzene	101	109	10 - 150	7	50		
Chloroethane	62	57	10 - 150	8	50		
Chloroform	113	115	10 - 150	2	50		
Chloromethane	95	99	10 - 150	5	50		
cis-1,2-Dichloroethene	107	108	10 - 150	1	50		
cis-1,3-Dichloropropene	100	109	10 - 150	9	50		
Dibromochloromethane	90	99	10 - 150	9	50		
1,2-Dibromo-3-chloropropane	89	107	10 - 150	19	50		
1,2-Dibromoethane	117	128	10 - 150	9	50		
1,2-Dichlorobenzene	117	125	10 - 150	6	50		
1,3-Dichlorobenzene	111	116	10 - 150	5	50		
1,4-Dichlorobenzene	104	116	10 - 150	11	50		
Dichlorodifluoromethane	119	124	10 - 150	4	50		
1,1-Dichloroethane	104	103	10 - 150	1	50		
1,2-Dichloroethane	115	120	24 - 138	4	50		
1,1-Dichloroethene	96	100	10 - 150	4	50		
1,2-Dichloropropane	101	105	10 - 150	3	50		
1,3-Dichloropropane	108	119	10 - 150	9	50		
2,2-Dichloropropane	92	88	10 - 150	4	50		
1,1-Dichloropropene	96	98	10 - 150	2	50		
Ethylbenzene	104	109	10 - 150	5	50		
Hexachlorobutadiene	110	119	10 - 150	8	50		

Client: Roux Associates, Inc. Job Number: 490-117419-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392114

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117419-9	Analysis Batch:	490-393795	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	490-392114	Lab File ID:	121316-21.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	4.792 g
Analysis Date:	12/13/2016 1913			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1130				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117419-9	Analysis Batch:	490-393795	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	490-392114	Lab File ID:	121316-22.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	4.792 g
Analysis Date:	12/13/2016 1942			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1130				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2-Hexanone	103	118	10 - 150	13	50		
Isopropylbenzene	102	112	10 - 150	10	50		
Methylene bromide	116	122	10 - 150	5	50		
Methylene Chloride	144	155	24 - 150	7	50		*
4-Methyl-2-pentanone (MIBK)	100	113	10 - 150	13	50		
Methyl tert butyl ether	119	127	10 - 150	6	50		
m,p-Xylene	98	107	10 - 150	8	50		
Naphthalene	136	155	10 - 150	13	50		*
n-Butylbenzene	108	115	10 - 150	6	50		
N-Propylbenzene	104	113	10 - 150	8	50		
o-Chlorotoluene	102	110	10 - 150	8	50		
o-Xylene	104	110	10 - 150	5	50		
p-Chlorotoluene	103	109	10 - 150	7	50		
p-Isopropyltoluene	110	115	10 - 150	5	50		
sec-Butylbenzene	106	116	10 - 150	9	50		
Styrene	104	111	10 - 150	7	50		
tert-Butylbenzene	101	111	10 - 150	9	50		
1,1,1,2-Tetrachloroethane	91	99	10 - 150	8	50		
1,1,2,2-Tetrachloroethane	100	114	10 - 150	13	50		
Tetrachloroethene	92	98	10 - 150	7	50		
Toluene	107	112	17 - 150	4	50		
trans-1,2-Dichloroethene	99	100	10 - 150	0	50		
trans-1,3-Dichloropropene	98	107	10 - 150	9	50		
1,2,3-Trichlorobenzene	120	135	10 - 150	11	50		
1,2,4-Trichlorobenzene	121	132	10 - 150	9	50		
1,1,1-Trichloroethane	98	99	10 - 150	1	50		
1,1,2-Trichloroethane	126	139	10 - 150	10	50		
Trichloroethene	99	104	10 - 150	4	50		
Trichlorofluoromethane	73	65	10 - 150	11	50		
1,2,3-Trichloropropane	107	116	10 - 150	8	50		
1,2,4-Trimethylbenzene	109	120	10 - 150	9	50		
1,3,5-Trimethylbenzene	117	127	10 - 150	8	50		

Client: Roux Associates, Inc. Job Number: 490-117419-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392114

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-117419-9	Analysis Batch:	490-393795	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	490-392114	Lab File ID:	121316-21.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	4.792 g
Analysis Date:	12/13/2016 1913			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1130				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117419-9	Analysis Batch:	490-393795	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	490-392114	Lab File ID:	121316-22.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	4.792 g
Analysis Date:	12/13/2016 1942			Final Weight/Volume:	5.0 mL
Prep Date:	11/30/2016 1130				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Vinyl acetate	118	118	10 - 150	0	50		
Vinyl chloride	96	98	10 - 150	2	50		
Xylenes (total)	101	108	10 - 150	7	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	97	99	70 - 130
Dibromofluoromethane (Surr)	99	96	70 - 130
1,2-Dichloroethane-d4 (Surr)	90	90	70 - 130
Toluene-d8 (Surr)	98	98	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117419-1

Method Blank - Batch: 490-393437

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-393437/8	Analysis Batch:	490-393437	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121116-08.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/11/2016 1821	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	0.00840	U	0.00840	0.0500
Benzene	0.000670	U	0.000670	0.00200
Bromobenzene	0.000720	U	0.000720	0.00200
Bromochloromethane	0.000550	U	0.000550	0.00200
Bromodichloromethane	0.000550	U	0.000550	0.00200
Bromoform	0.000550	U	0.000550	0.00200
Bromomethane	0.00120	U	0.00120	0.00200
2-Butanone (MEK)	0.00510	U	0.00510	0.0500
Carbon disulfide	0.00360	U	0.00360	0.00500
Carbon tetrachloride	0.000670	U	0.000670	0.00200
Chlorobenzene	0.000670	U	0.000670	0.00200
Chloroethane	0.00190	U	0.00190	0.00500
Chloroform	0.000670	U	0.000670	0.00200
Chloromethane	0.000670	U	0.000670	0.00200
cis-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
cis-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
Dibromochloromethane	0.000340	U	0.000340	0.00200
1,2-Dibromo-3-chloropropane	0.000700	U	0.000700	0.00500
1,2-Dibromoethane	0.00100	U	0.00100	0.00200
1,2-Dichlorobenzene	0.000340	U	0.000340	0.00200
1,3-Dichlorobenzene	0.000670	U	0.000670	0.00200
1,4-Dichlorobenzene	0.000670	U	0.000670	0.00200
Dichlorodifluoromethane	0.00100	U	0.00100	0.00200
1,1-Dichloroethane	0.000670	U	0.000670	0.00200
1,2-Dichloroethane	0.000670	U	0.000670	0.00200
1,1-Dichloroethene	0.000570	U	0.000570	0.00200
1,2-Dichloropropane	0.000940	U	0.000940	0.00200
1,3-Dichloropropane	0.000940	U	0.000940	0.00200
2,2-Dichloropropane	0.000670	U	0.000670	0.00200
1,1-Dichloropropene	0.000510	U	0.000510	0.00200
Ethylbenzene	0.000670	U	0.000670	0.00200
Hexachlorobutadiene	0.00114	U	0.00114	0.00500
2-Hexanone	0.0167	U	0.0167	0.0500
Iodomethane	0.00670	U	0.00670	0.0200
Isopropylbenzene	0.000410	U	0.000410	0.00200
Methylene bromide	0.000560	U	0.000560	0.00200
Methylene Chloride	0.000860	U	0.000860	0.0100
4-Methyl-2-pentanone (MIBK)	0.00190	U	0.00190	0.0500
Methyl tert butyl ether	0.000960	U	0.000960	0.00200
m,p-Xylene	0.000560	U	0.000560	0.00400
Naphthalene	0.00170	U	0.00170	0.00500
n-Butylbenzene	0.000980	U	0.000980	0.00200
N-Propylbenzene	0.000670	U	0.000670	0.00200
o-Chlorotoluene	0.000890	U	0.000890	0.00200
o-Xylene	0.000670	U	0.000670	0.00200

Client: Roux Associates, Inc. Job Number: 490-117419-1

Method Blank - Batch: 490-393437

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-393437/8	Analysis Batch:	490-393437	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121116-08.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/11/2016 1821	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.000840	U	0.000840	0.00200
p-Isopropyltoluene	0.000670	U	0.000670	0.00200
sec-Butylbenzene	0.000670	U	0.000670	0.00200
Styrene	0.00110	U	0.00110	0.00200
tert-Butylbenzene	0.000900	U	0.000900	0.00200
1,1,1,2-Tetrachloroethane	0.000670	U	0.000670	0.00200
1,1,2,2-Tetrachloroethane	0.00100	U	0.00100	0.00200
Tetrachloroethene	0.000730	U	0.000730	0.00200
Toluene	0.000740	U	0.000740	0.00200
trans-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
trans-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
1,2,3-Trichlorobenzene	0.000380	U	0.000380	0.00200
1,2,4-Trichlorobenzene	0.000670	U	0.000670	0.00200
1,1,1-Trichloroethane	0.000920	U	0.000920	0.00200
1,1,2-Trichloroethane	0.00140	U	0.00140	0.00500
Trichloroethene	0.000960	U	0.000960	0.00200
Trichlorofluoromethane	0.00100	U	0.00100	0.00200
1,2,3-Trichloropropane	0.000550	U	0.000550	0.00200
1,2,4-Trimethylbenzene	0.00100	U	0.00100	0.00200
1,3,5-Trimethylbenzene	0.000750	U	0.000750	0.00200
Vinyl acetate	0.00440	U	0.00440	0.0200
Vinyl chloride	0.00110	U	0.00110	0.00200
Xylenes (total)	0.00123	U	0.00123	0.00600

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	93	70 - 130
Dibromofluoromethane (Surr)	96	70 - 130
1,2-Dichloroethane-d4 (Surr)	93	70 - 130
Toluene-d8 (Surr)	95	70 - 130

Method Blank TICs- Batch: 490-393437

Cas Number	Analyte	RT	Est. Result (mg	Qual
104-76-7	1-Hexanol, 2-ethyl-	9.26	0.007094	J N

Client: Roux Associates, Inc. Job Number: 490-117419-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-393437

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-393437/3	Analysis Batch:	490-393437	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121116-03.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/11/2016 1548	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-393437/4	Analysis Batch:	490-393437	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121116-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/11/2016 1618	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	89	73	45 - 145	20	38		
Benzene	98	87	70 - 130	12	37		
Bromobenzene	85	76	67 - 130	12	40		
Bromochloromethane	102	90	70 - 133	13	15		
Bromodichloromethane	94	83	70 - 130	12	20		
Bromoform	98	88	59 - 137	10	17		
Bromomethane	86	76	32 - 150	12	45		
2-Butanone (MEK)	104	88	50 - 149	16	39		
Carbon disulfide	94	83	66 - 138	13	41		
Carbon tetrachloride	105	94	70 - 131	11	41		
Chlorobenzene	103	90	70 - 130	13	40		
Chloroethane	90	69	37 - 150	26	50		
Chloroform	95	85	70 - 130	12	15		
Chloromethane	118	105	53 - 150	11	47		
cis-1,2-Dichloroethene	100	88	70 - 132	12	18		
cis-1,3-Dichloropropene	92	82	70 - 130	13	42		
Dibromochloromethane	94	83	70 - 130	13	14		
1,2-Dibromo-3-chloropropane	102	90	47 - 144	13	38		
1,2-Dibromoethane	93	83	69 - 130	11	17		
1,2-Dichlorobenzene	103	91	70 - 134	12	40		
1,3-Dichlorobenzene	107	94	69 - 137	13	41		
1,4-Dichlorobenzene	107	94	66 - 134	12	41		
Dichlorodifluoromethane	89	76	32 - 150	15	50		
1,1-Dichloroethane	92	82	70 - 130	12	42		
1,2-Dichloroethane	90	80	65 - 134	11	16		
1,1-Dichloroethene	103	89	70 - 131	14	43		
1,2-Dichloropropane	87	77	70 - 130	12	15		
1,3-Dichloropropane	87	77	70 - 130	11	15		
2,2-Dichloropropane	107	96	57 - 150	11	42		
1,1-Dichloropropene	98	87	70 - 130	13	41		
Ethylbenzene	103	91	70 - 130	12	38		
Hexachlorobutadiene	95	83	64 - 137	14	44		
2-Hexanone	99	85	47 - 148	16	38		
Isopropylbenzene	107	95	70 - 130	12	39		
Methylene bromide	89	80	70 - 130	12	19		

Client: Roux Associates, Inc. Job Number: 490-117419-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-393437

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-393437/3	Analysis Batch:	490-393437	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121116-03.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/11/2016 1548	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-393437/4	Analysis Batch:	490-393437	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121116-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/11/2016 1618	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	75	80	69 - 130	6	19		
4-Methyl-2-pentanone (MIBK)	91	79	48 - 150	14	41		
Methyl tert butyl ether	96	87	54 - 145	10	36		
m,p-Xylene	103	91	70 - 130	12	38		
Naphthalene	104	89	55 - 149	15	37		
n-Butylbenzene	102	89	57 - 150	14	39		
N-Propylbenzene	101	88	62 - 150	14	38		
o-Chlorotoluene	97	87	70 - 132	11	41		
o-Xylene	100	90	70 - 130	11	38		
p-Chlorotoluene	96	84	67 - 135	14	41		
p-Isopropyltoluene	107	93	66 - 147	14	38		
sec-Butylbenzene	104	93	68 - 147	12	38		
Styrene	105	91	70 - 131	14	40		
tert-Butylbenzene	100	86	70 - 138	14	38		
1,1,1,2-Tetrachloroethane	101	90	70 - 130	11	41		
1,1,2,2-Tetrachloroethane	81	74	61 - 134	9	16		
Tetrachloroethene	109	96	70 - 130	13	41		
Toluene	98	88	70 - 130	11	40		
trans-1,2-Dichloroethene	93	80	70 - 130	14	41		
trans-1,3-Dichloropropene	93	81	67 - 130	14	41		
1,2,3-Trichlorobenzene	108	89	57 - 146	19	42		
1,2,4-Trichlorobenzene	105	88	47 - 150	17	43		
1,1,1-Trichloroethane	102	92	70 - 130	10	41		
1,1,2-Trichloroethane	84	74	70 - 130	13	17		
Trichloroethene	105	92	70 - 130	13	41		
Trichlorofluoromethane	101	90	53 - 150	11	49		
1,2,3-Trichloropropane	85	76	60 - 139	11	16		
1,2,4-Trimethylbenzene	102	92	70 - 140	10	38		
1,3,5-Trimethylbenzene	102	89	69 - 141	14	38		
Vinyl acetate	146	115	10 - 150	24	50		
Vinyl chloride	92	80	63 - 150	14	46		
Xylenes (total)	102	90	70 - 130	12	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	84	83	70 - 130
Dibromofluoromethane (Surr)	94	94	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117419-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92	93	70 - 130
Toluene-d8 (Surr)	98	97	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117419-1

Method Blank - Batch: 490-393795

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-393795/8	Analysis Batch:	490-393795	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121316-08.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/13/2016 1249	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	2.00	U	2.00	2.50
Benzene	0.0340	U	0.0340	0.100
Bromobenzene	0.0360	U	0.0360	0.100
Bromochloromethane	0.0280	U	0.0280	0.100
Bromodichloromethane	0.0280	U	0.0280	0.100
Bromoform	0.0280	U	0.0280	0.100
Bromomethane	0.0600	U	0.0600	0.100
2-Butanone (MEK)	0.260	U	0.260	2.50
Carbon disulfide	0.180	U	0.180	0.250
Carbon tetrachloride	0.0340	U	0.0340	0.100
Chlorobenzene	0.0340	U	0.0340	0.100
Chloroethane	0.0950	U	0.0950	0.250
Chloroform	0.0340	U	0.0340	0.100
Chloromethane	0.0340	U	0.0340	0.100
cis-1,2-Dichloroethene	0.0340	U	0.0340	0.100
cis-1,3-Dichloropropene	0.0340	U	0.0340	0.100
Dibromochloromethane	0.0170	U	0.0170	0.100
1,2-Dibromo-3-chloropropane	0.0350	U	0.0350	0.250
1,2-Dibromoethane	0.0500	U	0.0500	0.100
1,2-Dichlorobenzene	0.0170	U	0.0170	0.100
1,3-Dichlorobenzene	0.0340	U	0.0340	0.100
1,4-Dichlorobenzene	0.0470	U	0.0470	0.100
Dichlorodifluoromethane	0.0500	U	0.0500	0.100
1,1-Dichloroethane	0.0340	U	0.0340	0.100
1,2-Dichloroethane	0.0340	U	0.0340	0.100
1,1-Dichloroethene	0.0290	U	0.0290	0.100
1,2-Dichloropropane	0.0470	U	0.0470	0.100
1,3-Dichloropropane	0.0470	U	0.0470	0.100
2,2-Dichloropropane	0.0340	U	0.0340	0.100
1,1-Dichloropropene	0.0260	U	0.0260	0.100
Ethylbenzene	0.0340	U	0.0340	0.100
Hexachlorobutadiene	0.0550	U	0.0550	0.250
2-Hexanone	0.840	U	0.840	2.50
Iodomethane	0.340	U	0.340	1.00
Isopropylbenzene	0.0210	U	0.0210	0.100
Methylene bromide	0.0280	U	0.0280	0.100
Methylene Chloride	0.0500	U	0.0500	0.500
4-Methyl-2-pentanone (MIBK)	0.850	U	0.850	2.50
Methyl tert butyl ether	0.0500	U	0.0500	0.100
m,p-Xylene	0.0280	U	0.0280	0.150
Naphthalene	0.0850	U	0.0850	0.250
n-Butylbenzene	0.0500	U	0.0500	0.100
N-Propylbenzene	0.0340	U	0.0340	0.100
o-Chlorotoluene	0.0460	U	0.0460	0.100
o-Xylene	0.0340	U	0.0340	0.100

Method Blank - Batch: 490-393795

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-393795/8	Analysis Batch:	490-393795	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121316-08.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/13/2016 1249	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.0420	U	0.0420	0.100
p-Isopropyltoluene	0.0340	U	0.0340	0.100
sec-Butylbenzene	0.0340	U	0.0340	0.100
Styrene	0.0550	U	0.0550	0.100
tert-Butylbenzene	0.0500	U	0.0500	0.100
1,1,1,2-Tetrachloroethane	0.0340	U	0.0340	0.100
1,1,2,2-Tetrachloroethane	0.0500	U	0.0500	0.100
Tetrachloroethene	0.0340	U	0.0340	0.100
Toluene	0.0370	U	0.0370	0.100
trans-1,2-Dichloroethene	0.0340	U	0.0340	0.100
trans-1,3-Dichloropropene	0.0340	U	0.0340	0.100
1,2,3-Trichlorobenzene	0.02771	J	0.0190	0.100
1,2,4-Trichlorobenzene	0.0340	U	0.0340	0.100
1,1,1-Trichloroethane	0.0460	U	0.0460	0.100
1,1,2-Trichloroethane	0.0700	U	0.0700	0.250
Trichloroethene	0.0500	U	0.0500	0.100
Trichlorofluoromethane	0.0500	U	0.0500	0.100
1,2,3-Trichloropropane	0.0280	U	0.0280	0.100
1,2,4-Trimethylbenzene	0.0500	U	0.0500	0.100
1,3,5-Trimethylbenzene	0.0380	U	0.0380	0.100
Vinyl acetate	0.220	U	0.220	1.00
Vinyl chloride	0.0550	U	0.0550	0.100
Xylenes (total)	0.0620	U	0.0620	0.150

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	96	70 - 130
Dibromofluoromethane (Surr)	121	70 - 130
1,2-Dichloroethane-d4 (Surr)	123	70 - 130
Toluene-d8 (Surr)	93	70 - 130

Method Blank TICs- Batch: 490-393795

Cas Number	Analyte	RT	Est. Result (mg	Qual
90-12-0	1-Methylnaphthalene	12.40	0.1261	J
91-57-6	2-Methylnaphthalene	12.23	0.1571	J
541-05-9	Cyclotrisiloxane, hexamethyl-	5.61	0.7108	J N

Client: Roux Associates, Inc. Job Number: 490-117419-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-393795

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-393795/4	Analysis Batch:	490-393795	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121316-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/13/2016 1051	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-393795/5	Analysis Batch:	490-393795	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121316-05.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/13/2016 1121	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	104	127	45 - 145	20	38		
Benzene	112	122	70 - 130	8	37		
Bromobenzene	100	111	67 - 130	10	40		
Bromochloromethane	110	119	70 - 133	8	15		
Bromodichloromethane	97	108	70 - 130	11	20		
Bromoform	74	85	59 - 137	14	17		
Bromomethane	142	147	32 - 150	3	45		
2-Butanone (MEK)	103	121	50 - 149	17	39		
Carbon disulfide	114	118	66 - 138	4	41		
Carbon tetrachloride	102	111	70 - 131	8	41		
Chlorobenzene	105	115	70 - 130	9	40		
Chloroethane	116	121	37 - 150	4	50		
Chloroform	114	123	70 - 130	8	15		
Chloromethane	106	109	53 - 150	3	47		
cis-1,2-Dichloroethene	117	124	70 - 132	6	18		
cis-1,3-Dichloropropene	95	108	70 - 130	12	42		
Dibromochloromethane	84	99	70 - 130	16	14		*
1,2-Dibromo-3-chloropropane	81	98	47 - 144	19	38		
1,2-Dibromoethane	106	124	69 - 130	16	17		
1,2-Dichlorobenzene	110	123	70 - 134	11	40		
1,3-Dichlorobenzene	110	122	69 - 137	10	41		
1,4-Dichlorobenzene	109	120	66 - 134	9	41		
Dichlorodifluoromethane	143	152	32 - 150	7	50		*
1,1-Dichloroethane	108	114	70 - 130	6	42		
1,2-Dichloroethane	104	116	65 - 134	10	16		
1,1-Dichloroethene	112	115	70 - 131	3	43		
1,2-Dichloropropane	101	111	70 - 130	10	15		
1,3-Dichloropropane	100	115	70 - 130	14	15		
2,2-Dichloropropane	103	111	57 - 150	8	42		
1,1-Dichloropropene	107	116	70 - 130	8	41		
Ethylbenzene	112	121	70 - 130	8	38		
Hexachlorobutadiene	104	122	64 - 137	16	44		
2-Hexanone	97	119	47 - 148	20	38		
Isopropylbenzene	108	118	70 - 130	8	39		
Methylene bromide	104	115	70 - 130	10	19		

Client: Roux Associates, Inc. Job Number: 490-117419-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-393795

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-393795/4	Analysis Batch:	490-393795	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121316-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/13/2016 1051	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-393795/5	Analysis Batch:	490-393795	Instrument ID:	HP69
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121316-05.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/13/2016 1121	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	115	123	69 - 130	7	19		
4-Methyl-2-pentanone (MIBK)	99	117	48 - 150	17	41		
Methyl tert butyl ether	108	125	54 - 145	14	36		
m,p-Xylene	109	117	70 - 130	8	38		
Naphthalene	115	136	55 - 149	17	37		
n-Butylbenzene	112	128	57 - 150	14	39		
N-Propylbenzene	110	121	62 - 150	10	38		
o-Chlorotoluene	107	115	70 - 132	7	41		
o-Xylene	109	120	70 - 130	10	38		
p-Chlorotoluene	109	117	67 - 135	6	41		
p-Isopropyltoluene	111	126	66 - 147	13	38		
sec-Butylbenzene	110	125	68 - 147	12	38		
Styrene	107	117	70 - 131	9	40		
tert-Butylbenzene	102	116	70 - 138	12	38		
1,1,1,2-Tetrachloroethane	93	105	70 - 130	11	41		
1,1,2,2-Tetrachloroethane	92	111	61 - 134	18	16		*
Tetrachloroethene	104	113	70 - 130	8	41		
Toluene	115	122	70 - 130	6	40		
trans-1,2-Dichloroethene	111	118	70 - 130	6	41		
trans-1,3-Dichloropropene	89	104	67 - 130	16	41		
1,2,3-Trichlorobenzene	109	124	57 - 146	13	42		
1,2,4-Trichlorobenzene	111	129	47 - 150	15	43		
1,1,1-Trichloroethane	108	117	70 - 130	8	41		
1,1,2-Trichloroethane	106	116	70 - 130	9	17		
Trichloroethene	106	118	70 - 130	10	41		
Trichlorofluoromethane	115	123	53 - 150	6	49		
1,2,3-Trichloropropane	99	112	60 - 139	12	16		
1,2,4-Trimethylbenzene	111	126	70 - 140	13	38		
1,3,5-Trimethylbenzene	124	135	69 - 141	9	38		
Vinyl acetate	106	121	10 - 150	13	50		
Vinyl chloride	104	118	63 - 150	13	46		
Xylenes (total)	109	119	70 - 130	9	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	92	92	70 - 130
Dibromofluoromethane (Surr)	101	100	70 - 130

Client: Roux Associates, Inc. Job Number: 490-117419-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99	101	70 - 130
Toluene-d8 (Surr)	97	97	70 - 130

Method Blank - Batch: 490-392774

Method: 8270D
Preparation: 3550C

Lab Sample ID:	MB 490-392774/1-A	Analysis Batch:	490-393298	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392774	Lab File ID:	120916-005.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/09/2016 1948	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1103			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	0.0320	U	0.0320	0.0670
Acenaphthylene	0.0290	U	0.0290	0.0670
Aniline	0.253	U	0.253	0.670
Anthracene	0.0290	U	0.0290	0.0670
Benzidine	0.204	U	0.204	0.333
Benzo(a)anthracene	0.0300	U	0.0300	0.0670
Benzo(a)pyrene	0.0270	U	0.0270	0.0670
Benzo(b)fluoranthene	0.0280	U	0.0280	0.0670
Benzo(g,h,i)perylene	0.0330	U	0.0330	0.0670
Benzoic acid	0.0600	U	0.0600	0.333
Benzo(k)fluoranthene	0.0270	U	0.0270	0.0670
Benzyl alcohol	0.194	U	0.194	0.333
Bis(2-chloroethoxy)methane	0.200	U	0.200	0.333
Bis(2-chloroethyl)ether	0.213	U	0.213	0.333
bis (2-chloroisopropyl) ether	0.198	U	0.198	0.333
Bis(2-ethylhexyl)phthalate	0.207	U	0.207	0.333
4-Bromophenyl phenyl ether	0.205	U	0.205	0.333
Butyl benzyl phthalate	0.215	U	0.215	0.333
Carbazole	0.207	U	0.207	0.333
4-Chloroaniline	0.227	U	0.227	0.333
4-Chloro-3-methylphenol	0.168	U	0.168	0.333
2-Chloronaphthalene	0.209	U	0.209	0.333
2-Chlorophenol	0.191	U	0.191	0.333
4-Chlorophenyl phenyl ether	0.201	U	0.201	0.333
Chrysene	0.0370	U	0.0370	0.0670
Dibenzo(a,h)anthracene	0.0320	U	0.0320	0.0670
Dibenzofuran	0.210	U	0.210	0.333
1,2-Dichlorobenzene	0.190	U	0.190	0.333
1,3-Dichlorobenzene	0.190	U	0.190	0.333
1,4-Dichlorobenzene	0.196	U	0.196	0.333
3,3'-Dichlorobenzidine	0.204	U	0.204	0.670
2,4-Dichlorophenol	0.175	U	0.175	0.333
Diethyl phthalate	0.212	U	0.212	0.333
2,4-Dimethylphenol	0.335	U	0.335	0.670
Dimethyl phthalate	0.207	U	0.207	0.333
Di-n-butyl phthalate	0.211	U	0.211	0.333
4,6-Dinitro-o-cresol	0.229	U	0.229	0.333
2,4-Dinitrophenol	0.251	U	0.251	0.333
2,4-Dinitrotoluene	0.208	U	0.208	0.333
2,6-Dinitrotoluene	0.223	U	0.223	0.333
Di-n-octyl phthalate	0.178	U	0.178	0.333
1,2-Diphenylhydrazine (as Azobenzene)	0.234	U	0.234	0.333
Fluoranthene	0.0340	U	0.0340	0.0670
Fluorene	0.0290	U	0.0290	0.0670
Hexachlorobenzene	0.250	U	0.250	0.333

Client: Roux Associates, Inc. Job Number: 490-117419-1

Method Blank - Batch: 490-392774

Method: 8270D
Preparation: 3550C

Lab Sample ID:	MB 490-392774/1-A	Analysis Batch:	490-393298	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392774	Lab File ID:	120916-005.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/09/2016 1948	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1103			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Hexachlorobutadiene	0.167	U	0.167	0.333
Hexachlorocyclopentadiene	0.150	U	0.150	0.333
Hexachloroethane	0.181	U	0.181	0.333
Ideno(1,2,3-cd)pyrene	0.0290	U	0.0290	0.0670
Isophorone	0.188	U	0.188	0.333
1-Methylnaphthalene	0.0280	U	0.0280	0.0670
2-Methylnaphthalene	0.0260	U	0.0260	0.0670
Naphthalene	0.0290	U	0.0290	0.0670
2-Nitroaniline	0.207	U	0.207	0.333
3-Nitroaniline	0.230	U	0.230	0.670
4-Nitroaniline	0.238	U	0.238	0.670
Nitrobenzene	0.201	U	0.201	0.333
2-Nitrophenol	0.243	U	0.243	0.333
4-Nitrophenol	0.382	U	0.382	0.670
N-Nitrosodimethylamine	0.0200	U	0.0200	0.333
N-Nitrosodi-n-propylamine	0.194	U	0.194	0.333
N-Nitrosodiphenylamine	0.0530	U	0.0530	0.333
Pentachlorophenol	0.266	U	0.266	0.670
Phenanthrene	0.0340	U	0.0340	0.0670
Phenol	0.203	U	0.203	0.333
Pyrene	0.0340	U	0.0340	0.0670
Pyridine	0.199	U	0.199	0.670
1,2,4-Trichlorobenzene	0.181	U	0.181	0.333
2,4,5-Trichlorophenol	0.218	U	0.218	0.333
2,4,6-Trichlorophenol	0.192	U	0.192	0.333

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	77	29 - 120
2-Fluorophenol (Surr)	61	10 - 120
Nitrobenzene-d5 (Surr)	81	27 - 120
Phenol-d5 (Surr)	68	10 - 120
Terphenyl-d14 (Surr)	83	13 - 120
2,4,6-Tribromophenol (Surr)	55	10 - 120

Lab Control Sample - Batch: 490-392774

Method: 8270D
Preparation: 3550C

Lab Sample ID:	LCS 490-392774/2-A	Analysis Batch:	490-393298	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392774	Lab File ID:	120916-006.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/09/2016 2006	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1103			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	1.67	1.228	74	36 - 120	
Acenaphthylene	1.67	1.234	74	38 - 120	
Aniline	1.67	1.129	68	10 - 150	
Anthracene	1.67	1.285	77	46 - 124	
Benzidine	1.67	0.3891	23	10 - 150	
Benzo(a)anthracene	1.67	1.286	77	45 - 120	
Benzo(a)pyrene	1.67	1.253	75	45 - 120	
Benzo(b)fluoranthene	1.67	1.303	78	42 - 120	
Benzo(g,h,i)perylene	1.67	1.323	79	38 - 120	
Benzoic acid	1.67	0.3537	21	10 - 150	
Benzo(k)fluoranthene	1.67	1.319	79	42 - 120	
Benzyl alcohol	1.67	1.216	73	43 - 131	
Bis(2-chloroethoxy)methane	1.67	1.178	71	32 - 120	
Bis(2-chloroethyl)ether	1.67	1.203	72	31 - 120	
bis (2-chloroisopropyl) ether	1.67	0.9288	56	32 - 120	
Bis(2-ethylhexyl)phthalate	1.67	1.214	73	43 - 120	
4-Bromophenyl phenyl ether	1.67	1.270	76	40 - 120	
Butyl benzyl phthalate	1.67	1.226	74	43 - 133	
Carbazole	1.67	1.330	80	44 - 120	
4-Chloroaniline	1.67	1.246	75	35 - 120	
4-Chloro-3-methylphenol	1.67	1.305	78	38 - 120	
2-Chloronaphthalene	1.67	1.228	74	34 - 120	
2-Chlorophenol	1.67	1.169	70	32 - 120	
4-Chlorophenyl phenyl ether	1.67	1.291	77	42 - 120	
Chrysene	1.67	1.314	79	43 - 120	
Dibenzo(a,h)anthracene	1.67	1.274	76	32 - 128	
Dibenzofuran	1.67	1.241	74	41 - 120	
1,2-Dichlorobenzene	1.67	1.120	67	33 - 120	
1,3-Dichlorobenzene	1.67	1.091	65	32 - 120	
1,4-Dichlorobenzene	1.67	1.106	66	32 - 120	
3,3'-Dichlorobenzidine	1.67	1.122	67	39 - 120	
2,4-Dichlorophenol	1.67	1.211	73	32 - 120	
Diethyl phthalate	1.67	1.314	79	41 - 122	
2,4-Dimethylphenol	1.67	1.195	72	32 - 120	
Dimethyl phthalate	1.67	1.285	77	55 - 120	
Di-n-butyl phthalate	1.67	1.299	78	46 - 127	
4,6-Dinitro-o-cresol	3.33	2.606	78	27 - 134	
2,4-Dinitrophenol	3.33	1.968	59	10 - 142	
2,4-Dinitrotoluene	1.67	1.348	81	43 - 120	
2,6-Dinitrotoluene	1.67	1.287	77	43 - 120	
Di-n-octyl phthalate	1.67	1.245	75	40 - 130	

Client: Roux Associates, Inc. Job Number: 490-117419-1

Lab Control Sample - Batch: 490-392774

Method: 8270D
Preparation: 3550C

Lab Sample ID:	LCS 490-392774/2-A	Analysis Batch:	490-393298	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392774	Lab File ID:	120916-006.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/09/2016 2006	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1103			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,2-Diphenylhydrazine (as Azobenzene)	1.67	1.278	77	10 - 150	
Fluoranthene	1.67	1.355	81	46 - 120	
Fluorene	1.67	1.239	74	42 - 120	
Hexachlorobenzene	1.67	1.354	81	44 - 120	
Hexachlorobutadiene	1.67	1.138	68	31 - 120	
Hexachlorocyclopentadiene	1.67	0.8965	54	24 - 120	
Hexachloroethane	1.67	1.106	66	33 - 120	
Ideno(1,2,3-cd)pyrene	1.67	1.249	75	41 - 121	
Isophorone	1.67	1.163	70	33 - 120	
1-Methylnaphthalene	1.67	1.210	73	32 - 120	
2-Methylnaphthalene	1.67	1.220	73	28 - 120	
Naphthalene	1.67	1.138	68	32 - 120	
2-Nitroaniline	1.67	1.305	78	40 - 120	
3-Nitroaniline	1.67	1.255	75	42 - 120	
4-Nitroaniline	1.67	1.271	76	43 - 120	
Nitrobenzene	1.67	1.156	69	26 - 120	
2-Nitrophenol	1.67	1.203	72	29 - 120	
4-Nitrophenol	3.33	2.171	65	32 - 136	
N-Nitrosodimethylamine	1.67	0.9678	58	10 - 150	
N-Nitrosodi-n-propylamine	1.67	1.110	67	35 - 120	
N-Nitrosodiphenylamine	1.42	1.295	91	52 - 140	
Pentachlorophenol	3.33	2.210	66	44 - 134	
Phenanthrene	1.67	1.303	78	45 - 120	
Phenol	1.67	1.220	73	30 - 120	
Pyrene	1.67	1.253	75	43 - 120	
Pyridine	1.67	1.140	68	20 - 120	
1,2,4-Trichlorobenzene	1.67	1.134	68	29 - 120	
2,4,5-Trichlorophenol	1.67	1.350	81	39 - 120	
2,4,6-Trichlorophenol	1.67	1.275	76	39 - 120	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	77	29 - 120
2-Fluorophenol (Surr)	72	10 - 120
Nitrobenzene-d5 (Surr)	73	27 - 120
Phenol-d5 (Surr)	76	10 - 120
Terphenyl-d14 (Surr)	81	13 - 120
2,4,6-Tribromophenol (Surr)	85	10 - 120

Client: Roux Associates, Inc. Job Number: 490-117419-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392774

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-117419-11	Analysis Batch:	490-393298	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392774	Lab File ID:	120916-032.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.55 g
Analysis Date:	12/10/2016 0409			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1104			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117419-11	Analysis Batch:	490-393298	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392774	Lab File ID:	120916-033.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.61 g
Analysis Date:	12/10/2016 0427			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1104			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	61	60	19 - 120	2	50		
Acenaphthylene	59	58	25 - 120	3	50		
Aniline	56	51	10 - 200	8	50		
Anthracene	63	63	28 - 125	2	49		
Benzidine	30	20	5 - 200	38	50		
Benzo(a)anthracene	66	63	23 - 120	5	50		
Benzo(a)pyrene	62	60	15 - 128	5	50		
Benzo(b)fluoranthene	63	65	12 - 133	2	50		
Benzo(g,h,i)perylene	67	65	22 - 120	4	50		
Benzoic acid	41	38	10 - 200	9	50		
Benzo(k)fluoranthene	70	62	28 - 120	12	45		
Benzyl alcohol	58	56	10 - 200	4	50		
Bis(2-chloroethoxy)methane	53	53	24 - 120	1	50		
Bis(2-chloroethyl)ether	59	62	22 - 120	6	50		
bis (2-chloroisopropyl) ether	50	50	20 - 120	1	50		
Bis(2-ethylhexyl)phthalate	65	64	26 - 120	3	50		
4-Bromophenyl phenyl ether	63	61	31 - 120	3	37		
Butyl benzyl phthalate	66	63	24 - 133	6	50		
Carbazole	64	61	25 - 123	5	46		
4-Chloroaniline	59	58	26 - 120	2	50		
4-Chloro-3-methylphenol	62	61	21 - 120	3	49		
2-Chloronaphthalene	60	58	24 - 120	4	50		
2-Chlorophenol	56	56	25 - 120	1	50		
4-Chlorophenyl phenyl ether	63	62	26 - 120	2	50		
Chrysene	67	64	20 - 120	5	49		
Dibenzo(a,h)anthracene	65	62	12 - 128	4	50		
Dibenzofuran	61	59	21 - 120	3	50		
1,2-Dichlorobenzene	56	56	10 - 120	0	50		
1,3-Dichlorobenzene	53	55	10 - 120	2	50		
1,4-Dichlorobenzene	54	54	10 - 120	0	50		
3,3'-Dichlorobenzidine	59	55	10 - 120	8	50		
2,4-Dichlorophenol	60	59	17 - 120	2	50		

Client: Roux Associates, Inc. Job Number: 490-117419-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392774

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-117419-11	Analysis Batch:	490-393298	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392774	Lab File ID:	120916-032.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.55 g
Analysis Date:	12/10/2016 0409			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1104			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117419-11	Analysis Batch:	490-393298	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392774	Lab File ID:	120916-033.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.61 g
Analysis Date:	12/10/2016 0427			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1104			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Diethyl phthalate	62	58	29 - 122	6	45		
2,4-Dimethylphenol	57	55	17 - 120	4	50		
Dimethyl phthalate	59	57	30 - 120	4	46		
Di-n-butyl phthalate	63	60	29 - 126	4	49		
4,6-Dinitro-o-cresol	0	0	10 - 134	NC	50	U *	U *
2,4-Dinitrophenol	0	0	10 - 150	NC	50	U *	U *
2,4-Dinitrotoluene	56	57	24 - 121	2	50		
2,6-Dinitrotoluene	56	54	24 - 120	4	50		
Di-n-octyl phthalate	67	65	27 - 130	3	50		
1,2-Diphenylhydrazine (as Azobenzene)	61	60	10 - 200	2	50		
Fluoranthene	65	62	10 - 143	4	50		
Fluorene	62	60	20 - 120	3	50		
Hexachlorobenzene	71	67	25 - 120	6	50		
Hexachlorobutadiene	59	59	10 - 120	1	50		
Hexachlorocyclopentadiene	0	0	10 - 120	NC	50	U *	U *
Hexachloroethane	49	52	10 - 120	6	50		
Ideno(1,2,3-cd)pyrene	63	61	22 - 121	3	50		
Isophorone	54	53	24 - 120	1	50		
1-Methylnaphthalene	57	56	10 - 120	1	50		
2-Methylnaphthalene	56	57	13 - 120	2	50		
Naphthalene	55	55	10 - 120	0	50		
2-Nitroaniline	61	59	31 - 120	4	50		
3-Nitroaniline	69	63	31 - 120	10	49		
4-Nitroaniline	62	59	28 - 120	5	49		
Nitrobenzene	54	55	19 - 120	1	50		
2-Nitrophenol	39	41	23 - 120	5	50		
4-Nitrophenol	59	56	16 - 139	4	45		
N-Nitrosodimethylamine	43	45	10 - 200	4	50		
N-Nitrosodi-n-propylamine	51	52	24 - 120	2	50		
N-Nitrosodiphenylamine	72	71	26 - 150	2	50		
Pentachlorophenol	63	57	19 - 145	10	50		
Phenanthrene	65	63	21 - 122	3	50		

Client: Roux Associates, Inc. Job Number: 490-117419-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392774

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-117419-11	Analysis Batch:	490-393298	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392774	Lab File ID:	120916-032.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.55 g
Analysis Date:	12/10/2016 0409			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1104			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-117419-11	Analysis Batch:	490-393298	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-392774	Lab File ID:	120916-033.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.61 g
Analysis Date:	12/10/2016 0427			Final Weight/Volume:	1.00 mL
Prep Date:	12/08/2016 1104			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Phenol	60	60	15 - 120	1	50		
Pyrene	69	66	20 - 123	5	50		
Pyridine	55	54	10 - 200	2	50		
1,2,4-Trichlorobenzene	56	57	14 - 120	3	50		
2,4,5-Trichlorophenol	71	67	27 - 120	6	50		
2,4,6-Trichlorophenol	63	60	24 - 122	6	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	63	57	29 - 120
2-Fluorophenol (Surr)	58	56	10 - 120
Nitrobenzene-d5 (Surr)	61	56	27 - 120
Phenol-d5 (Surr)	63	59	10 - 120
Terphenyl-d14 (Surr)	76	67	13 - 120
2,4,6-Tribromophenol (Surr)	75	68	10 - 120

Client: Roux Associates, Inc. Job Number: 490-117419-1

Method Blank - Batch: 490-392796

Method: 6010C
Preparation: 3051A

Lab Sample ID:	MB 490-392796/1-A	Analysis Batch:	490-393176	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-392796	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	.508 g
Analysis Date:	12/08/2016 1925	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/08/2016 1208				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	9.84	U	9.84	19.7
Antimony	0.984	U	0.984	9.84
Arsenic	1.18	U	1.18	1.97
Barium	0.984	U	0.984	1.97
Beryllium	0.197	U	0.197	0.984
Cadmium	0.0984	U	0.0984	0.984
Calcium	98.4	U	98.4	197
Chromium	0.886	U	0.886	0.984
Cobalt	0.984	U	0.984	1.97
Copper	1.08	U	1.08	1.97
Iron	19.7	U	19.7	39.4
Lead	0.492	U	0.492	0.984
Magnesium	98.4	U	98.4	197
Manganese	0.984	U	0.984	2.95
Nickel	0.591	U	0.591	1.97
Potassium	98.4	U	98.4	197
Selenium	1.08	U	1.08	1.97
Sodium	128	U	128	197
Thallium	0.591	U	0.591	1.97
Vanadium	1.97	U	1.97	9.84
Zinc	4.92	U	4.92	9.84

Client: Roux Associates, Inc. Job Number: 490-117419-1

Lab Control Sample - Batch: 490-392796

Method: 6010C
Preparation: 3051A

Lab Sample ID:	LCS 490-392796/2-A	Analysis Batch:	490-393176	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-392796	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	.525 g
Analysis Date:	12/08/2016 1930	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/08/2016 1208				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	762	744.0	98	80 - 120	
Antimony	38.1	33.60	88	80 - 120	
Arsenic	19.0	17.45	92	80 - 120	
Barium	762	756.6	99	80 - 120	
Beryllium	19.0	18.55	97	80 - 120	
Cadmium	19.0	19.10	100	80 - 120	
Calcium	1900	1830	96	80 - 120	
Chromium	76.2	80.51	106	80 - 120	
Cobalt	190	194.5	102	80 - 120	
Copper	95.2	92.32	97	80 - 120	
Iron	381	356.0	93	80 - 120	
Lead	19.0	17.89	94	80 - 120	
Magnesium	1900	1786	94	80 - 120	
Manganese	190	185.5	97	80 - 120	
Nickel	190	195.0	102	80 - 120	
Potassium	1900	1846	97	80 - 120	
Selenium	19.0	17.31	91	80 - 120	
Sodium	1900	1850	97	80 - 120	
Thallium	114	101.6	89	80 - 120	
Vanadium	190	184.2	97	80 - 120	
Zinc	190	177.2	93	80 - 120	

Client: Roux Associates, Inc. Job Number: 490-117419-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-392796

Method: 6010C
Preparation: 3051A

MS Lab Sample ID:	320-24082-B-1-B MS	Analysis Batch:	490-393176	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-392796	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	.516 g
Analysis Date:	12/08/2016 1955			Final Weight/Volume:	100 mL
Prep Date:	12/08/2016 1208				
Leach Date:	N/A				

MSD Lab Sample ID:	320-24082-B-1-C MSD	Analysis Batch:	490-393176	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-392796	Lab File ID:	TALS_120816-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	.517 g
Analysis Date:	12/08/2016 2000			Final Weight/Volume:	100 mL
Prep Date:	12/08/2016 1208				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aluminum	178	290	75 - 125	12	20	4	4
Antimony	75	85	75 - 125	12	20		
Arsenic	92	94	75 - 125	1	20		
Barium	97	96	75 - 125	0	20		
Beryllium	93	92	75 - 125	2	20		
Cadmium	99	97	75 - 125	3	20		
Calcium	110	134	75 - 125	13	20		N
Chromium	98	105	75 - 125	6	20		
Cobalt	99	99	75 - 125	0	20		
Copper	96	96	75 - 125	0	20		
Iron	-1428	1100	75 - 125	81	20	4	4 N
Lead	86	99	75 - 125	11	20		
Magnesium	83	84	75 - 125	0	20		
Manganese	80	93	75 - 125	7	20		
Nickel	99	99	75 - 125	0	20		
Potassium	92	93	75 - 125	1	20		
Selenium	85	91	75 - 125	7	20		
Sodium	95	95	75 - 125	0	20		
Thallium	82	81	75 - 125	1	20		
Vanadium	87	100	75 - 125	11	20		
Zinc	91	91	75 - 125	0	20		

Method Blank - Batch: 490-393258

Method: 6010C
Preparation: 3051A

Lab Sample ID:	MB 490-393258/1-A	Analysis Batch:	490-393435	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-393258	Lab File ID:	TALS_120916-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.498 g
Analysis Date:	12/10/2016 0256	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/09/2016 1511				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Silver	0.402	U	0.402	1.00

Lab Control Sample - Batch: 490-393258

Method: 6010C
Preparation: 3051A

Lab Sample ID:	LCS 490-393258/25-A	Analysis Batch:	490-393435	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-393258	Lab File ID:	TALS_120916-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.507 g
Analysis Date:	12/10/2016 0318	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/09/2016 1511				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	19.7	20.53	104	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-393258

Method: 6010C
Preparation: 3051A

MS Lab Sample ID:	490-117730-A-5-C MS	Analysis Batch:	490-393435	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-393258	Lab File ID:	TALS_120916-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.500 g
Analysis Date:	12/10/2016 0338			Final Weight/Volume:	100 mL
Prep Date:	12/09/2016 1511				
Leach Date:	N/A				

MSD Lab Sample ID:	490-117730-A-5-D MSD	Analysis Batch:	490-393435	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-393258	Lab File ID:	TALS_120916-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.519 g
Analysis Date:	12/10/2016 0343			Final Weight/Volume:	100 mL
Prep Date:	12/09/2016 1511				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Silver	67	79	75 - 125	13	20	N	

Client: Roux Associates, Inc. Job Number: 490-117419-1

Method Blank - Batch: 490-394269

Method: 7471B
Preparation: 7471B

Lab Sample ID:	MB 490-394269/1-A	Analysis Batch:	490-394618	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-394269	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.597 g
Analysis Date:	12/15/2016 0808	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1222				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0302	U	0.0302	0.101

Lab Control Sample - Batch: 490-394269

Method: 7471B
Preparation: 7471B

Lab Sample ID:	LCS 490-394269/2-A	Analysis Batch:	490-394618	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-394269	Lab File ID:	121416-5eLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.621 g
Analysis Date:	12/15/2016 0811	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1222				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.161	0.1636	102	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-394269

Method: 7471B
Preparation: 7471B

MS Lab Sample ID:	460-125003-A-1-K MS ^2	Analysis Batch:	490-394618	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-394269	Lab File ID:	121416-5eLCS.CSV
Dilution:	2.0	Leach Batch:	N/A	Initial Weight/Volume:	0.597 g
Analysis Date:	12/15/2016 1119			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1222				
Leach Date:	N/A				

MSD Lab Sample ID:	460-125003-A-1-L MSD ^2	Analysis Batch:	490-394618	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-394269	Lab File ID:	121416-5eLCS.CSV
Dilution:	2.0	Leach Batch:	N/A	Initial Weight/Volume:	0.603 g
Analysis Date:	12/15/2016 1122			Final Weight/Volume:	100 mL
Prep Date:	12/14/2016 1222				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	39	-15	80 - 120	9	20	4	4

Client: Roux Associates, Inc. Job Number: 490-117419-1

Duplicate - Batch: 490-392430

Method: Moisture
Preparation: N/A

Lab Sample ID:	490-117419-6	Analysis Batch:	490-392430	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/07/2016 1134	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	78.7	77.3	2	20	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-117419 Chain of Custody

Cooler Received/Opened On 12-05-2016 08:15

Time Samples Removed From Cooler 12-6-16@1000 Time Samples Placed In Storage 1051 (2 Hour Window)

1. Tracking # 676377697514 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 31470366 pH Strip Lot n/a Chlorine Strip Lot n/a

2. Temperature of rep. sample or temp blank when opened: 4.8 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 (front)

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) KD

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (initial) MDM

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) MDM

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) MDM

I certify that I attached a label with the unique LIMS number to each container (initial) MDM 12.6.16

21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES NO #_____

#11) END-509 - no label but the id is written on the lid. MDM

BIS = Broken in shipment
Cooler Receipt Form.doc

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIR

Loc: 490
117419

Client Information	Sampler: G. van der Ven	Lab PM: Huckaba, Jennifer	Carrier Tracking No(s):	COC No: 490-59873-19348
Client Contact: Matthew Casey	Phone: 315-877-5946	E-Mail: jennifer.huckaba@testamericainc.com		Page: Page 4 OF 4
Company: Roux Associates, Inc.				Job #:
Address: 12 Gill St., Suite 4700	Due Date Requested:			
City: Woburn	TAT Requested (days): Standard			
State, Zip: MA, 01801				
Phone:	PO #: 0172.0210M009			
Email: mcasey@rouxinc.com	WO #:			
Project Name: Roux - Olean, NY	Project #: 49005538			
Site: 350 / 351 Franklin	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Standard 8260 List + TICs	8270D - Standard List	6010C, 7471B - TAL METALS	DRY WEIGHT	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
END-506	12/1/16	0900	G	S	N	N	✓	✓	✓	✓	4	1
END-509	12/1/16	1300	G	S	N	N	✓	✓	✓	✓	4	2
TRIP BLANK	—	—	LAB	LAB							2	3
END-507	12/1/16	0930	G	S	N	N	✓	✓	✓	✓	4	4
END-508	12/1/16	1100	G	S	N	N	✓	✓	✓	✓	4	5
END-505	12/1/16	0845	G	S	N	N	✓	✓	✓	✓	4	6
END-504	11/30/16	1515	G	S	N	N	✓	✓	✓	✓	4	7
END-502	11/30/16	1110	G	S	N	N	✓	✓	✓	✓	4	8
END-503	11/30/16	1230	G	S	N	N	✓	✓	✓	✓	4	9
END-500	11/30/16	1030	G	S	N	N	✓	✓	✓	✓	4	10
END-501	11/30/16	1100	G	S	N	N	✓	✓	✓	✓	4	11

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) CAT A

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date: ~~12/2/16~~	Time: ~~1600~~	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
A. Marsaci	12/2/16 1600	ROUX	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				12-5-16@ 0815	TAN
Relinquished by:	Date/Time:	Company	Received by	Date/Time.	Company

Custody Seals Intact: ∧ Yes ∧ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.8c

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 490-117419-1

Login Number: 117419
List Number: 1
Creator: McBride, Mike

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	False	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

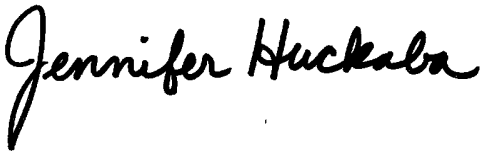
Job Number: 490-118160-1

Job Description: 350/351 Franklin Street - Olean, NY

Contract Number: A2288121

For:
Roux Associates, Inc.
12 Gill St., Suite 4700
Woburn, MA 01801

Attention: Matthew Casey



Approved for release.
Jennifer Huckaba
Project Manager II
12/29/2016 12:06 PM

Jennifer Huckaba, Project Manager II
2960 Foster Creighton Drive, Nashville, TN, 37204
(615)301-5042
jennifer.huckaba@testamericainc.com
12/29/2016

The laboratory is only responsible for the certified testing and is not responsible for the sample integrity prior to laboratory receipt.

Table of Contents

Job Narrative
490-118160-1

Comments
No additional comments.

Receipt
The samples were received on 12/12/2016 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.4° C.

GC/MS VOA
Method(s) 8260C: Surrogate recovery for the following samples was outside control limits: END 478 (490-118160-1), END 477 (490-118160-2), END 475 (490-118160-3), END 476 (490-118160-4), END 472 (490-118160-5), END 473 (490-118160-6), END 474 (490-118160-7), END 470 (490-118160-9), END 471 (490-118160-10), (490-118160-D-10-A MS) and (490-118160-D-10-B MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260C: Surrogate recovery for the following sample was outside control limits: END 469 (490-118160-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260C: Internal standard responses were outside of acceptance limits for the following samples: END 478 (490-118160-1), END 477 (490-118160-2), END 475 (490-118160-3), END 476 (490-118160-4), END 472 (490-118160-5), END 473 (490-118160-6), END 474 (490-118160-7), END 469 (490-118160-8), END 470 (490-118160-9), END 471 (490-118160-10), (490-118160-D-10-A MS) and (490-118160-D-10-B MS). The samples show evidence of matrix interference.

Method(s) 8260C: The following samples was diluted due to the nature of the sample matrix: END 478 (490-118160-1), END 477 (490-118160-2), END 475 (490-118160-3), END 476 (490-118160-4), END 472 (490-118160-5), END 473 (490-118160-6), END 474 (490-118160-7), END 469 (490-118160-8), END 470 (490-118160-9) and END 471 (490-118160-10). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 490-394890 recovered outside control limits for the following analytes: Vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 490-394558 recovered outside control limits for the following analytes: Vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The method blank for analytical batch 490-394762 contained Naphthalene and 1,2,3-Trichlorobenzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 490-394762 recovered outside control limits for the following analytes: Bromomethane. This analyte was not reported from the associated samples.

Method(s) 8260C: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 394762 recovered outside control limits for the following analytes: Bromochloromethane.

Method(s) 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 490-396079 recovered outside control limits for the following analytes: Vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 490-394890.

Method(s) 8260C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 490-396079.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix: END 478 (490-118160-1), (490-118160-D-1-B MS), (490-118160-D-1-C MSD), END 477 (490-118160-2), END 476 (490-118160-4) and END 473 (490-118160-6). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 490-394683 and analytical batch 490-394971 recovered outside control limits for Hexachlorocyclopentadiene but within marginal exceedance. These results have been reported and qualified.

Method(s) 8270D: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 490-394683 and analytical batch 490-394971 recovered outside control limits for the following analyte: 4-Nitrophenol. This analyte was biased high in

the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 490-394683 and analytical batch 490-395971 were outside control limits.

Method(s) 8270D: The continuing calibration verification (CCV) for analytical batch 490-395971 was outside the method criteria for n-nitrosodimethylamine. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable; therefore, the data is reported. (CCVIS 490-395971/3).

Method(s) 8270D: The continuing calibration verification (CCV) for analytical batch 490-395625 was outside the method criteria for hexachlorocyclopentadiene and bis (2-chloroisopropyl) ether. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable; therefore, the data is reported. (CCVIS 490-395625/3)

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 490-395625 recovered above the upper control limit for 4-Nitrophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCVIS 490-395625/3).

Method(s) 8270D: The matrix spike duplicate (MSD) recoveries and precision for preparation batch 490-394683 and analytical batch 490-395625 were outside control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010C: The low level continuing calibration verification (CCVL) associated with batch 396401 recovered above the upper control limit for Selenium and Thallium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-118160-1	**END 478**					
Benzene		0.0139		0.00190	mg/Kg	8260C
2-Butanone (MEK)		0.00984	J	0.0476	mg/Kg	8260C
Carbon disulfide		0.00387	J	0.00476	mg/Kg	8260C
Ethylbenzene		0.00303		0.00190	mg/Kg	8260C
Isopropylbenzene		0.0200		0.00190	mg/Kg	8260C
m,p-Xylene		0.0159		0.00381	mg/Kg	8260C
Naphthalene		0.212	J B	0.279	mg/Kg	8260C
n-Butylbenzene		0.118		0.112	mg/Kg	8260C
N-Propylbenzene		0.0985	J	0.112	mg/Kg	8260C
o-Xylene		0.0249		0.00190	mg/Kg	8260C
p-Isopropyltoluene		0.0422	J	0.112	mg/Kg	8260C
sec-Butylbenzene		0.101	J	0.112	mg/Kg	8260C
Toluene		0.0176		0.00190	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.243		0.112	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.0888	J	0.112	mg/Kg	8260C
Xylenes (total)		0.0408		0.00571	mg/Kg	8260C
Aluminum		11700		24.3	mg/Kg	6010C
Arsenic		10.1		2.43	mg/Kg	6010C
Barium		54.8		2.43	mg/Kg	6010C
Beryllium		0.364	J	1.21	mg/Kg	6010C
Cadmium		0.801	J	1.21	mg/Kg	6010C
Calcium		1230		243	mg/Kg	6010C
Chromium		12.4		1.21	mg/Kg	6010C
Cobalt		9.00		2.43	mg/Kg	6010C
Copper		19.6		2.43	mg/Kg	6010C
Iron		18600		48.5	mg/Kg	6010C
Lead		25.6		1.21	mg/Kg	6010C
Magnesium		2950		243	mg/Kg	6010C
Manganese		285		3.64	mg/Kg	6010C
Nickel		18.8		2.43	mg/Kg	6010C
Potassium		639		243	mg/Kg	6010C
Vanadium		17.7		12.1	mg/Kg	6010C
Zinc		69.9		12.1	mg/Kg	6010C
Percent Solids		78.9		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-118160-2	**END 477**					
Acetone		0.482		0.0910	mg/Kg	8260C
Benzene		0.0361		0.00364	mg/Kg	8260C
2-Butanone (MEK)		0.0698	J	0.0910	mg/Kg	8260C
m,p-Xylene		0.514		0.294	mg/Kg	8260C
Naphthalene		0.175	J B	0.491	mg/Kg	8260C
o-Xylene		0.106	J	0.196	mg/Kg	8260C
Toluene		0.0828	J	0.196	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.245		0.196	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.173	J	0.196	mg/Kg	8260C
Xylenes (total)		0.620		0.294	mg/Kg	8260C
Aluminum		13500		28.7	mg/Kg	6010C
Arsenic		11.1		2.87	mg/Kg	6010C
Barium		63.6		2.87	mg/Kg	6010C
Beryllium		0.488	J	1.44	mg/Kg	6010C
Cadmium		1.21	J	1.44	mg/Kg	6010C
Calcium		4690		287	mg/Kg	6010C
Chromium		29.6		1.44	mg/Kg	6010C
Cobalt		4.13		2.87	mg/Kg	6010C
Copper		41.0		2.87	mg/Kg	6010C
Iron		13000		57.4	mg/Kg	6010C
Lead		125		1.44	mg/Kg	6010C
Magnesium		10600		287	mg/Kg	6010C
Manganese		268		4.31	mg/Kg	6010C
Nickel		13.7		2.87	mg/Kg	6010C
Potassium		1150		287	mg/Kg	6010C
Vanadium		27.7		14.4	mg/Kg	6010C
Zinc		70.7		14.4	mg/Kg	6010C
Mercury		0.130	J	0.147	mg/Kg	7471B
Percent Solids		66.7		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-118160-3	**END 475**					
Acetone		0.0265	J	0.0435	mg/Kg	8260C
Benzene		0.00258		0.00174	mg/Kg	8260C
m,p-Xylene		0.000940	J	0.00348	mg/Kg	8260C
Toluene		0.00101	J	0.00174	mg/Kg	8260C
Aluminum		11500		23.7	mg/Kg	6010C
Arsenic		12.6		2.37	mg/Kg	6010C
Barium		79.2		2.37	mg/Kg	6010C
Beryllium		0.568	J	1.18	mg/Kg	6010C
Cadmium		1.02	J	1.18	mg/Kg	6010C
Calcium		2770		237	mg/Kg	6010C
Chromium		14.0		1.18	mg/Kg	6010C
Cobalt		11.4		2.37	mg/Kg	6010C
Copper		26.8		2.37	mg/Kg	6010C
Iron		29700		47.3	mg/Kg	6010C
Lead		41.2		1.18	mg/Kg	6010C
Magnesium		4810		237	mg/Kg	6010C
Manganese		651		3.55	mg/Kg	6010C
Nickel		26.2		2.37	mg/Kg	6010C
Potassium		1350		237	mg/Kg	6010C
Vanadium		16.7		11.8	mg/Kg	6010C
Zinc		65.0		11.8	mg/Kg	6010C
Percent Solids		84.7		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-118160-4	**END 476**					
Acetone		0.646		0.0740	mg/Kg	8260C
Benzene		0.0297		0.00296	mg/Kg	8260C
2-Butanone (MEK)		0.125		0.0740	mg/Kg	8260C
1,2-Dichloroethane		0.00152	J	0.00296	mg/Kg	8260C
Isopropylbenzene		0.0586	J	0.204	mg/Kg	8260C
m,p-Xylene		1.58		0.307	mg/Kg	8260C
N-Propylbenzene		0.0800	J	0.204	mg/Kg	8260C
o-Xylene		0.275		0.204	mg/Kg	8260C
Toluene		0.259		0.204	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.878		0.204	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.290		0.204	mg/Kg	8260C
Xylenes (total)		1.86		0.307	mg/Kg	8260C
Chrysene		0.568	J	0.859	mg/Kg	8270D
Aluminum		13500		26.4	mg/Kg	6010C
Antimony		2.22	J	13.2	mg/Kg	6010C
Arsenic		19.4		2.64	mg/Kg	6010C
Barium		131		2.64	mg/Kg	6010C
Beryllium		0.976	J	1.32	mg/Kg	6010C
Cadmium		2.35		1.32	mg/Kg	6010C
Calcium		3490		264	mg/Kg	6010C
Chromium		24.7		1.32	mg/Kg	6010C
Cobalt		7.99		2.64	mg/Kg	6010C
Copper		41.3		2.64	mg/Kg	6010C
Iron		25500		52.8	mg/Kg	6010C
Lead		121		1.32	mg/Kg	6010C
Magnesium		6140		264	mg/Kg	6010C
Manganese		156		3.96	mg/Kg	6010C
Nickel		29.6		2.64	mg/Kg	6010C
Potassium		1090		264	mg/Kg	6010C
Vanadium		30.1		13.2	mg/Kg	6010C
Zinc		106		13.2	mg/Kg	6010C
Mercury		0.0515	J	0.127	mg/Kg	7471B
Percent Solids		76.1		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-118160-5	**END 472**					
Acetone		0.104		0.0643	mg/Kg	8260C
Benzene		0.00122	J	0.00257	mg/Kg	8260C
2-Butanone (MEK)		0.0115	J	0.0643	mg/Kg	8260C
m,p-Xylene		0.00167	J	0.00515	mg/Kg	8260C
Toluene		0.00246	J	0.00257	mg/Kg	8260C
Xylenes (total)		0.00167	J	0.00772	mg/Kg	8260C
Aluminum		11900		25.2	mg/Kg	6010C
Arsenic		8.65		2.52	mg/Kg	6010C
Barium		60.5		2.52	mg/Kg	6010C
Beryllium		0.479	J	1.26	mg/Kg	6010C
Cadmium		0.807	J	1.26	mg/Kg	6010C
Calcium		1260		252	mg/Kg	6010C
Chromium		14.2		1.26	mg/Kg	6010C
Cobalt		7.16		2.52	mg/Kg	6010C
Copper		16.9		2.52	mg/Kg	6010C
Iron		21300		50.4	mg/Kg	6010C
Lead		33.0		1.26	mg/Kg	6010C
Magnesium		3100		252	mg/Kg	6010C
Manganese		230		3.78	mg/Kg	6010C
Nickel		18.0		2.52	mg/Kg	6010C
Potassium		848		252	mg/Kg	6010C
Vanadium		17.7		12.6	mg/Kg	6010C
Zinc		63.8		12.6	mg/Kg	6010C
Percent Solids		77.2		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-118160-6	**END 473**					
Acetone		0.108		0.0378	mg/Kg	8260C
Benzene		0.0155		0.00151	mg/Kg	8260C
2-Butanone (MEK)		0.0182	J	0.0378	mg/Kg	8260C
Carbon disulfide		0.00372	J	0.00378	mg/Kg	8260C
Ethylbenzene		0.0548	J	0.132	mg/Kg	8260C
Isopropylbenzene		0.0491	J	0.132	mg/Kg	8260C
m,p-Xylene		0.581		0.198	mg/Kg	8260C
Naphthalene		0.121	J B	0.330	mg/Kg	8260C
N-Propylbenzene		0.0606	J	0.132	mg/Kg	8260C
o-Xylene		0.134		0.132	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.725		0.132	mg/Kg	8260C
1,3,5-Trimethylbenzene		0.364		0.132	mg/Kg	8260C
Xylenes (total)		0.715		0.198	mg/Kg	8260C
Aluminum		14400		23.4	mg/Kg	6010C
Antimony		1.40	J	11.7	mg/Kg	6010C
Arsenic		10.3		2.34	mg/Kg	6010C
Barium		60.5		2.34	mg/Kg	6010C
Beryllium		0.585	J	1.17	mg/Kg	6010C
Cadmium		0.842	J	1.17	mg/Kg	6010C
Calcium		1000		234	mg/Kg	6010C
Chromium		15.9		1.17	mg/Kg	6010C
Cobalt		7.79		2.34	mg/Kg	6010C
Copper		26.5		2.34	mg/Kg	6010C
Iron		23800		46.8	mg/Kg	6010C
Lead		28.3		1.17	mg/Kg	6010C
Magnesium		3210		234	mg/Kg	6010C
Manganese		254		3.51	mg/Kg	6010C
Nickel		18.3		2.34	mg/Kg	6010C
Potassium		994		234	mg/Kg	6010C
Vanadium		21.1		11.7	mg/Kg	6010C
Zinc		65.0		11.7	mg/Kg	6010C
Percent Solids		81.7		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-118160-7	**END 474**					
Acetone		0.217		0.0547	mg/Kg	8260C
Benzene		0.0361		0.00219	mg/Kg	8260C
2-Butanone (MEK)		0.0503	J	0.0547	mg/Kg	8260C
Carbon disulfide		0.00935		0.00547	mg/Kg	8260C
m,p-Xylene		0.164	J	0.209	mg/Kg	8260C
Toluene		0.388		0.139	mg/Kg	8260C
1,2,4-Trimethylbenzene		0.126	J	0.139	mg/Kg	8260C
Xylenes (total)		0.164	J	0.209	mg/Kg	8260C
Benzo(g,h,i)perylene		0.0630	J	0.0776	mg/Kg	8270D
Chrysene		0.0661	J	0.0776	mg/Kg	8270D
Fluoranthene		0.0624	J	0.0776	mg/Kg	8270D
Phenanthrene		0.0581	J	0.0776	mg/Kg	8270D
Pyrene		0.0938		0.0776	mg/Kg	8270D
Aluminum		2530		23.5	mg/Kg	6010C
Antimony		3.17	J	11.7	mg/Kg	6010C
Arsenic		19.6		2.35	mg/Kg	6010C
Barium		50.9		2.35	mg/Kg	6010C
Cadmium		1.03	J	1.17	mg/Kg	6010C
Calcium		474		235	mg/Kg	6010C
Chromium		4.57		1.17	mg/Kg	6010C
Cobalt		3.14		2.35	mg/Kg	6010C
Copper		30.2		2.35	mg/Kg	6010C
Iron		26800		46.9	mg/Kg	6010C
Lead		33.2		1.17	mg/Kg	6010C
Magnesium		552		235	mg/Kg	6010C
Manganese		127		3.52	mg/Kg	6010C
Nickel		9.52		2.35	mg/Kg	6010C
Potassium		342		235	mg/Kg	6010C
Vanadium		4.01	J	11.7	mg/Kg	6010C
Zinc		14.4		11.7	mg/Kg	6010C
Mercury		0.0366	J	0.118	mg/Kg	7471B
Percent Solids		83.9		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-118160-8	**END 469**					
Acetone		0.0909		0.0461	mg/Kg	8260C
Benzene		0.00131	J	0.00184	mg/Kg	8260C
2-Butanone (MEK)		0.0138	J	0.0461	mg/Kg	8260C
Carbon disulfide		0.00380	J	0.00461	mg/Kg	8260C
Ethylbenzene		0.000847	J	0.00184	mg/Kg	8260C
Isopropylbenzene		0.00354		0.00184	mg/Kg	8260C
m,p-Xylene		0.00743		0.00368	mg/Kg	8260C
o-Xylene		0.00319		0.00184	mg/Kg	8260C
Toluene		0.00258		0.00184	mg/Kg	8260C
Xylenes (total)		0.0106		0.00553	mg/Kg	8260C
Aluminum		10700		23.4	mg/Kg	6010C
Antimony		1.17	J	11.7	mg/Kg	6010C
Arsenic		12.7		2.34	mg/Kg	6010C
Barium		57.8		2.34	mg/Kg	6010C
Beryllium		0.539	J	1.17	mg/Kg	6010C
Cadmium		1.03	J	1.17	mg/Kg	6010C
Calcium		1340		234	mg/Kg	6010C
Chromium		13.1		1.17	mg/Kg	6010C
Cobalt		9.72		2.34	mg/Kg	6010C
Copper		235		2.34	mg/Kg	6010C
Iron		23800		46.9	mg/Kg	6010C
Lead		44.3		1.17	mg/Kg	6010C
Magnesium		3210		234	mg/Kg	6010C
Manganese		367		3.51	mg/Kg	6010C
Nickel		19.3		2.34	mg/Kg	6010C
Potassium		987		234	mg/Kg	6010C
Vanadium		15.1		11.7	mg/Kg	6010C
Zinc		77.4		11.7	mg/Kg	6010C
Percent Solids		81.9		0.1	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-118160-9	**END 470**					
Benzene		0.0113		0.00201	mg/Kg	8260C
2-Butanone (MEK)		0.0203	J	0.0503	mg/Kg	8260C
Carbon disulfide		0.00441	J	0.00503	mg/Kg	8260C
Aluminum		11400		24.0	mg/Kg	6010C
Arsenic		10.1		2.40	mg/Kg	6010C
Barium		56.3		2.40	mg/Kg	6010C
Beryllium		0.407	J	1.20	mg/Kg	6010C
Cadmium		1.01	J	1.20	mg/Kg	6010C
Calcium		2440		240	mg/Kg	6010C
Chromium		12.0		1.20	mg/Kg	6010C
Cobalt		6.56		2.40	mg/Kg	6010C
Copper		18.9		2.40	mg/Kg	6010C
Iron		20100		47.9	mg/Kg	6010C
Lead		36.1		1.20	mg/Kg	6010C
Magnesium		3030		240	mg/Kg	6010C
Manganese		257		3.59	mg/Kg	6010C
Nickel		13.8		2.40	mg/Kg	6010C
Potassium		695		240	mg/Kg	6010C
Vanadium		16.6		12.0	mg/Kg	6010C
Zinc		135		12.0	mg/Kg	6010C
Percent Solids		79.7		0.1	%	Moisture
490-118160-10	**END 471**					
Benzene		0.00260		0.00199	mg/Kg	8260C
2-Butanone (MEK)		0.0149	J	0.0498	mg/Kg	8260C
Bis(2-ethylhexyl)phthalate		0.370	J	0.414	mg/Kg	8270D
Aluminum		10300		25.2	mg/Kg	6010C
Arsenic		15.0		2.52	mg/Kg	6010C
Barium		84.2		2.52	mg/Kg	6010C
Beryllium		0.553	J	1.26	mg/Kg	6010C
Cadmium		0.931	J	1.26	mg/Kg	6010C
Calcium		3400		252	mg/Kg	6010C
Chromium		12.2		1.26	mg/Kg	6010C
Cobalt		8.68		2.52	mg/Kg	6010C
Copper		32.8		2.52	mg/Kg	6010C
Iron		24200		50.3	mg/Kg	6010C
Lead		49.2		1.26	mg/Kg	6010C
Magnesium		3110		252	mg/Kg	6010C
Manganese		658		3.77	mg/Kg	6010C
Nickel		18.0		2.52	mg/Kg	6010C
Potassium		1160		252	mg/Kg	6010C
Vanadium		14.4		12.6	mg/Kg	6010C
Zinc		61.4		12.6	mg/Kg	6010C
Percent Solids		79.0		0.1	%	Moisture

METHOD SUMMARY

Client: Roux Associates, Inc. Job Number: 490-118160-1

Description	Lab Location	Method	Preparation Method
Matrix: Soil			
Volatile Organic Compounds by GC/MS	TAL NSH	SW846 8260C	
Closed System Purge and Trap	TAL NSH		SW846 5035
Volatile Organic Compounds by GC/MS	TAL NSH	SW846 8260C	
Closed System Purge & Trap/Field Methanol	TAL NSH		SW846 5035A
Volatile Organic Compounds by GC/MS	TAL NSH	SW846 8260C	
Closed System Purge and Trap	TAL NSH		SW846 5035A
Semivolatile Organic Compounds (GC/MS)	TAL NSH	SW846 8270D	
Ultrasonic Extraction	TAL NSH		SW846 3550C
Metals (ICP)	TAL NSH	SW846 6010C	
Preparation, Metals, Microwave Assisted	TAL NSH		SW846 3051A
Mercury (CVAA)	TAL NSH	SW846 7471B	
Preparation, Mercury	TAL NSH		SW846 7471B
Percent Moisture	TAL NSH	EPA Moisture	

Lab References:

TAL NSH = TestAmerica Nashville

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Method	Analyst	Analyst ID
SW846 8260C	Anthony, Ian M	IMA
SW846 8260C	Larsen, Eric	EML
SW846 8270D	Chaiyasit, Thitima 1	T1C
SW846 8270D	Squires, William D	WDS
SW846 6010C	Fly, Robyn D	RDF
SW846 6010C	Keller, Kris	KKK
SW846 7471B	Smith, Lauren C	LCS
EPA Moisture	Ali, Blnd A	BAA

SAMPLE SUMMARY

Client: Roux Associates, Inc. Job Number: 490-118160-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
490-118160-1	END 478	Soil	12/06/2016 0815	12/12/2016 0850
490-118160-2	END 477	Soil	12/05/2016 1230	12/12/2016 0850
490-118160-3	END 475	Soil	12/05/2016 0945	12/12/2016 0850
490-118160-4	END 476	Soil	12/05/2016 1230	12/12/2016 0850
490-118160-5	END 472	Soil	12/05/2016 0915	12/12/2016 0850
490-118160-6	END 473	Soil	12/05/2016 0930	12/12/2016 0850
490-118160-7	END 474	Soil	12/05/2016 0930	12/12/2016 0850
490-118160-8	END 469	Soil	12/05/2016 0900	12/12/2016 0850
490-118160-9	END 470	Soil	12/05/2016 0900	12/12/2016 0850
490-118160-10	END 471	Soil	12/05/2016 0915	12/12/2016 0850
490-118160-11TB	Trip Blank	Soil	10/07/2016 0101	12/12/2016 0850

SAMPLE RESULTS

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 478

Lab Sample ID: 490-118160-1
Client Matrix: Soil

% Moisture: 21.1

Date Sampled: 12/06/2016 0815
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: 5035A
Dilution: 1.0
Analysis Date: 12/15/2016 2027
Prep Date: 12/06/2016 0815

Analysis Batch: 490-394558
Prep Batch: 490-394131

Instrument ID: HP67
Lab File ID: 121516-21.D
Initial Weight/Volume: 6.656 g
Final Weight/Volume: 5.0 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.00799	U	0.00799	0.0476
Benzene		0.0139		0.000638	0.00190
Bromochloromethane		0.000523	U	0.000523	0.00190
Bromodichloromethane		0.000523	U	0.000523	0.00190
Bromoform		0.000523	U	0.000523	0.00190
Bromomethane		0.00114	U	0.00114	0.00190
2-Butanone (MEK)		0.00984	J	0.00485	0.0476
Carbon disulfide		0.00387	J	0.00343	0.00476
Carbon tetrachloride		0.000638	U	0.000638	0.00190
Chlorobenzene		0.000638	U	0.000638	0.00190
Chloroethane		0.00181	U	0.00181	0.00476
Chloroform		0.000638	U	0.000638	0.00190
Chloromethane		0.000638	U	0.000638	0.00190
cis-1,2-Dichloroethene		0.000638	U	0.000638	0.00190
cis-1,3-Dichloropropene		0.000638	U	0.000638	0.00190
Dibromochloromethane		0.000324	U	0.000324	0.00190
1,2-Dibromoethane		0.000952	U	0.000952	0.00190
Dichlorodifluoromethane		0.000952	U	0.000952	0.00190
1,1-Dichloroethane		0.000638	U	0.000638	0.00190
1,2-Dichloroethane		0.000638	U	0.000638	0.00190
1,1-Dichloroethene		0.000542	U	0.000542	0.00190
1,2-Dichloropropane		0.000894	U	0.000894	0.00190
1,3-Dichloropropane		0.000894	U	0.000894	0.00190
2,2-Dichloropropane		0.000638	U	0.000638	0.00190
1,1-Dichloropropene		0.000485	U	0.000485	0.00190
Ethylbenzene		0.00303		0.000638	0.00190
2-Hexanone		0.0159	U	0.0159	0.0476
Iodomethane		0.00638	U	0.00638	0.0190
Isopropylbenzene		0.0200		0.000390	0.00190
Methylene bromide		0.000533	U	0.000533	0.00190
Methylene Chloride		0.000818	U	0.000818	0.00952
4-Methyl-2-pentanone (MIBK)		0.00181	U	0.00181	0.0476
Methyl tert butyl ether		0.000914	U	0.000914	0.00190
m,p-Xylene		0.0159		0.000533	0.00381
o-Xylene		0.0249		0.000638	0.00190
Styrene		0.00105	U	0.00105	0.00190
1,1,1,2-Tetrachloroethane		0.000638	U	0.000638	0.00190
Tetrachloroethene		0.000695	U	0.000695	0.00190
Toluene		0.0176		0.000704	0.00190
trans-1,2-Dichloroethene		0.000638	U	0.000638	0.00190
trans-1,3-Dichloropropene		0.000638	U	0.000638	0.00190
1,1,1-Trichloroethane		0.000875	U	0.000875	0.00190
1,1,2-Trichloroethane		0.00133	U	0.00133	0.00476
Trichloroethene		0.000914	U	0.000914	0.00190
Trichlorofluoromethane		0.000952	U	0.000952	0.00190
Vinyl acetate		0.00419	U *	0.00419	0.0190

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 478

Lab Sample ID: 490-118160-1
Client Matrix: Soil

% Moisture: 21.1

Date Sampled: 12/06/2016 0815
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394558	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394131	Lab File ID:	121516-21.D
Dilution:	1.0			Initial Weight/Volume:	6.656 g
Analysis Date:	12/15/2016 2027			Final Weight/Volume:	5.0 mL
Prep Date:	12/06/2016 0815				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl chloride		0.00105	U	0.00105	0.00190
Xylenes (total)		0.0408		0.00117	0.00571

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	150	*	70 - 130
Dibromofluoromethane (Surr)	104		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
Toluene-d8 (Surr)	233	*	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 478

Lab Sample ID: 490-118160-1
Client Matrix: Soil

% Moisture: 21.1

Date Sampled: 12/06/2016 0815
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394558	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394131	Lab File ID:	121516-21.D
Dilution:	1.0			Initial Weight/Volume:	6.656 g
Analysis Date:	12/15/2016 2027			Final Weight/Volume:	5.0 mL
Prep Date:	12/06/2016 0815				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
107-83-5	Pentane, 2-methyl-	2.92	0.967	J N
	Unknown	3.67	1.56	J
110-82-7	Cyclohexane	4.13	2.03	E
108-87-2	Methylcyclohexane	4.95	2.62	E
16883-48-0	Cyclopentane, 1,2,4-trimethyl-, (1.alpha.,2.beta.,4.alpha.)-	5.11	0.522	J N
1528-22-9	Cyclobutane, (1-methylethylidene)-	5.33	0.393	J N
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.97	0.433	J N
2207-03-6	Cyclohexane, 1,3-dimethyl-, trans-	6.06	0.477	J N
1678-91-7	Cyclohexane, ethyl-	6.45	0.898	J N
	Unknown	7.71	1.09	J

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 478

Lab Sample ID: 490-118160-1
Client Matrix: Soil

% Moisture: 21.1

Date Sampled: 12/06/2016 0815
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394762	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394118	Lab File ID:	121516-34.D
Dilution:	1.0			Initial Weight/Volume:	7.443 g
Analysis Date:	12/16/2016 0305			Final Weight/Volume:	5.0 mL
Prep Date:	12/06/2016 0815				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0402	U	0.0402	0.112
1,2-Dibromo-3-chloropropane		0.0391	U	0.0391	0.279
1,2-Dichlorobenzene		0.0190	U	0.0190	0.112
1,3-Dichlorobenzene		0.0380	U	0.0380	0.112
1,4-Dichlorobenzene		0.0525	U	0.0525	0.112
Hexachlorobutadiene		0.0615	U	0.0615	0.279
Naphthalene		0.212	J B	0.0950	0.279
n-Butylbenzene		0.118		0.0559	0.112
N-Propylbenzene		0.0985	J	0.0380	0.112
o-Chlorotoluene		0.0514	U	0.0514	0.112
p-Chlorotoluene		0.0469	U	0.0469	0.112
p-Isopropyltoluene		0.0422	J	0.0380	0.112
sec-Butylbenzene		0.101	J	0.0380	0.112
tert-Butylbenzene		0.0559	U	0.0559	0.112
1,1,2,2-Tetrachloroethane		0.0559	U	0.0559	0.112
1,2,3-Trichlorobenzene		0.0212	U	0.0212	0.112
1,2,4-Trichlorobenzene		0.0380	U	0.0380	0.112
1,2,3-Trichloropropane		0.0313	U	0.0313	0.112
1,2,4-Trimethylbenzene		0.243		0.0559	0.112
1,3,5-Trimethylbenzene		0.0888	J	0.0425	0.112

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
Dibromofluoromethane (Surr)	92		70 - 130
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 477

Lab Sample ID: 490-118160-2
Client Matrix: Soil

% Moisture: 33.3

Date Sampled: 12/05/2016 1230
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394558	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394131	Lab File ID:	121516-11.D
Dilution:	1.0			Initial Weight/Volume:	4.116 g
Analysis Date:	12/15/2016 1518			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1230				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.482		0.0153	0.0910
Benzene		0.0361		0.00122	0.00364
Bromochloromethane		0.00100	U	0.00100	0.00364
Bromodichloromethane		0.00100	U	0.00100	0.00364
Bromomethane		0.00218	U	0.00218	0.00364
2-Butanone (MEK)		0.0698	J	0.00928	0.0910
Carbon disulfide		0.00655	U	0.00655	0.00910
Carbon tetrachloride		0.00122	U	0.00122	0.00364
Chloroethane		0.00346	U	0.00346	0.00910
Chloroform		0.00122	U	0.00122	0.00364
Chloromethane		0.00122	U	0.00122	0.00364
cis-1,2-Dichloroethene		0.00122	U	0.00122	0.00364
Dichlorodifluoromethane		0.00182	U	0.00182	0.00364
1,1-Dichloroethane		0.00122	U	0.00122	0.00364
1,2-Dichloroethane		0.00122	U	0.00122	0.00364
1,1-Dichloroethene		0.00104	U	0.00104	0.00364
1,2-Dichloropropane		0.00171	U	0.00171	0.00364
2,2-Dichloropropane		0.00122	U	0.00122	0.00364
1,1-Dichloropropene		0.000928	U	0.000928	0.00364
Iodomethane		0.0122	U	0.0122	0.0364
Methylene bromide		0.00102	U	0.00102	0.00364
Methylene Chloride		0.00157	U	0.00157	0.0182
Methyl tert butyl ether		0.00175	U	0.00175	0.00364
trans-1,2-Dichloroethene		0.00122	U	0.00122	0.00364
1,1,1-Trichloroethane		0.00167	U	0.00167	0.00364
Trichloroethene		0.00175	U	0.00175	0.00364
Trichlorofluoromethane		0.00182	U	0.00182	0.00364
Vinyl acetate		0.00801	U *	0.00801	0.0364
Vinyl chloride		0.00200	U	0.00200	0.00364

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	133	*	70 - 130
Dibromofluoromethane (Surr)	120		70 - 130
1,2-Dichloroethane-d4 (Surr)	125		70 - 130
Toluene-d8 (Surr)	141	*	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 477

Lab Sample ID: 490-118160-2
Client Matrix: Soil % Moisture: 33.3

Date Sampled: 12/05/2016 1230
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394558	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394131	Lab File ID:	121516-11.D
Dilution:	1.0			Initial Weight/Volume:	4.116 g
Analysis Date:	12/15/2016 1518			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1230				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
110-82-7	Cyclohexane	4.13	0.244	
108-87-2	Methylcyclohexane	4.94	0.463	
1678-91-7	Cyclohexane, ethyl-	6.45	0.398	J N
	Unknown	6.67	0.317	J
	Unknown	7.70	0.210	J
112-40-3	Dodecane	10.73	0.212	J N
5617-41-4	Heptylcyclohexane	11.43	0.185	J N
629-50-5	Tridecane	11.83	0.265	J N
638-36-8	Hexadecane, 2,6,10,14-tetramethyl-	12.55	0.241	J N
629-59-4	Tetradecane	12.72	0.192	J N

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 477

Lab Sample ID: 490-118160-2
Client Matrix: Soil

% Moisture: 33.3

Date Sampled: 12/05/2016 1230
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394762	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394118	Lab File ID:	121516-35.D
Dilution:	1.0			Initial Weight/Volume:	5.12 g
Analysis Date:	12/16/2016 0335			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1230				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0706	U	0.0706	0.196
Bromoform		0.0549	U	0.0549	0.196
Chlorobenzene		0.0667	U	0.0667	0.196
cis-1,3-Dichloropropene		0.0667	U	0.0667	0.196
Dibromochloromethane		0.0334	U	0.0334	0.196
1,2-Dibromo-3-chloropropane		0.0687	U	0.0687	0.491
1,2-Dibromoethane		0.0981	U	0.0981	0.196
1,2-Dichlorobenzene		0.0334	U	0.0334	0.196
1,3-Dichlorobenzene		0.0667	U	0.0667	0.196
1,4-Dichlorobenzene		0.0922	U	0.0922	0.196
1,3-Dichloropropane		0.0922	U	0.0922	0.196
Ethylbenzene		0.0667	U	0.0667	0.196
Hexachlorobutadiene		0.108	U	0.108	0.491
2-Hexanone		1.65	U	1.65	4.91
Isopropylbenzene		0.0412	U	0.0412	0.196
4-Methyl-2-pentanone (MIBK)		1.67	U	1.67	4.91
m,p-Xylene		0.514		0.0549	0.294
Naphthalene		0.175	J B	0.167	0.491
n-Butylbenzene		0.0981	U	0.0981	0.196
N-Propylbenzene		0.0667	U	0.0667	0.196
o-Chlorotoluene		0.0903	U	0.0903	0.196
o-Xylene		0.106	J	0.0667	0.196
p-Chlorotoluene		0.0824	U	0.0824	0.196
p-Isopropyltoluene		0.0667	U	0.0667	0.196
sec-Butylbenzene		0.0667	U	0.0667	0.196
Styrene		0.108	U	0.108	0.196
tert-Butylbenzene		0.0981	U	0.0981	0.196
1,1,1,2-Tetrachloroethane		0.0667	U	0.0667	0.196
1,1,2,2-Tetrachloroethane		0.0981	U	0.0981	0.196
Tetrachloroethene		0.0667	U	0.0667	0.196
Toluene		0.0828	J	0.0726	0.196
trans-1,3-Dichloropropene		0.0667	U	0.0667	0.196
1,2,3-Trichlorobenzene		0.0373	U	0.0373	0.196
1,2,4-Trichlorobenzene		0.0667	U	0.0667	0.196
1,1,2-Trichloroethane		0.137	U	0.137	0.491
1,2,3-Trichloropropane		0.0549	U	0.0549	0.196
1,2,4-Trimethylbenzene		0.245		0.0981	0.196
1,3,5-Trimethylbenzene		0.173	J	0.0746	0.196
Xylenes (total)		0.620		0.122	0.294

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
Dibromofluoromethane (Surr)	93		70 - 130
1,2-Dichloroethane-d4 (Surr)	92		70 - 130
Toluene-d8 (Surr)	92		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 475

Lab Sample ID: 490-118160-3
Client Matrix: Soil

% Moisture: 15.3

Date Sampled: 12/05/2016 0945
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394558	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394131	Lab File ID:	121516-20.D
Dilution:	1.0			Initial Weight/Volume:	6.783 g
Analysis Date:	12/15/2016 1956			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0945				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0265	J	0.00731	0.0435
Benzene		0.00258		0.000583	0.00174
Bromochloromethane		0.000479	U	0.000479	0.00174
Bromodichloromethane		0.000479	U	0.000479	0.00174
Bromoform		0.000479	U	0.000479	0.00174
Bromomethane		0.00104	U	0.00104	0.00174
2-Butanone (MEK)		0.00444	U	0.00444	0.0435
Carbon disulfide		0.00313	U	0.00313	0.00435
Carbon tetrachloride		0.000583	U	0.000583	0.00174
Chlorobenzene		0.000583	U	0.000583	0.00174
Chloroethane		0.00165	U	0.00165	0.00435
Chloroform		0.000583	U	0.000583	0.00174
Chloromethane		0.000583	U	0.000583	0.00174
cis-1,2-Dichloroethene		0.000583	U	0.000583	0.00174
cis-1,3-Dichloropropene		0.000583	U	0.000583	0.00174
Dibromochloromethane		0.000296	U	0.000296	0.00174
1,2-Dibromoethane		0.000870	U	0.000870	0.00174
Dichlorodifluoromethane		0.000870	U	0.000870	0.00174
1,1-Dichloroethane		0.000583	U	0.000583	0.00174
1,2-Dichloroethane		0.000583	U	0.000583	0.00174
1,1-Dichloroethene		0.000496	U	0.000496	0.00174
1,2-Dichloropropane		0.000818	U	0.000818	0.00174
1,3-Dichloropropane		0.000818	U	0.000818	0.00174
2,2-Dichloropropane		0.000583	U	0.000583	0.00174
1,1-Dichloropropene		0.000444	U	0.000444	0.00174
Ethylbenzene		0.000583	U	0.000583	0.00174
2-Hexanone		0.0145	U	0.0145	0.0435
Iodomethane		0.00583	U	0.00583	0.0174
Isopropylbenzene		0.000357	U	0.000357	0.00174
Methylene bromide		0.000487	U	0.000487	0.00174
Methylene Chloride		0.000748	U	0.000748	0.00870
4-Methyl-2-pentanone (MIBK)		0.00165	U	0.00165	0.0435
Methyl tert butyl ether		0.000835	U	0.000835	0.00174
m,p-Xylene		0.000940	J	0.000487	0.00348
o-Xylene		0.000583	U	0.000583	0.00174
Styrene		0.000957	U	0.000957	0.00174
1,1,1,2-Tetrachloroethane		0.000583	U	0.000583	0.00174
Tetrachloroethene		0.000635	U	0.000635	0.00174
Toluene		0.00101	J	0.000644	0.00174
trans-1,2-Dichloroethene		0.000583	U	0.000583	0.00174
trans-1,3-Dichloropropene		0.000583	U	0.000583	0.00174
1,1,1-Trichloroethane		0.000800	U	0.000800	0.00174
1,1,2-Trichloroethane		0.00122	U	0.00122	0.00435
Trichloroethene		0.000835	U	0.000835	0.00174
Trichlorofluoromethane		0.000870	U	0.000870	0.00174
Vinyl acetate		0.00383	U *	0.00383	0.0174

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 475

Lab Sample ID: 490-118160-3
Client Matrix: Soil

% Moisture: 15.3

Date Sampled: 12/05/2016 0945
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394558	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394131	Lab File ID:	121516-20.D
Dilution:	1.0			Initial Weight/Volume:	6.783 g
Analysis Date:	12/15/2016 1956			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0945				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl chloride		0.000957	U	0.000957	0.00174
Xylenes (total)		0.00107	U	0.00107	0.00522

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	108	*	70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
Toluene-d8 (Surr)	109		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 475

Lab Sample ID: 490-118160-3
Client Matrix: Soil

% Moisture: 15.3

Date Sampled: 12/05/2016 0945
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394558	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394131	Lab File ID:	121516-20.D
Dilution:	1.0			Initial Weight/Volume:	6.783 g
Analysis Date:	12/15/2016 1956			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0945				

Tentatively Identified Compounds **Number TIC's Found: 8**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
110-82-7	Cyclohexane	4.13	0.00189	J
108-87-2	Methylcyclohexane	4.94	0.00391	J
	Unknown	6.36	0.00594	J
91-57-6	2-Methylnaphthalene	12.59	0.00268	J * B
	Unknown	12.87	0.0110	J
	Unknown	13.08	0.0153	J
	Unknown	13.28	0.0355	J
	Unknown	13.63	0.00680	J

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 475

Lab Sample ID: 490-118160-3
Client Matrix: Soil

% Moisture: 15.3

Date Sampled: 12/05/2016 0945
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394762	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394118	Lab File ID:	121516-36.D
Dilution:	1.0			Initial Weight/Volume:	7.658 g
Analysis Date:	12/16/2016 0406			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0945				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0342	U	0.0342	0.0951
1,2-Dibromo-3-chloropropane		0.0333	U	0.0333	0.238
1,2-Dichlorobenzene		0.0162	U	0.0162	0.0951
1,3-Dichlorobenzene		0.0323	U	0.0323	0.0951
1,4-Dichlorobenzene		0.0447	U	0.0447	0.0951
Hexachlorobutadiene		0.0523	U	0.0523	0.238
Naphthalene		0.0808	U	0.0808	0.238
n-Butylbenzene		0.0476	U	0.0476	0.0951
N-Propylbenzene		0.0323	U	0.0323	0.0951
o-Chlorotoluene		0.0437	U	0.0437	0.0951
p-Chlorotoluene		0.0399	U	0.0399	0.0951
p-Isopropyltoluene		0.0323	U	0.0323	0.0951
sec-Butylbenzene		0.0323	U	0.0323	0.0951
tert-Butylbenzene		0.0476	U	0.0476	0.0951
1,1,2,2-Tetrachloroethane		0.0476	U	0.0476	0.0951
1,2,3-Trichlorobenzene		0.0181	U	0.0181	0.0951
1,2,4-Trichlorobenzene		0.0323	U	0.0323	0.0951
1,2,3-Trichloropropane		0.0266	U	0.0266	0.0951
1,2,4-Trimethylbenzene		0.0476	U	0.0476	0.0951
1,3,5-Trimethylbenzene		0.0361	U	0.0361	0.0951

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	90		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 476

Lab Sample ID: 490-118160-4
Client Matrix: Soil

% Moisture: 23.9

Date Sampled: 12/05/2016 1230
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394558	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394131	Lab File ID:	121516-19.D
Dilution:	1.0			Initial Weight/Volume:	4.437 g
Analysis Date:	12/15/2016 1925			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1230				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.646		0.0124	0.0740
Benzene		0.0297		0.000992	0.00296
Bromochloromethane		0.000814	U	0.000814	0.00296
Bromodichloromethane		0.000814	U	0.000814	0.00296
Bromomethane		0.00178	U	0.00178	0.00296
2-Butanone (MEK)		0.125		0.00755	0.0740
Carbon disulfide		0.00533	U	0.00533	0.00740
Carbon tetrachloride		0.000992	U	0.000992	0.00296
Chloroethane		0.00281	U	0.00281	0.00740
Chloroform		0.000992	U	0.000992	0.00296
Chloromethane		0.000992	U	0.000992	0.00296
cis-1,2-Dichloroethene		0.000992	U	0.000992	0.00296
Dichlorodifluoromethane		0.00148	U	0.00148	0.00296
1,1-Dichloroethane		0.000992	U	0.000992	0.00296
1,2-Dichloroethane		0.00152	J	0.000992	0.00296
1,1-Dichloroethene		0.000844	U	0.000844	0.00296
1,2-Dichloropropane		0.00139	U	0.00139	0.00296
2,2-Dichloropropane		0.000992	U	0.000992	0.00296
1,1-Dichloropropene		0.000755	U	0.000755	0.00296
Iodomethane		0.00992	U	0.00992	0.0296
Methylene bromide		0.000829	U	0.000829	0.00296
Methylene Chloride		0.00127	U	0.00127	0.0148
Methyl tert butyl ether		0.00142	U	0.00142	0.00296
trans-1,2-Dichloroethene		0.000992	U	0.000992	0.00296
1,1,1-Trichloroethane		0.00136	U	0.00136	0.00296
Trichloroethene		0.00142	U	0.00142	0.00296
Trichlorofluoromethane		0.00148	U	0.00148	0.00296
Vinyl acetate		0.00651	U *	0.00651	0.0296
Vinyl chloride		0.00163	U	0.00163	0.00296

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	163	*	70 - 130
Dibromofluoromethane (Surr)	122		70 - 130
1,2-Dichloroethane-d4 (Surr)	122		70 - 130
Toluene-d8 (Surr)	160	*	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 476

Lab Sample ID: 490-118160-4
Client Matrix: Soil % Moisture: 23.9

Date Sampled: 12/05/2016 1230
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394558	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394131	Lab File ID:	121516-19.D
Dilution:	1.0			Initial Weight/Volume:	4.437 g
Analysis Date:	12/15/2016 1925			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1230				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
110-82-7	Cyclohexane	4.13	0.390	
108-87-2	Methylcyclohexane	4.94	0.797	E
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.97	0.319	J N
624-29-3	Cyclohexane, 1,4-dimethyl-, cis-	6.06	0.241	J N
3073-66-3	Cyclohexane, 1,1,3-trimethyl-	6.49	0.659	J N
1795-26-2	Cyclohexane, 1,3,5-trimethyl-, (1.alpha.,3.alpha.,5.beta.)-	6.68	0.260	J N
	Unknown	7.70	0.280	J
	Unknown	8.11	0.268	J
	Unknown	12.72	0.288	J
	Unknown	13.28	0.490	J

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 476

Lab Sample ID: 490-118160-4
Client Matrix: Soil

% Moisture: 23.9

Date Sampled: 12/05/2016 1230
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394762	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394118	Lab File ID:	121516-37.D
Dilution:	1.0			Initial Weight/Volume:	3.796 g
Analysis Date:	12/16/2016 0437			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1230				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0736	U	0.0736	0.204
Bromoform		0.0572	U	0.0572	0.204
Chlorobenzene		0.0695	U	0.0695	0.204
cis-1,3-Dichloropropene		0.0695	U	0.0695	0.204
Dibromochloromethane		0.0347	U	0.0347	0.204
1,2-Dibromo-3-chloropropane		0.0715	U	0.0715	0.511
1,2-Dibromoethane		0.102	U	0.102	0.204
1,2-Dichlorobenzene		0.0347	U	0.0347	0.204
1,3-Dichlorobenzene		0.0695	U	0.0695	0.204
1,4-Dichlorobenzene		0.0960	U	0.0960	0.204
1,3-Dichloropropane		0.0960	U	0.0960	0.204
Ethylbenzene		0.0695	U	0.0695	0.204
Hexachlorobutadiene		0.112	U	0.112	0.511
2-Hexanone		1.72	U	1.72	5.11
Isopropylbenzene		0.0586	J	0.0429	0.204
4-Methyl-2-pentanone (MIBK)		1.74	U	1.74	5.11
m,p-Xylene		1.58		0.0572	0.307
Naphthalene		0.174	U	0.174	0.511
n-Butylbenzene		0.102	U	0.102	0.204
N-Propylbenzene		0.0800	J	0.0695	0.204
o-Chlorotoluene		0.0940	U	0.0940	0.204
o-Xylene		0.275		0.0695	0.204
p-Chlorotoluene		0.0858	U	0.0858	0.204
p-Isopropyltoluene		0.0695	U	0.0695	0.204
sec-Butylbenzene		0.0695	U	0.0695	0.204
Styrene		0.112	U	0.112	0.204
tert-Butylbenzene		0.102	U	0.102	0.204
1,1,1,2-Tetrachloroethane		0.0695	U	0.0695	0.204
1,1,2,2-Tetrachloroethane		0.102	U	0.102	0.204
Tetrachloroethene		0.0695	U	0.0695	0.204
Toluene		0.259		0.0756	0.204
trans-1,3-Dichloropropene		0.0695	U	0.0695	0.204
1,2,3-Trichlorobenzene		0.0388	U	0.0388	0.204
1,2,4-Trichlorobenzene		0.0695	U	0.0695	0.204
1,1,2-Trichloroethane		0.143	U	0.143	0.511
1,2,3-Trichloropropane		0.0572	U	0.0572	0.204
1,2,4-Trimethylbenzene		0.878		0.102	0.204
1,3,5-Trimethylbenzene		0.290		0.0777	0.204
Xylenes (total)		1.86		0.127	0.307

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	93		70 - 130
1,2-Dichloroethane-d4 (Surr)	92		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 472

Lab Sample ID: 490-118160-5
Client Matrix: Soil

% Moisture: 22.8

Date Sampled: 12/05/2016 0915
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394558	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394131	Lab File ID:	121516-16.D
Dilution:	1.0			Initial Weight/Volume:	5.035 g
Analysis Date:	12/15/2016 1753			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0915				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.104		0.0108	0.0643
Benzene		0.00122	J	0.000862	0.00257
Bromochloromethane		0.000708	U	0.000708	0.00257
Bromodichloromethane		0.000708	U	0.000708	0.00257
Bromoform		0.000708	U	0.000708	0.00257
Bromomethane		0.00154	U	0.00154	0.00257
2-Butanone (MEK)		0.0115	J	0.00656	0.0643
Carbon disulfide		0.00463	U	0.00463	0.00643
Carbon tetrachloride		0.000862	U	0.000862	0.00257
Chlorobenzene		0.000862	U	0.000862	0.00257
Chloroethane		0.00244	U	0.00244	0.00643
Chloroform		0.000862	U	0.000862	0.00257
Chloromethane		0.000862	U	0.000862	0.00257
cis-1,2-Dichloroethene		0.000862	U	0.000862	0.00257
cis-1,3-Dichloropropene		0.000862	U	0.000862	0.00257
Dibromochloromethane		0.000437	U	0.000437	0.00257
1,2-Dibromoethane		0.00129	U	0.00129	0.00257
Dichlorodifluoromethane		0.00129	U	0.00129	0.00257
1,1-Dichloroethane		0.000862	U	0.000862	0.00257
1,2-Dichloroethane		0.000862	U	0.000862	0.00257
1,1-Dichloroethene		0.000733	U	0.000733	0.00257
1,2-Dichloropropane		0.00121	U	0.00121	0.00257
1,3-Dichloropropane		0.00121	U	0.00121	0.00257
2,2-Dichloropropane		0.000862	U	0.000862	0.00257
1,1-Dichloropropene		0.000656	U	0.000656	0.00257
Ethylbenzene		0.000862	U	0.000862	0.00257
2-Hexanone		0.0215	U	0.0215	0.0643
Iodomethane		0.00862	U	0.00862	0.0257
Isopropylbenzene		0.000528	U	0.000528	0.00257
Methylene bromide		0.000721	U	0.000721	0.00257
Methylene Chloride		0.00111	U	0.00111	0.0129
4-Methyl-2-pentanone (MIBK)		0.00244	U	0.00244	0.0643
Methyl tert butyl ether		0.00124	U	0.00124	0.00257
m,p-Xylene		0.00167	J	0.000721	0.00515
o-Xylene		0.000862	U	0.000862	0.00257
Styrene		0.00142	U	0.00142	0.00257
1,1,1,2-Tetrachloroethane		0.000862	U	0.000862	0.00257
Tetrachloroethene		0.000939	U	0.000939	0.00257
Toluene		0.00246	J	0.000952	0.00257
trans-1,2-Dichloroethene		0.000862	U	0.000862	0.00257
trans-1,3-Dichloropropene		0.000862	U	0.000862	0.00257
1,1,1-Trichloroethane		0.00118	U	0.00118	0.00257
1,1,2-Trichloroethane		0.00180	U	0.00180	0.00643
Trichloroethene		0.00124	U	0.00124	0.00257
Trichlorofluoromethane		0.00129	U	0.00129	0.00257
Vinyl acetate		0.00566	U *	0.00566	0.0257

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 472

Lab Sample ID: 490-118160-5
Client Matrix: Soil

% Moisture: 22.8

Date Sampled: 12/05/2016 0915
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394558	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394131	Lab File ID:	121516-16.D
Dilution:	1.0			Initial Weight/Volume:	5.035 g
Analysis Date:	12/15/2016 1753			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0915				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl chloride		0.00142	U	0.00142	0.00257
Xylenes (total)		0.00167	J	0.00158	0.00772

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	148	*	70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	121		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 472

Lab Sample ID: 490-118160-5
Client Matrix: Soil

% Moisture: 22.8

Date Sampled: 12/05/2016 0915
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394558	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394131	Lab File ID:	121516-16.D
Dilution:	1.0			Initial Weight/Volume:	5.035 g
Analysis Date:	12/15/2016 1753			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0915				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
872-56-0	Isopropylcyclobutane	4.45	0.0226	J N
	Unknown	10.79	0.0226	J
	Unknown	11.42	0.0306	J
	Unknown	12.23	0.0237	J
	Unknown	12.31	0.0246	J
5617-41-4	Heptylcyclohexane	12.43	0.0367	J N
	Unknown	12.76	0.0956	J
	Unknown	12.98	0.0688	J
	Unknown	13.14	0.0306	J
	Unknown	13.29	0.101	J

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 472

Lab Sample ID: 490-118160-5
Client Matrix: Soil

% Moisture: 22.8

Date Sampled: 12/05/2016 0915
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394762	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394118	Lab File ID:	121516-38.D
Dilution:	1.0			Initial Weight/Volume:	6.53 g
Analysis Date:	12/16/2016 0508			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0915				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0464	U	0.0464	0.129
1,2-Dibromo-3-chloropropane		0.0451	U	0.0451	0.322
1,2-Dichlorobenzene		0.0219	U	0.0219	0.129
1,3-Dichlorobenzene		0.0438	U	0.0438	0.129
1,4-Dichlorobenzene		0.0605	U	0.0605	0.129
Hexachlorobutadiene		0.0708	U	0.0708	0.322
Naphthalene		0.109	U	0.109	0.322
n-Butylbenzene		0.0644	U	0.0644	0.129
N-Propylbenzene		0.0438	U	0.0438	0.129
o-Chlorotoluene		0.0592	U	0.0592	0.129
p-Chlorotoluene		0.0541	U	0.0541	0.129
p-Isopropyltoluene		0.0438	U	0.0438	0.129
sec-Butylbenzene		0.0438	U	0.0438	0.129
tert-Butylbenzene		0.0644	U	0.0644	0.129
1,1,2,2-Tetrachloroethane		0.0644	U	0.0644	0.129
1,2,3-Trichlorobenzene		0.0245	U	0.0245	0.129
1,2,4-Trichlorobenzene		0.0438	U	0.0438	0.129
1,2,3-Trichloropropane		0.0361	U	0.0361	0.129
1,2,4-Trimethylbenzene		0.0644	U	0.0644	0.129
1,3,5-Trimethylbenzene		0.0489	U	0.0489	0.129

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
Toluene-d8 (Surr)	90		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 473

Lab Sample ID: 490-118160-6
Client Matrix: Soil

% Moisture: 18.3

Date Sampled: 12/05/2016 0930
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394558	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394131	Lab File ID:	121516-18.D
Dilution:	1.0			Initial Weight/Volume:	8.085 g
Analysis Date:	12/15/2016 1855			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0930				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.108		0.00636	0.0378
Benzene		0.0155		0.000507	0.00151
Bromochloromethane		0.000416	U	0.000416	0.00151
Bromodichloromethane		0.000416	U	0.000416	0.00151
Bromomethane		0.000908	U	0.000908	0.00151
2-Butanone (MEK)		0.0182	J	0.00386	0.0378
Carbon disulfide		0.00372	J	0.00272	0.00378
Carbon tetrachloride		0.000507	U	0.000507	0.00151
Chloroethane		0.00144	U	0.00144	0.00378
Chloroform		0.000507	U	0.000507	0.00151
Chloromethane		0.000507	U	0.000507	0.00151
cis-1,2-Dichloroethene		0.000507	U	0.000507	0.00151
Dichlorodifluoromethane		0.000757	U	0.000757	0.00151
1,1-Dichloroethane		0.000507	U	0.000507	0.00151
1,2-Dichloroethane		0.000507	U	0.000507	0.00151
1,1-Dichloroethene		0.000431	U	0.000431	0.00151
1,2-Dichloropropane		0.000711	U	0.000711	0.00151
2,2-Dichloropropane		0.000507	U	0.000507	0.00151
1,1-Dichloropropene		0.000386	U	0.000386	0.00151
Iodomethane		0.00507	U	0.00507	0.0151
Methylene bromide		0.000424	U	0.000424	0.00151
Methylene Chloride		0.000651	U	0.000651	0.00757
Methyl tert butyl ether		0.000727	U	0.000727	0.00151
trans-1,2-Dichloroethene		0.000507	U	0.000507	0.00151
1,1,1-Trichloroethane		0.000696	U	0.000696	0.00151
Trichloroethene		0.000727	U	0.000727	0.00151
Trichlorofluoromethane		0.000757	U	0.000757	0.00151
Vinyl acetate		0.00333	U *	0.00333	0.0151
Vinyl chloride		0.000832	U	0.000832	0.00151

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	136	*	70 - 130
Dibromofluoromethane (Surr)	114		70 - 130
1,2-Dichloroethane-d4 (Surr)	117		70 - 130
Toluene-d8 (Surr)	162	*	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 473

Lab Sample ID: 490-118160-6
Client Matrix: Soil % Moisture: 18.3

Date Sampled: 12/05/2016 0930
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394558	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394131	Lab File ID:	121516-18.D
Dilution:	1.0			Initial Weight/Volume:	8.085 g
Analysis Date:	12/15/2016 1855			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0930				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
96-37-7	Cyclopentane, methyl-	3.67	0.187	J N
110-82-7	Cyclohexane	4.13	0.380	E
872-56-0	Isopropylcyclobutane	4.45	0.267	J N
108-87-2	Methylcyclohexane	4.94	0.863	E
592-27-8	Heptane, 2-methyl-	5.37	0.209	J N
589-81-1	Heptane, 3-methyl-	5.48	0.181	J N
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.97	0.184	J N
1678-91-7	Cyclohexane, ethyl-	6.45	0.418	J N
	Unknown	6.67	0.368	J
	Unknown	7.70	0.195	J

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 473

Lab Sample ID: 490-118160-6
Client Matrix: Soil

% Moisture: 18.3

Date Sampled: 12/05/2016 0930
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394762	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394118	Lab File ID:	121516-39.D
Dilution:	1.0			Initial Weight/Volume:	5.583 g
Analysis Date:	12/16/2016 0539			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0930				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0475	U	0.0475	0.132
Bromoform		0.0370	U	0.0370	0.132
Chlorobenzene		0.0449	U	0.0449	0.132
cis-1,3-Dichloropropene		0.0449	U	0.0449	0.132
Dibromochloromethane		0.0224	U	0.0224	0.132
1,2-Dibromo-3-chloropropane		0.0462	U	0.0462	0.330
1,2-Dibromoethane		0.0660	U	0.0660	0.132
1,2-Dichlorobenzene		0.0224	U	0.0224	0.132
1,3-Dichlorobenzene		0.0449	U	0.0449	0.132
1,4-Dichlorobenzene		0.0620	U	0.0620	0.132
1,3-Dichloropropane		0.0620	U	0.0620	0.132
Ethylbenzene		0.0548	J	0.0449	0.132
Hexachlorobutadiene		0.0726	U	0.0726	0.330
2-Hexanone		1.11	U	1.11	3.30
Isopropylbenzene		0.0491	J	0.0277	0.132
4-Methyl-2-pentanone (MIBK)		1.12	U	1.12	3.30
m,p-Xylene		0.581		0.0370	0.198
Naphthalene		0.121	J B	0.112	0.330
n-Butylbenzene		0.0660	U	0.0660	0.132
N-Propylbenzene		0.0606	J	0.0449	0.132
o-Chlorotoluene		0.0607	U	0.0607	0.132
o-Xylene		0.134		0.0449	0.132
p-Chlorotoluene		0.0554	U	0.0554	0.132
p-Isopropyltoluene		0.0449	U	0.0449	0.132
sec-Butylbenzene		0.0449	U	0.0449	0.132
Styrene		0.0726	U	0.0726	0.132
tert-Butylbenzene		0.0660	U	0.0660	0.132
1,1,1,2-Tetrachloroethane		0.0449	U	0.0449	0.132
1,1,2,2-Tetrachloroethane		0.0660	U	0.0660	0.132
Tetrachloroethene		0.0449	U	0.0449	0.132
Toluene		0.0488	U	0.0488	0.132
trans-1,3-Dichloropropene		0.0449	U	0.0449	0.132
1,2,3-Trichlorobenzene		0.0251	U	0.0251	0.132
1,2,4-Trichlorobenzene		0.0449	U	0.0449	0.132
1,1,2-Trichloroethane		0.0924	U	0.0924	0.330
1,2,3-Trichloropropane		0.0370	U	0.0370	0.132
1,2,4-Trimethylbenzene		0.725		0.0660	0.132
1,3,5-Trimethylbenzene		0.364		0.0501	0.132
Xylenes (total)		0.715		0.0818	0.198

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	84		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
Toluene-d8 (Surr)	93		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 474

Lab Sample ID: 490-118160-7
Client Matrix: Soil

% Moisture: 16.1

Date Sampled: 12/05/2016 0930
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394558	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394131	Lab File ID:	121516-17.D
Dilution:	1.0			Initial Weight/Volume:	5.449 g
Analysis Date:	12/15/2016 1824			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0930				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.217		0.00919	0.0547
Benzene		0.0361		0.000733	0.00219
Bromochloromethane		0.000601	U	0.000601	0.00219
Bromodichloromethane		0.000601	U	0.000601	0.00219
Bromomethane		0.00131	U	0.00131	0.00219
2-Butanone (MEK)		0.0503	J	0.00558	0.0547
Carbon disulfide		0.00935		0.00394	0.00547
Carbon tetrachloride		0.000733	U	0.000733	0.00219
Chloroethane		0.00208	U	0.00208	0.00547
Chloroform		0.000733	U	0.000733	0.00219
Chloromethane		0.000733	U	0.000733	0.00219
cis-1,2-Dichloroethene		0.000733	U	0.000733	0.00219
Dichlorodifluoromethane		0.00109	U	0.00109	0.00219
1,1-Dichloroethane		0.000733	U	0.000733	0.00219
1,2-Dichloroethane		0.000733	U	0.000733	0.00219
1,1-Dichloroethene		0.000623	U	0.000623	0.00219
1,2-Dichloropropane		0.00103	U	0.00103	0.00219
2,2-Dichloropropane		0.000733	U	0.000733	0.00219
1,1-Dichloropropene		0.000558	U	0.000558	0.00219
Iodomethane		0.00733	U	0.00733	0.0219
Methylene bromide		0.000612	U	0.000612	0.00219
Methylene Chloride		0.000940	U	0.000940	0.0109
Methyl tert butyl ether		0.00105	U	0.00105	0.00219
trans-1,2-Dichloroethene		0.000733	U	0.000733	0.00219
1,1,1-Trichloroethane		0.00101	U	0.00101	0.00219
Trichloroethene		0.00105	U	0.00105	0.00219
Trichlorofluoromethane		0.00109	U	0.00109	0.00219
Vinyl acetate		0.00481	U *	0.00481	0.0219
Vinyl chloride		0.00120	U	0.00120	0.00219

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	202	*	70 - 130
Dibromofluoromethane (Surr)	114		70 - 130
1,2-Dichloroethane-d4 (Surr)	115		70 - 130
Toluene-d8 (Surr)	123	*	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 474

Lab Sample ID: 490-118160-7
Client Matrix: Soil

% Moisture: 16.1

Date Sampled: 12/05/2016 0930
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394558	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394131	Lab File ID:	121516-17.D
Dilution:	1.0			Initial Weight/Volume:	5.449 g
Analysis Date:	12/15/2016 1824			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0930				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
	Unknown	9.60	0.231	J
	Unknown	9.70	0.286	J
	Unknown	10.79	0.228	J
	Unknown	10.97	0.668	J
	Unknown	11.38	0.316	J
	Unknown	11.77	0.314	J
	Unknown	11.92	0.482	J
	Unknown	12.33	0.680	J
	Unknown	12.77	0.373	J
	Unknown	12.95	0.346	J

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 474

Lab Sample ID: 490-118160-7
Client Matrix: Soil

% Moisture: 16.1

Date Sampled: 12/05/2016 0930
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394762	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394118	Lab File ID:	121516-40.D
Dilution:	1.0			Initial Weight/Volume:	4.962 g
Analysis Date:	12/16/2016 0609			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0930				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0501	U	0.0501	0.139
Bromoform		0.0390	U	0.0390	0.139
Chlorobenzene		0.0473	U	0.0473	0.139
cis-1,3-Dichloropropene		0.0473	U	0.0473	0.139
Dibromochloromethane		0.0237	U	0.0237	0.139
1,2-Dibromo-3-chloropropane		0.0487	U	0.0487	0.348
1,2-Dibromoethane		0.0696	U	0.0696	0.139
1,2-Dichlorobenzene		0.0237	U	0.0237	0.139
1,3-Dichlorobenzene		0.0473	U	0.0473	0.139
1,4-Dichlorobenzene		0.0654	U	0.0654	0.139
1,3-Dichloropropane		0.0654	U	0.0654	0.139
Ethylbenzene		0.0473	U	0.0473	0.139
Hexachlorobutadiene		0.0766	U	0.0766	0.348
2-Hexanone		1.17	U	1.17	3.48
Isopropylbenzene		0.0292	U	0.0292	0.139
4-Methyl-2-pentanone (MIBK)		1.18	U	1.18	3.48
m,p-Xylene		0.164	J	0.0390	0.209
Naphthalene		0.118	U	0.118	0.348
n-Butylbenzene		0.0696	U	0.0696	0.139
N-Propylbenzene		0.0473	U	0.0473	0.139
o-Chlorotoluene		0.0641	U	0.0641	0.139
o-Xylene		0.0473	U	0.0473	0.139
p-Chlorotoluene		0.0585	U	0.0585	0.139
p-Isopropyltoluene		0.0473	U	0.0473	0.139
sec-Butylbenzene		0.0473	U	0.0473	0.139
Styrene		0.0766	U	0.0766	0.139
tert-Butylbenzene		0.0696	U	0.0696	0.139
1,1,1,2-Tetrachloroethane		0.0473	U	0.0473	0.139
1,1,2,2-Tetrachloroethane		0.0696	U	0.0696	0.139
Tetrachloroethene		0.0473	U	0.0473	0.139
Toluene		0.388		0.0515	0.139
trans-1,3-Dichloropropene		0.0473	U	0.0473	0.139
1,2,3-Trichlorobenzene		0.0265	U	0.0265	0.139
1,2,4-Trichlorobenzene		0.0473	U	0.0473	0.139
1,1,2-Trichloroethane		0.0975	U	0.0975	0.348
1,2,3-Trichloropropane		0.0390	U	0.0390	0.139
1,2,4-Trimethylbenzene		0.126	J	0.0696	0.139
1,3,5-Trimethylbenzene		0.0529	U	0.0529	0.139
Xylenes (total)		0.164	J	0.0863	0.209

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
Toluene-d8 (Surr)	91		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 469

Lab Sample ID: 490-118160-8
Client Matrix: Soil

% Moisture: 18.1

Date Sampled: 12/05/2016 0900
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394890	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394131	Lab File ID:	121616-13.D
Dilution:	1.0			Initial Weight/Volume:	6.627 g
Analysis Date:	12/16/2016 1552			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.0909		0.00774	0.0461
Benzene		0.00131	J	0.000617	0.00184
Bromochloromethane		0.000507	U	0.000507	0.00184
Bromodichloromethane		0.000507	U	0.000507	0.00184
Bromoform		0.000507	U	0.000507	0.00184
Bromomethane		0.00111	U	0.00111	0.00184
2-Butanone (MEK)		0.0138	J	0.00470	0.0461
Carbon disulfide		0.00380	J	0.00332	0.00461
Carbon tetrachloride		0.000617	U	0.000617	0.00184
Chlorobenzene		0.000617	U	0.000617	0.00184
Chloroethane		0.00175	U	0.00175	0.00461
Chloroform		0.000617	U	0.000617	0.00184
Chloromethane		0.000617	U	0.000617	0.00184
cis-1,2-Dichloroethene		0.000617	U	0.000617	0.00184
cis-1,3-Dichloropropene		0.000617	U	0.000617	0.00184
Dibromochloromethane		0.000313	U	0.000313	0.00184
1,2-Dibromoethane		0.000921	U	0.000921	0.00184
Dichlorodifluoromethane		0.000921	U	0.000921	0.00184
1,1-Dichloroethane		0.000617	U	0.000617	0.00184
1,2-Dichloroethane		0.000617	U	0.000617	0.00184
1,1-Dichloroethene		0.000525	U	0.000525	0.00184
1,2-Dichloropropane		0.000866	U	0.000866	0.00184
1,3-Dichloropropane		0.000866	U	0.000866	0.00184
2,2-Dichloropropane		0.000617	U	0.000617	0.00184
1,1-Dichloropropene		0.000470	U	0.000470	0.00184
Ethylbenzene		0.000847	J	0.000617	0.00184
2-Hexanone		0.0154	U	0.0154	0.0461
Iodomethane		0.00617	U	0.00617	0.0184
Isopropylbenzene		0.00354		0.000378	0.00184
Methylene bromide		0.000516	U	0.000516	0.00184
Methylene Chloride		0.000792	U	0.000792	0.00921
4-Methyl-2-pentanone (MIBK)		0.00175	U	0.00175	0.0461
Methyl tert butyl ether		0.000884	U	0.000884	0.00184
m,p-Xylene		0.00743		0.000516	0.00368
o-Xylene		0.00319		0.000617	0.00184
Styrene		0.00101	U	0.00101	0.00184
1,1,1,2-Tetrachloroethane		0.000617	U	0.000617	0.00184
Tetrachloroethene		0.000672	U	0.000672	0.00184
Toluene		0.00258		0.000682	0.00184
trans-1,2-Dichloroethene		0.000617	U	0.000617	0.00184
trans-1,3-Dichloropropene		0.000617	U	0.000617	0.00184
1,1,1-Trichloroethane		0.000847	U	0.000847	0.00184
1,1,2-Trichloroethane		0.00129	U	0.00129	0.00461
Trichloroethene		0.000884	U	0.000884	0.00184
Trichlorofluoromethane		0.000921	U	0.000921	0.00184
Vinyl acetate		0.00405	U *	0.00405	0.0184

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 469

Lab Sample ID: 490-118160-8
Client Matrix: Soil

% Moisture: 18.1

Date Sampled: 12/05/2016 0900
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394890	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394131	Lab File ID:	121616-13.D
Dilution:	1.0			Initial Weight/Volume:	6.627 g
Analysis Date:	12/16/2016 1552			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Vinyl chloride		0.00101	U	0.00101	0.00184
Xylenes (total)		0.0106		0.00113	0.00553

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	159	*	70 - 130
Dibromofluoromethane (Surr)	108		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
Toluene-d8 (Surr)	128		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 469

Lab Sample ID: 490-118160-8
Client Matrix: Soil

% Moisture: 18.1

Date Sampled: 12/05/2016 0900
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394890	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394131	Lab File ID:	121616-13.D
Dilution:	1.0			Initial Weight/Volume:	6.627 g
Analysis Date:	12/16/2016 1552			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0900				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
96-37-7	Cyclopentane, methyl-	3.67	0.108	J N
110-82-7	Cyclohexane	4.13	0.156	
872-56-0	Isopropylcyclobutane	4.44	0.183	J N
108-87-2	Methylcyclohexane	4.94	0.308	
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.97	0.0939	J N
2207-04-7	Cyclohexane, 1,4-dimethyl-, trans-	6.06	0.116	J N
	Unknown	6.35	0.0998	J
1678-91-7	Cyclohexane, ethyl-	6.44	0.221	J N
7667-60-9	Cyclohexane, 1,2,4-trimethyl-, (1.alpha.,2.beta.,4.beta.)-	6.68	0.107	J N
1678-92-8	Cyclohexane, propyl-	7.70	0.146	J N

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 469

Lab Sample ID: 490-118160-8
Client Matrix: Soil

% Moisture: 18.1

Date Sampled: 12/05/2016 0900
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394762	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394118	Lab File ID:	121516-41.D
Dilution:	1.0			Initial Weight/Volume:	7.317 g
Analysis Date:	12/16/2016 0640			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0380	U	0.0380	0.105
1,2-Dibromo-3-chloropropane		0.0369	U	0.0369	0.264
1,2-Dichlorobenzene		0.0179	U	0.0179	0.105
1,3-Dichlorobenzene		0.0359	U	0.0359	0.105
1,4-Dichlorobenzene		0.0496	U	0.0496	0.105
Hexachlorobutadiene		0.0580	U	0.0580	0.264
Naphthalene		0.0897	U	0.0897	0.264
n-Butylbenzene		0.0527	U	0.0527	0.105
N-Propylbenzene		0.0359	U	0.0359	0.105
o-Chlorotoluene		0.0485	U	0.0485	0.105
p-Chlorotoluene		0.0443	U	0.0443	0.105
p-Isopropyltoluene		0.0359	U	0.0359	0.105
sec-Butylbenzene		0.0359	U	0.0359	0.105
tert-Butylbenzene		0.0527	U	0.0527	0.105
1,1,2,2-Tetrachloroethane		0.0527	U	0.0527	0.105
1,2,3-Trichlorobenzene		0.0200	U	0.0200	0.105
1,2,4-Trichlorobenzene		0.0359	U	0.0359	0.105
1,2,3-Trichloropropane		0.0295	U	0.0295	0.105
1,2,4-Trimethylbenzene		0.0527	U	0.0527	0.105
1,3,5-Trimethylbenzene		0.0401	U	0.0401	0.105

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
Toluene-d8 (Surr)	93		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 470

Lab Sample ID: 490-118160-9
Client Matrix: Soil

% Moisture: 20.3

Date Sampled: 12/05/2016 0900
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394558	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394131	Lab File ID:	121516-14.D
Dilution:	1.0			Initial Weight/Volume:	6.235 g
Analysis Date:	12/15/2016 1651			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.00846	U	0.00846	0.0503
Benzene		0.0113		0.000674	0.00201
Bromochloromethane		0.000554	U	0.000554	0.00201
Bromodichloromethane		0.000554	U	0.000554	0.00201
Bromomethane		0.00121	U	0.00121	0.00201
2-Butanone (MEK)		0.0203	J	0.00513	0.0503
Carbon disulfide		0.00441	J	0.00362	0.00503
Carbon tetrachloride		0.000674	U	0.000674	0.00201
Chloroethane		0.00191	U	0.00191	0.00503
Chloroform		0.000674	U	0.000674	0.00201
Chloromethane		0.000674	U	0.000674	0.00201
cis-1,2-Dichloroethene		0.000674	U	0.000674	0.00201
Dichlorodifluoromethane		0.00101	U	0.00101	0.00201
1,1-Dichloroethane		0.000674	U	0.000674	0.00201
1,2-Dichloroethane		0.000674	U	0.000674	0.00201
1,1-Dichloroethene		0.000574	U	0.000574	0.00201
1,2-Dichloropropane		0.000946	U	0.000946	0.00201
2,2-Dichloropropane		0.000674	U	0.000674	0.00201
1,1-Dichloropropene		0.000513	U	0.000513	0.00201
Iodomethane		0.00674	U	0.00674	0.0201
Methylene bromide		0.000564	U	0.000564	0.00201
Methylene Chloride		0.000866	U	0.000866	0.0101
Methyl tert butyl ether		0.000966	U	0.000966	0.00201
trans-1,2-Dichloroethene		0.000674	U	0.000674	0.00201
1,1,1-Trichloroethane		0.000926	U	0.000926	0.00201
Trichloroethene		0.000966	U	0.000966	0.00201
Trichlorofluoromethane		0.00101	U	0.00101	0.00201
Vinyl acetate		0.00443	U *	0.00443	0.0201
Vinyl chloride		0.00111	U	0.00111	0.00201

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	127	*	70 - 130
Dibromofluoromethane (Surr)	128		70 - 130
1,2-Dichloroethane-d4 (Surr)	132	*	70 - 130
Toluene-d8 (Surr)	161	*	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 470

Lab Sample ID: 490-118160-9
Client Matrix: Soil

% Moisture: 20.3

Date Sampled: 12/05/2016 0900
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394558	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394131	Lab File ID:	121516-14.D
Dilution:	1.0			Initial Weight/Volume:	6.235 g
Analysis Date:	12/15/2016 1651			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0900				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
78-78-4	Butane, 2-methyl-	2.11	1.11	J N
107-83-5	Pentane, 2-methyl-	2.92	0.939	J N
96-37-7	Cyclopentane, methyl-	3.67	0.994	J N
110-82-7	Cyclohexane	4.13	0.990	E
872-56-0	Isopropylcyclobutane	4.45	0.697	J N
108-87-2	Methylcyclohexane	4.94	0.814	E
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.97	0.289	J N
2207-04-7	Cyclohexane, 1,4-dimethyl-, trans-	6.06	0.284	J N
3073-66-3	Cyclohexane, 1,1,3-trimethyl-	6.49	0.504	J N
	Unknown	6.68	0.418	J

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 470

Lab Sample ID: 490-118160-9
Client Matrix: Soil

% Moisture: 20.3

Date Sampled: 12/05/2016 0900
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394762	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394118	Lab File ID:	121516-42.D
Dilution:	1.0			Initial Weight/Volume:	6.193 g
Analysis Date:	12/16/2016 0711			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0457	U	0.0457	0.127
Bromoform		0.0355	U	0.0355	0.127
Chlorobenzene		0.0431	U	0.0431	0.127
cis-1,3-Dichloropropene		0.0431	U	0.0431	0.127
Dibromochloromethane		0.0216	U	0.0216	0.127
1,2-Dibromo-3-chloropropane		0.0444	U	0.0444	0.317
1,2-Dibromoethane		0.0634	U	0.0634	0.127
1,2-Dichlorobenzene		0.0216	U	0.0216	0.127
1,3-Dichlorobenzene		0.0431	U	0.0431	0.127
1,4-Dichlorobenzene		0.0596	U	0.0596	0.127
1,3-Dichloropropane		0.0596	U	0.0596	0.127
Ethylbenzene		0.0431	U	0.0431	0.127
Hexachlorobutadiene		0.0698	U	0.0698	0.317
2-Hexanone		1.07	U	1.07	3.17
Isopropylbenzene		0.0266	U	0.0266	0.127
4-Methyl-2-pentanone (MIBK)		1.08	U	1.08	3.17
m,p-Xylene		0.0355	U	0.0355	0.190
Naphthalene		0.108	U	0.108	0.317
n-Butylbenzene		0.0634	U	0.0634	0.127
N-Propylbenzene		0.0431	U	0.0431	0.127
o-Chlorotoluene		0.0584	U	0.0584	0.127
o-Xylene		0.0431	U	0.0431	0.127
p-Chlorotoluene		0.0533	U	0.0533	0.127
p-Isopropyltoluene		0.0431	U	0.0431	0.127
sec-Butylbenzene		0.0431	U	0.0431	0.127
Styrene		0.0698	U	0.0698	0.127
tert-Butylbenzene		0.0634	U	0.0634	0.127
1,1,1,2-Tetrachloroethane		0.0431	U	0.0431	0.127
1,1,2,2-Tetrachloroethane		0.0634	U	0.0634	0.127
Tetrachloroethene		0.0431	U	0.0431	0.127
Toluene		0.0469	U	0.0469	0.127
trans-1,3-Dichloropropene		0.0431	U	0.0431	0.127
1,2,3-Trichlorobenzene		0.0241	U	0.0241	0.127
1,2,4-Trichlorobenzene		0.0431	U	0.0431	0.127
1,1,2-Trichloroethane		0.0888	U	0.0888	0.317
1,2,3-Trichloropropane		0.0355	U	0.0355	0.127
1,2,4-Trimethylbenzene		0.0634	U	0.0634	0.127
1,3,5-Trimethylbenzene		0.0482	U	0.0482	0.127
Xylenes (total)		0.0787	U	0.0787	0.190

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
Toluene-d8 (Surr)	91		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 471

Lab Sample ID: 490-118160-10
Client Matrix: Soil

% Moisture: 21.0

Date Sampled: 12/05/2016 0915
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394558	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394131	Lab File ID:	121516-13.D
Dilution:	1.0			Initial Weight/Volume:	6.35 g
Analysis Date:	12/15/2016 1620			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0915				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.00837	U	0.00837	0.0498
Benzene		0.00260		0.000667	0.00199
Bromochloromethane		0.000548	U	0.000548	0.00199
Bromodichloromethane		0.000548	U	0.000548	0.00199
Bromomethane		0.00120	U	0.00120	0.00199
2-Butanone (MEK)		0.0149	J	0.00508	0.0498
Carbon disulfide		0.00359	U	0.00359	0.00498
Carbon tetrachloride		0.000667	U	0.000667	0.00199
Chloroethane		0.00189	U	0.00189	0.00498
Chloroform		0.000667	U	0.000667	0.00199
Chloromethane		0.000667	U	0.000667	0.00199
cis-1,2-Dichloroethene		0.000667	U	0.000667	0.00199
Dichlorodifluoromethane		0.000996	U	0.000996	0.00199
1,1-Dichloroethane		0.000667	U	0.000667	0.00199
1,2-Dichloroethane		0.000667	U	0.000667	0.00199
1,1-Dichloroethene		0.000568	U	0.000568	0.00199
1,2-Dichloropropane		0.000936	U	0.000936	0.00199
2,2-Dichloropropane		0.000667	U	0.000667	0.00199
1,1-Dichloropropene		0.000508	U	0.000508	0.00199
Iodomethane		0.00667	U	0.00667	0.0199
Methylene bromide		0.000558	U	0.000558	0.00199
Methylene Chloride		0.000857	U	0.000857	0.00996
Methyl tert butyl ether		0.000956	U	0.000956	0.00199
trans-1,2-Dichloroethene		0.000667	U	0.000667	0.00199
1,1,1-Trichloroethane		0.000916	U	0.000916	0.00199
Trichloroethene		0.000956	U	0.000956	0.00199
Trichlorofluoromethane		0.000996	U	0.000996	0.00199
Vinyl acetate		0.00438	U *	0.00438	0.0199
Vinyl chloride		0.00110	U	0.00110	0.00199

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	146	*	70 - 130
Dibromofluoromethane (Surr)	120		70 - 130
1,2-Dichloroethane-d4 (Surr)	121		70 - 130
Toluene-d8 (Surr)	125	*	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 471

Lab Sample ID: 490-118160-10
Client Matrix: Soil

% Moisture: 21.0

Date Sampled: 12/05/2016 0915
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394558	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394131	Lab File ID:	121516-13.D
Dilution:	1.0			Initial Weight/Volume:	6.35 g
Analysis Date:	12/15/2016 1620			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0915				

Tentatively Identified Compounds **Number TIC's Found: 10**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
78-78-4	Butane, 2-methyl-	2.12	0.339	J N
96-14-0	Pentane, 3-methyl-	3.08	0.366	J N
108-08-7	Pentane, 2,4-dimethyl-	3.60	0.123	J N
96-37-7	Cyclopentane, methyl-	3.67	0.152	J N
110-82-7	Cyclohexane	4.13	0.194	
108-87-2	Methylcyclohexane	4.94	0.206	
3073-66-3	Cyclohexane, 1,1,3-trimethyl-	6.49	0.139	J N
	Unknown	11.01	0.221	J
	Unknown	12.01	0.247	J
3891-98-3	Dodecane, 2,6,10-trimethyl-	12.54	0.180	J N

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 471

Lab Sample ID: 490-118160-10
Client Matrix: Soil

% Moisture: 21.0

Date Sampled: 12/05/2016 0915
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-394762	Instrument ID:	HP67
Prep Method:	5035A	Prep Batch:	490-394118	Lab File ID:	121516-43.D
Dilution:	1.0			Initial Weight/Volume:	6.371 g
Analysis Date:	12/16/2016 0741			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 0915				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Bromobenzene		0.0453	U	0.0453	0.126
Bromoform		0.0352	U	0.0352	0.126
Chlorobenzene		0.0428	U	0.0428	0.126
cis-1,3-Dichloropropene		0.0428	U	0.0428	0.126
Dibromochloromethane		0.0214	U	0.0214	0.126
1,2-Dibromo-3-chloropropane		0.0440	U	0.0440	0.314
1,2-Dibromoethane		0.0629	U	0.0629	0.126
1,2-Dichlorobenzene		0.0214	U	0.0214	0.126
1,3-Dichlorobenzene		0.0428	U	0.0428	0.126
1,4-Dichlorobenzene		0.0591	U	0.0591	0.126
1,3-Dichloropropane		0.0591	U	0.0591	0.126
Ethylbenzene		0.0428	U	0.0428	0.126
Hexachlorobutadiene		0.0692	U	0.0692	0.314
2-Hexanone		1.06	U	1.06	3.14
Isopropylbenzene		0.0264	U	0.0264	0.126
4-Methyl-2-pentanone (MIBK)		1.07	U	1.07	3.14
m,p-Xylene		0.0352	U	0.0352	0.189
Naphthalene		0.107	U	0.107	0.314
n-Butylbenzene		0.0629	U	0.0629	0.126
N-Propylbenzene		0.0428	U	0.0428	0.126
o-Chlorotoluene		0.0579	U	0.0579	0.126
o-Xylene		0.0428	U	0.0428	0.126
p-Chlorotoluene		0.0528	U	0.0528	0.126
p-Isopropyltoluene		0.0428	U	0.0428	0.126
sec-Butylbenzene		0.0428	U	0.0428	0.126
Styrene		0.0692	U	0.0692	0.126
tert-Butylbenzene		0.0629	U	0.0629	0.126
1,1,1,2-Tetrachloroethane		0.0428	U	0.0428	0.126
1,1,2,2-Tetrachloroethane		0.0629	U	0.0629	0.126
Tetrachloroethene		0.0428	U	0.0428	0.126
Toluene		0.0465	U	0.0465	0.126
trans-1,3-Dichloropropene		0.0428	U	0.0428	0.126
1,2,3-Trichlorobenzene		0.0239	U	0.0239	0.126
1,2,4-Trichlorobenzene		0.0428	U	0.0428	0.126
1,1,2-Trichloroethane		0.0881	U	0.0881	0.314
1,2,3-Trichloropropane		0.0352	U	0.0352	0.126
1,2,4-Trimethylbenzene		0.0629	U	0.0629	0.126
1,3,5-Trimethylbenzene		0.0478	U	0.0478	0.126
Xylenes (total)		0.0780	U	0.0780	0.189

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
Toluene-d8 (Surr)	93		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: **Trip Blank**

Lab Sample ID: 490-118160-11TB
Client Matrix: Soil

Date Sampled: 10/07/2016 0101
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-396079	Instrument ID:	HP67
Prep Method:	5035	Prep Batch:	490-394510	Lab File ID:	122116-13.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Analysis Date:	12/21/2016 1624			Final Weight/Volume:	5.0 mL
Prep Date:	10/07/2016 0001				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Acetone		0.00840	U	0.00840	0.0500
Benzene		0.000670	U	0.000670	0.00200
Bromobenzene		0.000720	U	0.000720	0.00200
Bromochloromethane		0.000550	U	0.000550	0.00200
Bromodichloromethane		0.000550	U	0.000550	0.00200
Bromoform		0.000550	U	0.000550	0.00200
Bromomethane		0.00120	U	0.00120	0.00200
2-Butanone (MEK)		0.00510	U	0.00510	0.0500
Carbon disulfide		0.00360	U	0.00360	0.00500
Carbon tetrachloride		0.000670	U	0.000670	0.00200
Chlorobenzene		0.000670	U	0.000670	0.00200
Chloroethane		0.00190	U	0.00190	0.00500
Chloroform		0.000670	U	0.000670	0.00200
Chloromethane		0.000670	U	0.000670	0.00200
cis-1,2-Dichloroethene		0.000670	U	0.000670	0.00200
cis-1,3-Dichloropropene		0.000670	U	0.000670	0.00200
Dibromochloromethane		0.000340	U	0.000340	0.00200
1,2-Dibromo-3-chloropropane		0.000700	U	0.000700	0.00500
1,2-Dibromoethane		0.00100	U	0.00100	0.00200
1,2-Dichlorobenzene		0.000340	U	0.000340	0.00200
1,3-Dichlorobenzene		0.000670	U	0.000670	0.00200
1,4-Dichlorobenzene		0.000670	U	0.000670	0.00200
Dichlorodifluoromethane		0.00100	U	0.00100	0.00200
1,1-Dichloroethane		0.000670	U	0.000670	0.00200
1,2-Dichloroethane		0.000670	U	0.000670	0.00200
1,1-Dichloroethene		0.000570	U	0.000570	0.00200
1,2-Dichloropropane		0.000940	U	0.000940	0.00200
1,3-Dichloropropane		0.000940	U	0.000940	0.00200
2,2-Dichloropropane		0.000670	U	0.000670	0.00200
1,1-Dichloropropene		0.000510	U	0.000510	0.00200
Ethylbenzene		0.000670	U	0.000670	0.00200
Hexachlorobutadiene		0.00114	U	0.00114	0.00500
2-Hexanone		0.0167	U	0.0167	0.0500
Iodomethane		0.00670	U	0.00670	0.0200
Isopropylbenzene		0.000410	U	0.000410	0.00200
Methylene bromide		0.000560	U	0.000560	0.00200
Methylene Chloride		0.000860	U	0.000860	0.0100
4-Methyl-2-pentanone (MIBK)		0.00190	U	0.00190	0.0500
Methyl tert butyl ether		0.000960	U	0.000960	0.00200
m,p-Xylene		0.000560	U	0.000560	0.00400
Naphthalene		0.00170	U	0.00170	0.00500
n-Butylbenzene		0.000980	U	0.000980	0.00200
N-Propylbenzene		0.000670	U	0.000670	0.00200
o-Chlorotoluene		0.000890	U	0.000890	0.00200
o-Xylene		0.000670	U	0.000670	0.00200
p-Chlorotoluene		0.000840	U	0.000840	0.00200

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: **Trip Blank**

Lab Sample ID: 490-118160-11TB
Client Matrix: Soil

Date Sampled: 10/07/2016 0101
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-396079	Instrument ID:	HP67
Prep Method:	5035	Prep Batch:	490-394510	Lab File ID:	122116-13.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Analysis Date:	12/21/2016 1624			Final Weight/Volume:	5.0 mL
Prep Date:	10/07/2016 0001				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
p-Isopropyltoluene		0.000670	U	0.000670	0.00200
sec-Butylbenzene		0.000670	U	0.000670	0.00200
Styrene		0.00110	U	0.00110	0.00200
tert-Butylbenzene		0.000900	U	0.000900	0.00200
1,1,1,2-Tetrachloroethane		0.000670	U	0.000670	0.00200
1,1,2,2-Tetrachloroethane		0.00100	U	0.00100	0.00200
Tetrachloroethene		0.000730	U	0.000730	0.00200
Toluene		0.000740	U	0.000740	0.00200
trans-1,2-Dichloroethene		0.000670	U	0.000670	0.00200
trans-1,3-Dichloropropene		0.000670	U	0.000670	0.00200
1,2,3-Trichlorobenzene		0.000380	U	0.000380	0.00200
1,2,4-Trichlorobenzene		0.000670	U	0.000670	0.00200
1,1,1-Trichloroethane		0.000920	U	0.000920	0.00200
1,1,2-Trichloroethane		0.00140	U	0.00140	0.00500
Trichloroethene		0.000960	U	0.000960	0.00200
Trichlorofluoromethane		0.00100	U	0.00100	0.00200
1,2,3-Trichloropropane		0.000550	U	0.000550	0.00200
1,2,4-Trimethylbenzene		0.00100	U	0.00100	0.00200
1,3,5-Trimethylbenzene		0.000750	U	0.000750	0.00200
Vinyl acetate		0.00440	U *	0.00440	0.0200
Vinyl chloride		0.00110	U	0.00110	0.00200
Xylenes (total)		0.00123	U	0.00123	0.00600

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	90		70 - 130
Dibromofluoromethane (Surr)	105		70 - 130
Toluene-d8 (Surr)	92		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: **Trip Blank**

Lab Sample ID: 490-118160-11TB
Client Matrix: Soil

Date Sampled: 10/07/2016 0101
Date Received: 12/12/2016 0850

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	490-396079	Instrument ID:	HP67
Prep Method:	5035	Prep Batch:	490-394510	Lab File ID:	122116-13.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Analysis Date:	12/21/2016 1624			Final Weight/Volume:	5.0 mL
Prep Date:	10/07/2016 0001				

Tentatively Identified Compounds **Number TIC's Found: 0**

Cas Number	Analyte	RT	Est. Result (mg/Kg)	Qualifier
	Tentatively Identified Compound		None	H

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 478

Lab Sample ID: 490-118160-1
Client Matrix: Soil

% Moisture: 21.1

Date Sampled: 12/06/2016 0815
Date Received: 12/12/2016 0850

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-395625	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-394683	Lab File ID:	121916-029.D
Dilution:	5.0			Initial Weight/Volume:	30.34 g
Analysis Date:	12/20/2016 0254			Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.200	U	0.200	0.420
Acenaphthylene		0.182	U	0.182	0.420
Aniline		1.58	U	1.58	4.20
Anthracene		0.182	U	0.182	0.420
Benzidine		1.28	U	1.28	2.09
Benzo(a)anthracene		0.188	U	0.188	0.420
Benzo(a)pyrene		0.169	U	0.169	0.420
Benzo(b)fluoranthene		0.175	U	0.175	0.420
Benzo(g,h,i)perylene		0.207	U	0.207	0.420
Benzoic acid		0.376	U	0.376	2.09
Benzo(k)fluoranthene		0.169	U	0.169	0.420
Benzyl alcohol		1.21	U	1.21	2.09
Bis(2-chloroethoxy)methane		1.25	U	1.25	2.09
Bis(2-chloroethyl)ether		1.33	U	1.33	2.09
bis (2-chloroisopropyl) ether		1.24	U	1.24	2.09
Bis(2-ethylhexyl)phthalate		1.30	U	1.30	2.09
4-Bromophenyl phenyl ether		1.28	U	1.28	2.09
Butyl benzyl phthalate		1.35	U	1.35	2.09
Carbazole		1.30	U	1.30	2.09
4-Chloroaniline		1.42	U	1.42	2.09
4-Chloro-3-methylphenol		1.05	U	1.05	2.09
2-Chloronaphthalene		1.31	U	1.31	2.09
2-Chlorophenol		1.20	U	1.20	2.09
4-Chlorophenyl phenyl ether		1.26	U	1.26	2.09
Chrysene		0.232	U	0.232	0.420
Dibenzo(a,h)anthracene		0.200	U	0.200	0.420
Dibenzofuran		1.32	U	1.32	2.09
1,2-Dichlorobenzene		1.19	U	1.19	2.09
1,3-Dichlorobenzene		1.19	U	1.19	2.09
1,4-Dichlorobenzene		1.23	U	1.23	2.09
3,3'-Dichlorobenzidine		1.28	U	1.28	4.20
2,4-Dichlorophenol		1.10	U	1.10	2.09
Diethyl phthalate		1.33	U	1.33	2.09
2,4-Dimethylphenol		2.10	U	2.10	4.20
Dimethyl phthalate		1.30	U	1.30	2.09
Di-n-butyl phthalate		1.32	U	1.32	2.09
4,6-Dinitro-o-cresol		1.43	U	1.43	2.09
2,4-Dinitrophenol		1.57	U	1.57	2.09
2,4-Dinitrotoluene		1.30	U	1.30	2.09
2,6-Dinitrotoluene		1.40	U	1.40	2.09
Di-n-octyl phthalate		1.11	U	1.11	2.09
1,2-Diphenylhydrazine (as Azobenzene)		1.47	U	1.47	2.09
Fluoranthene		0.213	U	0.213	0.420
Fluorene		0.182	U	0.182	0.420
Hexachlorobenzene		1.57	U	1.57	2.09
Hexachlorobutadiene		1.05	U	1.05	2.09

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 478

Lab Sample ID: 490-118160-1
Client Matrix: Soil

% Moisture: 21.1

Date Sampled: 12/06/2016 0815
Date Received: 12/12/2016 0850

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-395625	Instrument ID:	HP91
Prep Method:	3550C	Prep Batch:	490-394683	Lab File ID:	121916-029.D
Dilution:	5.0			Initial Weight/Volume:	30.34 g
Analysis Date:	12/20/2016 0254			Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.939	U *	0.939	2.09
Hexachloroethane		1.13	U	1.13	2.09
Ideno(1,2,3-cd)pyrene		0.182	U	0.182	0.420
Isophorone		1.18	U	1.18	2.09
1-Methylnaphthalene		0.175	U	0.175	0.420
2-Methylnaphthalene		0.163	U	0.163	0.420
Naphthalene		0.182	U	0.182	0.420
2-Nitroaniline		1.30	U	1.30	2.09
3-Nitroaniline		1.44	U	1.44	4.20
4-Nitroaniline		1.49	U	1.49	4.20
Nitrobenzene		1.26	U	1.26	2.09
2-Nitrophenol		1.52	U	1.52	2.09
4-Nitrophenol		2.39	U *	2.39	4.20
N-Nitrosodimethylamine		0.125	U	0.125	2.09
N-Nitrosodi-n-propylamine		1.21	U	1.21	2.09
N-Nitrosodiphenylamine		0.332	U	0.332	2.09
Pentachlorophenol		1.67	U	1.67	4.20
Phenanthrene		0.213	U	0.213	0.420
Phenol		1.27	U	1.27	2.09
Pyrene		0.213	U	0.213	0.420
Pyridine		1.25	U	1.25	4.20
1,2,4-Trichlorobenzene		1.13	U	1.13	2.09
2,4,5-Trichlorophenol		1.37	U	1.37	2.09
2,4,6-Trichlorophenol		1.20	U	1.20	2.09

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	57		29 - 120
2-Fluorophenol (Surr)	52		10 - 120
Nitrobenzene-d5 (Surr)	65		27 - 120
Phenol-d5 (Surr)	50		10 - 120
Terphenyl-d14 (Surr)	64		13 - 120
2,4,6-Tribromophenol (Surr)	64		10 - 120

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 477

Lab Sample ID: 490-118160-2
Client Matrix: Soil

% Moisture: 33.3

Date Sampled: 12/05/2016 1230
Date Received: 12/12/2016 0850

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-395424	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-394683	Lab File ID:	121916-20.D
Dilution:	5.0			Initial Weight/Volume:	30.45 g
Analysis Date:	12/19/2016 1602			Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.236	U	0.236	0.495
Acenaphthylene		0.214	U	0.214	0.495
Aniline		1.87	U	1.87	4.95
Anthracene		0.214	U	0.214	0.495
Benzidine		1.51	U	1.51	2.46
Benzo(a)anthracene		0.221	U	0.221	0.495
Benzo(a)pyrene		0.199	U	0.199	0.495
Benzo(b)fluoranthene		0.207	U	0.207	0.495
Benzo(g,h,i)perylene		0.244	U	0.244	0.495
Benzoic acid		0.443	U	0.443	2.46
Benzo(k)fluoranthene		0.199	U	0.199	0.495
Benzyl alcohol		1.43	U	1.43	2.46
Bis(2-chloroethoxy)methane		1.48	U	1.48	2.46
Bis(2-chloroethyl)ether		1.57	U	1.57	2.46
bis (2-chloroisopropyl) ether		1.46	U	1.46	2.46
Bis(2-ethylhexyl)phthalate		1.53	U	1.53	2.46
4-Bromophenyl phenyl ether		1.51	U	1.51	2.46
Butyl benzyl phthalate		1.59	U	1.59	2.46
Carbazole		1.53	U	1.53	2.46
4-Chloroaniline		1.68	U	1.68	2.46
4-Chloro-3-methylphenol		1.24	U	1.24	2.46
2-Chloronaphthalene		1.54	U	1.54	2.46
2-Chlorophenol		1.41	U	1.41	2.46
4-Chlorophenyl phenyl ether		1.48	U	1.48	2.46
Chrysene		0.273	U	0.273	0.495
Dibenzo(a,h)anthracene		0.236	U	0.236	0.495
Dibenzofuran		1.55	U	1.55	2.46
1,2-Dichlorobenzene		1.40	U	1.40	2.46
1,3-Dichlorobenzene		1.40	U	1.40	2.46
1,4-Dichlorobenzene		1.45	U	1.45	2.46
3,3'-Dichlorobenzidine		1.51	U	1.51	4.95
2,4-Dichlorophenol		1.29	U	1.29	2.46
Diethyl phthalate		1.57	U	1.57	2.46
2,4-Dimethylphenol		2.47	U	2.47	4.95
Dimethyl phthalate		1.53	U	1.53	2.46
Di-n-butyl phthalate		1.56	U	1.56	2.46
4,6-Dinitro-o-cresol		1.69	U	1.69	2.46
2,4-Dinitrophenol		1.85	U	1.85	2.46
2,4-Dinitrotoluene		1.54	U	1.54	2.46
2,6-Dinitrotoluene		1.65	U	1.65	2.46
Di-n-octyl phthalate		1.31	U	1.31	2.46
1,2-Diphenylhydrazine (as Azobenzene)		1.73	U	1.73	2.46
Fluoranthene		0.251	U	0.251	0.495
Fluorene		0.214	U	0.214	0.495
Hexachlorobenzene		1.85	U	1.85	2.46
Hexachlorobutadiene		1.23	U	1.23	2.46

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 477

Lab Sample ID: 490-118160-2
Client Matrix: Soil

% Moisture: 33.3

Date Sampled: 12/05/2016 1230
Date Received: 12/12/2016 0850

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-395424	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-394683	Lab File ID:	121916-20.D
Dilution:	5.0			Initial Weight/Volume:	30.45 g
Analysis Date:	12/19/2016 1602			Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		1.11	U *	1.11	2.46
Hexachloroethane		1.34	U	1.34	2.46
Ideno(1,2,3-cd)pyrene		0.214	U	0.214	0.495
Isophorone		1.39	U	1.39	2.46
1-Methylnaphthalene		0.207	U	0.207	0.495
2-Methylnaphthalene		0.192	U	0.192	0.495
Naphthalene		0.214	U	0.214	0.495
2-Nitroaniline		1.53	U	1.53	2.46
3-Nitroaniline		1.70	U	1.70	4.95
4-Nitroaniline		1.76	U	1.76	4.95
Nitrobenzene		1.48	U	1.48	2.46
2-Nitrophenol		1.79	U	1.79	2.46
4-Nitrophenol		2.82	U *	2.82	4.95
N-Nitrosodimethylamine		0.148	U	0.148	2.46
N-Nitrosodi-n-propylamine		1.43	U	1.43	2.46
N-Nitrosodiphenylamine		0.391	U	0.391	2.46
Pentachlorophenol		1.96	U	1.96	4.95
Phenanthrene		0.251	U	0.251	0.495
Phenol		1.50	U	1.50	2.46
Pyrene		0.251	U	0.251	0.495
Pyridine		1.47	U	1.47	4.95
1,2,4-Trichlorobenzene		1.34	U	1.34	2.46
2,4,5-Trichlorophenol		1.61	U	1.61	2.46
2,4,6-Trichlorophenol		1.42	U	1.42	2.46

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	72		29 - 120
2-Fluorophenol (Surr)	58		10 - 120
Nitrobenzene-d5 (Surr)	59		27 - 120
Phenol-d5 (Surr)	62		10 - 120
Terphenyl-d14 (Surr)	83		13 - 120
2,4,6-Tribromophenol (Surr)	89		10 - 120

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 475

Lab Sample ID: 490-118160-3
Client Matrix: Soil

% Moisture: 15.3

Date Sampled: 12/05/2016 0945
Date Received: 12/12/2016 0850

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-395424	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-394683	Lab File ID:	121916-21.D
Dilution:	1.0			Initial Weight/Volume:	30.59 g
Analysis Date:	12/19/2016 1619			Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0370	U	0.0370	0.0776
Acenaphthylene		0.0336	U	0.0336	0.0776
Aniline		0.293	U	0.293	0.776
Anthracene		0.0336	U	0.0336	0.0776
Benzidine		0.236	U	0.236	0.385
Benzo(a)anthracene		0.0347	U	0.0347	0.0776
Benzo(a)pyrene		0.0313	U	0.0313	0.0776
Benzo(b)fluoranthene		0.0324	U	0.0324	0.0776
Benzo(g,h,i)perylene		0.0382	U	0.0382	0.0776
Benzoic acid		0.0695	U	0.0695	0.385
Benzo(k)fluoranthene		0.0313	U	0.0313	0.0776
Benzyl alcohol		0.225	U	0.225	0.385
Bis(2-chloroethoxy)methane		0.232	U	0.232	0.385
Bis(2-chloroethyl)ether		0.247	U	0.247	0.385
bis (2-chloroisopropyl) ether		0.229	U	0.229	0.385
Bis(2-ethylhexyl)phthalate		0.240	U	0.240	0.385
4-Bromophenyl phenyl ether		0.237	U	0.237	0.385
Butyl benzyl phthalate		0.249	U	0.249	0.385
Carbazole		0.240	U	0.240	0.385
4-Chloroaniline		0.263	U	0.263	0.385
4-Chloro-3-methylphenol		0.194	U	0.194	0.385
2-Chloronaphthalene		0.242	U	0.242	0.385
2-Chlorophenol		0.221	U	0.221	0.385
4-Chlorophenyl phenyl ether		0.233	U	0.233	0.385
Chrysene		0.0428	U	0.0428	0.0776
Dibenzo(a,h)anthracene		0.0370	U	0.0370	0.0776
Dibenzofuran		0.243	U	0.243	0.385
1,2-Dichlorobenzene		0.220	U	0.220	0.385
1,3-Dichlorobenzene		0.220	U	0.220	0.385
1,4-Dichlorobenzene		0.227	U	0.227	0.385
3,3'-Dichlorobenzidine		0.236	U	0.236	0.776
2,4-Dichlorophenol		0.203	U	0.203	0.385
Diethyl phthalate		0.245	U	0.245	0.385
2,4-Dimethylphenol		0.388	U	0.388	0.776
Dimethyl phthalate		0.240	U	0.240	0.385
Di-n-butyl phthalate		0.244	U	0.244	0.385
4,6-Dinitro-o-cresol		0.265	U	0.265	0.385
2,4-Dinitrophenol		0.291	U	0.291	0.385
2,4-Dinitrotoluene		0.241	U	0.241	0.385
2,6-Dinitrotoluene		0.258	U	0.258	0.385
Di-n-octyl phthalate		0.206	U	0.206	0.385
1,2-Diphenylhydrazine (as Azobenzene)		0.271	U	0.271	0.385
Fluoranthene		0.0394	U	0.0394	0.0776
Fluorene		0.0336	U	0.0336	0.0776
Hexachlorobenzene		0.289	U	0.289	0.385
Hexachlorobutadiene		0.193	U	0.193	0.385

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 475

Lab Sample ID: 490-118160-3
Client Matrix: Soil

% Moisture: 15.3

Date Sampled: 12/05/2016 0945
Date Received: 12/12/2016 0850

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-395424	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-394683	Lab File ID:	121916-21.D
Dilution:	1.0			Initial Weight/Volume:	30.59 g
Analysis Date:	12/19/2016 1619			Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.174	U *	0.174	0.385
Hexachloroethane		0.210	U	0.210	0.385
Ideno(1,2,3-cd)pyrene		0.0336	U	0.0336	0.0776
Isophorone		0.218	U	0.218	0.385
1-Methylnaphthalene		0.0324	U	0.0324	0.0776
2-Methylnaphthalene		0.0301	U	0.0301	0.0776
Naphthalene		0.0336	U	0.0336	0.0776
2-Nitroaniline		0.240	U	0.240	0.385
3-Nitroaniline		0.266	U	0.266	0.776
4-Nitroaniline		0.276	U	0.276	0.776
Nitrobenzene		0.233	U	0.233	0.385
2-Nitrophenol		0.281	U	0.281	0.385
4-Nitrophenol		0.442	U *	0.442	0.776
N-Nitrosodimethylamine		0.0232	U	0.0232	0.385
N-Nitrosodi-n-propylamine		0.225	U	0.225	0.385
N-Nitrosodiphenylamine		0.0614	U	0.0614	0.385
Pentachlorophenol		0.308	U	0.308	0.776
Phenanthrene		0.0394	U	0.0394	0.0776
Phenol		0.235	U	0.235	0.385
Pyrene		0.0394	U	0.0394	0.0776
Pyridine		0.230	U	0.230	0.776
1,2,4-Trichlorobenzene		0.210	U	0.210	0.385
2,4,5-Trichlorophenol		0.252	U	0.252	0.385
2,4,6-Trichlorophenol		0.222	U	0.222	0.385

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	74		29 - 120
2-Fluorophenol (Surr)	46		10 - 120
Nitrobenzene-d5 (Surr)	68		27 - 120
Phenol-d5 (Surr)	58		10 - 120
Terphenyl-d14 (Surr)	81		13 - 120
2,4,6-Tribromophenol (Surr)	66		10 - 120

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 476

Lab Sample ID: 490-118160-4
Client Matrix: Soil

% Moisture: 23.9

Date Sampled: 12/05/2016 1230
Date Received: 12/12/2016 0850

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-395424	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-394683	Lab File ID:	121916-22.D
Dilution:	10			Initial Weight/Volume:	30.73 g
Analysis Date:	12/19/2016 1637			Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.410	U	0.410	0.859
Acenaphthylene		0.372	U	0.372	0.859
Aniline		3.24	U	3.24	8.59
Anthracene		0.372	U	0.372	0.859
Benzidine		2.62	U	2.62	4.27
Benzo(a)anthracene		0.385	U	0.385	0.859
Benzo(a)pyrene		0.346	U	0.346	0.859
Benzo(b)fluoranthene		0.359	U	0.359	0.859
Benzo(g,h,i)perylene		0.423	U	0.423	0.859
Benzoic acid		0.769	U	0.769	4.27
Benzo(k)fluoranthene		0.346	U	0.346	0.859
Benzyl alcohol		2.49	U	2.49	4.27
Bis(2-chloroethoxy)methane		2.56	U	2.56	4.27
Bis(2-chloroethyl)ether		2.73	U	2.73	4.27
bis (2-chloroisopropyl) ether		2.54	U	2.54	4.27
Bis(2-ethylhexyl)phthalate		2.65	U	2.65	4.27
4-Bromophenyl phenyl ether		2.63	U	2.63	4.27
Butyl benzyl phthalate		2.76	U	2.76	4.27
Carbazole		2.65	U	2.65	4.27
4-Chloroaniline		2.91	U	2.91	4.27
4-Chloro-3-methylphenol		2.15	U	2.15	4.27
2-Chloronaphthalene		2.68	U	2.68	4.27
2-Chlorophenol		2.45	U	2.45	4.27
4-Chlorophenyl phenyl ether		2.58	U	2.58	4.27
Chrysene		0.568	J	0.474	0.859
Dibenzo(a,h)anthracene		0.410	U	0.410	0.859
Dibenzofuran		2.69	U	2.69	4.27
1,2-Dichlorobenzene		2.44	U	2.44	4.27
1,3-Dichlorobenzene		2.44	U	2.44	4.27
1,4-Dichlorobenzene		2.51	U	2.51	4.27
3,3'-Dichlorobenzidine		2.62	U	2.62	8.59
2,4-Dichlorophenol		2.24	U	2.24	4.27
Diethyl phthalate		2.72	U	2.72	4.27
2,4-Dimethylphenol		4.30	U	4.30	8.59
Dimethyl phthalate		2.65	U	2.65	4.27
Di-n-butyl phthalate		2.71	U	2.71	4.27
4,6-Dinitro-o-cresol		2.94	U	2.94	4.27
2,4-Dinitrophenol		3.22	U	3.22	4.27
2,4-Dinitrotoluene		2.67	U	2.67	4.27
2,6-Dinitrotoluene		2.86	U	2.86	4.27
Di-n-octyl phthalate		2.28	U	2.28	4.27
1,2-Diphenylhydrazine (as Azobenzene)		3.00	U	3.00	4.27
Fluoranthene		0.436	U	0.436	0.859
Fluorene		0.372	U	0.372	0.859
Hexachlorobenzene		3.21	U	3.21	4.27
Hexachlorobutadiene		2.14	U	2.14	4.27

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 476

Lab Sample ID: 490-118160-4
Client Matrix: Soil

% Moisture: 23.9

Date Sampled: 12/05/2016 1230
Date Received: 12/12/2016 0850

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-395424	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-394683	Lab File ID:	121916-22.D
Dilution:	10			Initial Weight/Volume:	30.73 g
Analysis Date:	12/19/2016 1637			Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		1.92	U *	1.92	4.27
Hexachloroethane		2.32	U	2.32	4.27
Ideno(1,2,3-cd)pyrene		0.372	U	0.372	0.859
Isophorone		2.41	U	2.41	4.27
1-Methylnaphthalene		0.359	U	0.359	0.859
2-Methylnaphthalene		0.333	U	0.333	0.859
Naphthalene		0.372	U	0.372	0.859
2-Nitroaniline		2.65	U	2.65	4.27
3-Nitroaniline		2.95	U	2.95	8.59
4-Nitroaniline		3.05	U	3.05	8.59
Nitrobenzene		2.58	U	2.58	4.27
2-Nitrophenol		3.12	U	3.12	4.27
4-Nitrophenol		4.90	U *	4.90	8.59
N-Nitrosodimethylamine		0.256	U	0.256	4.27
N-Nitrosodi-n-propylamine		2.49	U	2.49	4.27
N-Nitrosodiphenylamine		0.680	U	0.680	4.27
Pentachlorophenol		3.41	U	3.41	8.59
Phenanthrene		0.436	U	0.436	0.859
Phenol		2.60	U	2.60	4.27
Pyrene		0.436	U	0.436	0.859
Pyridine		2.55	U	2.55	8.59
1,2,4-Trichlorobenzene		2.32	U	2.32	4.27
2,4,5-Trichlorophenol		2.80	U	2.80	4.27
2,4,6-Trichlorophenol		2.46	U	2.46	4.27

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	41		29 - 120
2-Fluorophenol (Surr)	25		10 - 120
Nitrobenzene-d5 (Surr)	36		27 - 120
Phenol-d5 (Surr)	30		10 - 120
Terphenyl-d14 (Surr)	47		13 - 120
2,4,6-Tribromophenol (Surr)	47		10 - 120

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 472

Lab Sample ID: 490-118160-5
Client Matrix: Soil

% Moisture: 22.8

Date Sampled: 12/05/2016 0915
Date Received: 12/12/2016 0850

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-395424	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-394683	Lab File ID:	121916-23.D
Dilution:	1.0			Initial Weight/Volume:	30.82 g
Analysis Date:	12/19/2016 1655			Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0404	U	0.0404	0.0845
Acenaphthylene		0.0366	U	0.0366	0.0845
Aniline		0.319	U	0.319	0.845
Anthracene		0.0366	U	0.0366	0.0845
Benzidine		0.257	U	0.257	0.420
Benzo(a)anthracene		0.0378	U	0.0378	0.0845
Benzo(a)pyrene		0.0341	U	0.0341	0.0845
Benzo(b)fluoranthene		0.0353	U	0.0353	0.0845
Benzo(g,h,i)perylene		0.0416	U	0.0416	0.0845
Benzoic acid		0.0757	U	0.0757	0.420
Benzo(k)fluoranthene		0.0341	U	0.0341	0.0845
Benzyl alcohol		0.245	U	0.245	0.420
Bis(2-chloroethoxy)methane		0.252	U	0.252	0.420
Bis(2-chloroethyl)ether		0.269	U	0.269	0.420
bis (2-chloroisopropyl) ether		0.250	U	0.250	0.420
Bis(2-ethylhexyl)phthalate		0.261	U	0.261	0.420
4-Bromophenyl phenyl ether		0.259	U	0.259	0.420
Butyl benzyl phthalate		0.271	U	0.271	0.420
Carbazole		0.261	U	0.261	0.420
4-Chloroaniline		0.286	U	0.286	0.420
4-Chloro-3-methylphenol		0.212	U	0.212	0.420
2-Chloronaphthalene		0.264	U	0.264	0.420
2-Chlorophenol		0.241	U	0.241	0.420
4-Chlorophenyl phenyl ether		0.254	U	0.254	0.420
Chrysene		0.0467	U	0.0467	0.0845
Dibenzo(a,h)anthracene		0.0404	U	0.0404	0.0845
Dibenzofuran		0.265	U	0.265	0.420
1,2-Dichlorobenzene		0.240	U	0.240	0.420
1,3-Dichlorobenzene		0.240	U	0.240	0.420
1,4-Dichlorobenzene		0.247	U	0.247	0.420
3,3'-Dichlorobenzidine		0.257	U	0.257	0.845
2,4-Dichlorophenol		0.221	U	0.221	0.420
Diethyl phthalate		0.267	U	0.267	0.420
2,4-Dimethylphenol		0.423	U	0.423	0.845
Dimethyl phthalate		0.261	U	0.261	0.420
Di-n-butyl phthalate		0.266	U	0.266	0.420
4,6-Dinitro-o-cresol		0.289	U	0.289	0.420
2,4-Dinitrophenol		0.317	U	0.317	0.420
2,4-Dinitrotoluene		0.262	U	0.262	0.420
2,6-Dinitrotoluene		0.281	U	0.281	0.420
Di-n-octyl phthalate		0.224	U	0.224	0.420
1,2-Diphenylhydrazine (as Azobenzene)		0.295	U	0.295	0.420
Fluoranthene		0.0429	U	0.0429	0.0845
Fluorene		0.0366	U	0.0366	0.0845
Hexachlorobenzene		0.315	U	0.315	0.420
Hexachlorobutadiene		0.211	U	0.211	0.420

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 472

Lab Sample ID: 490-118160-5
Client Matrix: Soil

% Moisture: 22.8

Date Sampled: 12/05/2016 0915
Date Received: 12/12/2016 0850

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-395424	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-394683	Lab File ID:	121916-23.D
Dilution:	1.0			Initial Weight/Volume:	30.82 g
Analysis Date:	12/19/2016 1655			Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.189	U *	0.189	0.420
Hexachloroethane		0.228	U	0.228	0.420
Ideno(1,2,3-cd)pyrene		0.0366	U	0.0366	0.0845
Isophorone		0.237	U	0.237	0.420
1-Methylnaphthalene		0.0353	U	0.0353	0.0845
2-Methylnaphthalene		0.0328	U	0.0328	0.0845
Naphthalene		0.0366	U	0.0366	0.0845
2-Nitroaniline		0.261	U	0.261	0.420
3-Nitroaniline		0.290	U	0.290	0.845
4-Nitroaniline		0.300	U	0.300	0.845
Nitrobenzene		0.254	U	0.254	0.420
2-Nitrophenol		0.306	U	0.306	0.420
4-Nitrophenol		0.482	U *	0.482	0.845
N-Nitrosodimethylamine		0.0252	U	0.0252	0.420
N-Nitrosodi-n-propylamine		0.245	U	0.245	0.420
N-Nitrosodiphenylamine		0.0668	U	0.0668	0.420
Pentachlorophenol		0.335	U	0.335	0.845
Phenanthrene		0.0429	U	0.0429	0.0845
Phenol		0.256	U	0.256	0.420
Pyrene		0.0429	U	0.0429	0.0845
Pyridine		0.251	U	0.251	0.845
1,2,4-Trichlorobenzene		0.228	U	0.228	0.420
2,4,5-Trichlorophenol		0.275	U	0.275	0.420
2,4,6-Trichlorophenol		0.242	U	0.242	0.420

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	67		29 - 120
2-Fluorophenol (Surr)	61		10 - 120
Nitrobenzene-d5 (Surr)	61		27 - 120
Phenol-d5 (Surr)	63		10 - 120
Terphenyl-d14 (Surr)	77		13 - 120
2,4,6-Tribromophenol (Surr)	86		10 - 120

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 473

Lab Sample ID: 490-118160-6
Client Matrix: Soil

% Moisture: 18.3

Date Sampled: 12/05/2016 0930
Date Received: 12/12/2016 0850

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-395424	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-394683	Lab File ID:	121916-24.D
Dilution:	5.0			Initial Weight/Volume:	30.65 g
Analysis Date:	12/19/2016 1713			Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.192	U	0.192	0.401
Acenaphthylene		0.174	U	0.174	0.401
Aniline		1.52	U	1.52	4.01
Anthracene		0.174	U	0.174	0.401
Benzidine		1.22	U	1.22	1.99
Benzo(a)anthracene		0.180	U	0.180	0.401
Benzo(a)pyrene		0.162	U	0.162	0.401
Benzo(b)fluoranthene		0.168	U	0.168	0.401
Benzo(g,h,i)perylene		0.198	U	0.198	0.401
Benzoic acid		0.359	U	0.359	1.99
Benzo(k)fluoranthene		0.162	U	0.162	0.401
Benzyl alcohol		1.16	U	1.16	1.99
Bis(2-chloroethoxy)methane		1.20	U	1.20	1.99
Bis(2-chloroethyl)ether		1.28	U	1.28	1.99
bis (2-chloroisopropyl) ether		1.19	U	1.19	1.99
Bis(2-ethylhexyl)phthalate		1.24	U	1.24	1.99
4-Bromophenyl phenyl ether		1.23	U	1.23	1.99
Butyl benzyl phthalate		1.29	U	1.29	1.99
Carbazole		1.24	U	1.24	1.99
4-Chloroaniline		1.36	U	1.36	1.99
4-Chloro-3-methylphenol		1.01	U	1.01	1.99
2-Chloronaphthalene		1.25	U	1.25	1.99
2-Chlorophenol		1.14	U	1.14	1.99
4-Chlorophenyl phenyl ether		1.20	U	1.20	1.99
Chrysene		0.222	U	0.222	0.401
Dibenzo(a,h)anthracene		0.192	U	0.192	0.401
Dibenzofuran		1.26	U	1.26	1.99
1,2-Dichlorobenzene		1.14	U	1.14	1.99
1,3-Dichlorobenzene		1.14	U	1.14	1.99
1,4-Dichlorobenzene		1.17	U	1.17	1.99
3,3'-Dichlorobenzidine		1.22	U	1.22	4.01
2,4-Dichlorophenol		1.05	U	1.05	1.99
Diethyl phthalate		1.27	U	1.27	1.99
2,4-Dimethylphenol		2.01	U	2.01	4.01
Dimethyl phthalate		1.24	U	1.24	1.99
Di-n-butyl phthalate		1.26	U	1.26	1.99
4,6-Dinitro-o-cresol		1.37	U	1.37	1.99
2,4-Dinitrophenol		1.50	U	1.50	1.99
2,4-Dinitrotoluene		1.25	U	1.25	1.99
2,6-Dinitrotoluene		1.34	U	1.34	1.99
Di-n-octyl phthalate		1.07	U	1.07	1.99
1,2-Diphenylhydrazine (as Azobenzene)		1.40	U	1.40	1.99
Fluoranthene		0.204	U	0.204	0.401
Fluorene		0.174	U	0.174	0.401
Hexachlorobenzene		1.50	U	1.50	1.99
Hexachlorobutadiene		1.00	U	1.00	1.99

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 473

Lab Sample ID: 490-118160-6
Client Matrix: Soil

% Moisture: 18.3

Date Sampled: 12/05/2016 0930
Date Received: 12/12/2016 0850

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-395424	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-394683	Lab File ID:	121916-24.D
Dilution:	5.0			Initial Weight/Volume:	30.65 g
Analysis Date:	12/19/2016 1713			Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.898	U *	0.898	1.99
Hexachloroethane		1.08	U	1.08	1.99
Ideno(1,2,3-cd)pyrene		0.174	U	0.174	0.401
Isophorone		1.13	U	1.13	1.99
1-Methylnaphthalene		0.168	U	0.168	0.401
2-Methylnaphthalene		0.156	U	0.156	0.401
Naphthalene		0.174	U	0.174	0.401
2-Nitroaniline		1.24	U	1.24	1.99
3-Nitroaniline		1.38	U	1.38	4.01
4-Nitroaniline		1.43	U	1.43	4.01
Nitrobenzene		1.20	U	1.20	1.99
2-Nitrophenol		1.46	U	1.46	1.99
4-Nitrophenol		2.29	U *	2.29	4.01
N-Nitrosodimethylamine		0.120	U	0.120	1.99
N-Nitrosodi-n-propylamine		1.16	U	1.16	1.99
N-Nitrosodiphenylamine		0.317	U	0.317	1.99
Pentachlorophenol		1.59	U	1.59	4.01
Phenanthrene		0.204	U	0.204	0.401
Phenol		1.22	U	1.22	1.99
Pyrene		0.204	U	0.204	0.401
Pyridine		1.19	U	1.19	4.01
1,2,4-Trichlorobenzene		1.08	U	1.08	1.99
2,4,5-Trichlorophenol		1.31	U	1.31	1.99
2,4,6-Trichlorophenol		1.15	U	1.15	1.99

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	68		29 - 120
2-Fluorophenol (Surr)	60		10 - 120
Nitrobenzene-d5 (Surr)	56		27 - 120
Phenol-d5 (Surr)	66		10 - 120
Terphenyl-d14 (Surr)	79		13 - 120
2,4,6-Tribromophenol (Surr)	86		10 - 120

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 474

Lab Sample ID: 490-118160-7
Client Matrix: Soil

% Moisture: 16.1

Date Sampled: 12/05/2016 0930
Date Received: 12/12/2016 0850

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-395424	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-394683	Lab File ID:	121916-25.D
Dilution:	1.0			Initial Weight/Volume:	30.88 g
Analysis Date:	12/19/2016 1730			Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0370	U	0.0370	0.0776
Acenaphthylene		0.0336	U	0.0336	0.0776
Aniline		0.293	U	0.293	0.776
Anthracene		0.0336	U	0.0336	0.0776
Benzidine		0.236	U	0.236	0.386
Benzo(a)anthracene		0.0347	U	0.0347	0.0776
Benzo(a)pyrene		0.0313	U	0.0313	0.0776
Benzo(b)fluoranthene		0.0324	U	0.0324	0.0776
Benzo(g,h,i)perylene		0.0630	J	0.0382	0.0776
Benzoic acid		0.0695	U	0.0695	0.386
Benzo(k)fluoranthene		0.0313	U	0.0313	0.0776
Benzyl alcohol		0.225	U	0.225	0.386
Bis(2-chloroethoxy)methane		0.232	U	0.232	0.386
Bis(2-chloroethyl)ether		0.247	U	0.247	0.386
bis (2-chloroisopropyl) ether		0.229	U	0.229	0.386
Bis(2-ethylhexyl)phthalate		0.240	U	0.240	0.386
4-Bromophenyl phenyl ether		0.237	U	0.237	0.386
Butyl benzyl phthalate		0.249	U	0.249	0.386
Carbazole		0.240	U	0.240	0.386
4-Chloroaniline		0.263	U	0.263	0.386
4-Chloro-3-methylphenol		0.194	U	0.194	0.386
2-Chloronaphthalene		0.242	U	0.242	0.386
2-Chlorophenol		0.221	U	0.221	0.386
4-Chlorophenyl phenyl ether		0.233	U	0.233	0.386
Chrysene		0.0661	J	0.0428	0.0776
Dibenzo(a,h)anthracene		0.0370	U	0.0370	0.0776
Dibenzofuran		0.243	U	0.243	0.386
1,2-Dichlorobenzene		0.220	U	0.220	0.386
1,3-Dichlorobenzene		0.220	U	0.220	0.386
1,4-Dichlorobenzene		0.227	U	0.227	0.386
3,3'-Dichlorobenzidine		0.236	U	0.236	0.776
2,4-Dichlorophenol		0.203	U	0.203	0.386
Diethyl phthalate		0.245	U	0.245	0.386
2,4-Dimethylphenol		0.388	U	0.388	0.776
Dimethyl phthalate		0.240	U	0.240	0.386
Di-n-butyl phthalate		0.244	U	0.244	0.386
4,6-Dinitro-o-cresol		0.265	U	0.265	0.386
2,4-Dinitrophenol		0.291	U	0.291	0.386
2,4-Dinitrotoluene		0.241	U	0.241	0.386
2,6-Dinitrotoluene		0.258	U	0.258	0.386
Di-n-octyl phthalate		0.206	U	0.206	0.386
1,2-Diphenylhydrazine (as Azobenzene)		0.271	U	0.271	0.386
Fluoranthene		0.0624	J	0.0394	0.0776
Fluorene		0.0336	U	0.0336	0.0776
Hexachlorobenzene		0.289	U	0.289	0.386
Hexachlorobutadiene		0.193	U	0.193	0.386

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 474

Lab Sample ID: 490-118160-7
Client Matrix: Soil

% Moisture: 16.1

Date Sampled: 12/05/2016 0930
Date Received: 12/12/2016 0850

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-395424	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-394683	Lab File ID:	121916-25.D
Dilution:	1.0			Initial Weight/Volume:	30.88 g
Analysis Date:	12/19/2016 1730			Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.174	U *	0.174	0.386
Hexachloroethane		0.210	U	0.210	0.386
Ideno(1,2,3-cd)pyrene		0.0336	U	0.0336	0.0776
Isophorone		0.218	U	0.218	0.386
1-Methylnaphthalene		0.0324	U	0.0324	0.0776
2-Methylnaphthalene		0.0301	U	0.0301	0.0776
Naphthalene		0.0336	U	0.0336	0.0776
2-Nitroaniline		0.240	U	0.240	0.386
3-Nitroaniline		0.266	U	0.266	0.776
4-Nitroaniline		0.276	U	0.276	0.776
Nitrobenzene		0.233	U	0.233	0.386
2-Nitrophenol		0.281	U	0.281	0.386
4-Nitrophenol		0.442	U *	0.442	0.776
N-Nitrosodimethylamine		0.0232	U	0.0232	0.386
N-Nitrosodi-n-propylamine		0.225	U	0.225	0.386
N-Nitrosodiphenylamine		0.0614	U	0.0614	0.386
Pentachlorophenol		0.308	U	0.308	0.776
Phenanthrene		0.0581	J	0.0394	0.0776
Phenol		0.235	U	0.235	0.386
Pyrene		0.0938		0.0394	0.0776
Pyridine		0.230	U	0.230	0.776
1,2,4-Trichlorobenzene		0.210	U	0.210	0.386
2,4,5-Trichlorophenol		0.252	U	0.252	0.386
2,4,6-Trichlorophenol		0.222	U	0.222	0.386

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	66		29 - 120
2-Fluorophenol (Surr)	49		10 - 120
Nitrobenzene-d5 (Surr)	59		27 - 120
Phenol-d5 (Surr)	53		10 - 120
Terphenyl-d14 (Surr)	72		13 - 120
2,4,6-Tribromophenol (Surr)	86		10 - 120

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 469

Lab Sample ID: 490-118160-8
Client Matrix: Soil

% Moisture: 18.1

Date Sampled: 12/05/2016 0900
Date Received: 12/12/2016 0850

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-395424	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-394683	Lab File ID:	121916-26.D
Dilution:	1.0			Initial Weight/Volume:	30.91 g
Analysis Date:	12/19/2016 1748			Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0379	U	0.0379	0.0794
Acenaphthylene		0.0344	U	0.0344	0.0794
Aniline		0.300	U	0.300	0.794
Anthracene		0.0344	U	0.0344	0.0794
Benzidine		0.242	U	0.242	0.395
Benzo(a)anthracene		0.0355	U	0.0355	0.0794
Benzo(a)pyrene		0.0320	U	0.0320	0.0794
Benzo(b)fluoranthene		0.0332	U	0.0332	0.0794
Benzo(g,h,i)perylene		0.0391	U	0.0391	0.0794
Benzoic acid		0.0711	U	0.0711	0.395
Benzo(k)fluoranthene		0.0320	U	0.0320	0.0794
Benzyl alcohol		0.230	U	0.230	0.395
Bis(2-chloroethoxy)methane		0.237	U	0.237	0.395
Bis(2-chloroethyl)ether		0.252	U	0.252	0.395
bis (2-chloroisopropyl) ether		0.235	U	0.235	0.395
Bis(2-ethylhexyl)phthalate		0.245	U	0.245	0.395
4-Bromophenyl phenyl ether		0.243	U	0.243	0.395
Butyl benzyl phthalate		0.255	U	0.255	0.395
Carbazole		0.245	U	0.245	0.395
4-Chloroaniline		0.269	U	0.269	0.395
4-Chloro-3-methylphenol		0.199	U	0.199	0.395
2-Chloronaphthalene		0.248	U	0.248	0.395
2-Chlorophenol		0.226	U	0.226	0.395
4-Chlorophenyl phenyl ether		0.238	U	0.238	0.395
Chrysene		0.0438	U	0.0438	0.0794
Dibenzo(a,h)anthracene		0.0379	U	0.0379	0.0794
Dibenzofuran		0.249	U	0.249	0.395
1,2-Dichlorobenzene		0.225	U	0.225	0.395
1,3-Dichlorobenzene		0.225	U	0.225	0.395
1,4-Dichlorobenzene		0.232	U	0.232	0.395
3,3'-Dichlorobenzidine		0.242	U	0.242	0.794
2,4-Dichlorophenol		0.207	U	0.207	0.395
Diethyl phthalate		0.251	U	0.251	0.395
2,4-Dimethylphenol		0.397	U	0.397	0.794
Dimethyl phthalate		0.245	U	0.245	0.395
Di-n-butyl phthalate		0.250	U	0.250	0.395
4,6-Dinitro-o-cresol		0.271	U	0.271	0.395
2,4-Dinitrophenol		0.297	U	0.297	0.395
2,4-Dinitrotoluene		0.246	U	0.246	0.395
2,6-Dinitrotoluene		0.264	U	0.264	0.395
Di-n-octyl phthalate		0.211	U	0.211	0.395
1,2-Diphenylhydrazine (as Azobenzene)		0.277	U	0.277	0.395
Fluoranthene		0.0403	U	0.0403	0.0794
Fluorene		0.0344	U	0.0344	0.0794
Hexachlorobenzene		0.296	U	0.296	0.395
Hexachlorobutadiene		0.198	U	0.198	0.395

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 469

Lab Sample ID: 490-118160-8
Client Matrix: Soil

% Moisture: 18.1

Date Sampled: 12/05/2016 0900
Date Received: 12/12/2016 0850

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-395424	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-394683	Lab File ID:	121916-26.D
Dilution:	1.0			Initial Weight/Volume:	30.91 g
Analysis Date:	12/19/2016 1748			Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.178	U *	0.178	0.395
Hexachloroethane		0.214	U	0.214	0.395
Ideno(1,2,3-cd)pyrene		0.0344	U	0.0344	0.0794
Isophorone		0.223	U	0.223	0.395
1-Methylnaphthalene		0.0332	U	0.0332	0.0794
2-Methylnaphthalene		0.0308	U	0.0308	0.0794
Naphthalene		0.0344	U	0.0344	0.0794
2-Nitroaniline		0.245	U	0.245	0.395
3-Nitroaniline		0.273	U	0.273	0.794
4-Nitroaniline		0.282	U	0.282	0.794
Nitrobenzene		0.238	U	0.238	0.395
2-Nitrophenol		0.288	U	0.288	0.395
4-Nitrophenol		0.453	U *	0.453	0.794
N-Nitrosodimethylamine		0.0237	U	0.0237	0.395
N-Nitrosodi-n-propylamine		0.230	U	0.230	0.395
N-Nitrosodiphenylamine		0.0628	U	0.0628	0.395
Pentachlorophenol		0.315	U	0.315	0.794
Phenanthrene		0.0403	U	0.0403	0.0794
Phenol		0.241	U	0.241	0.395
Pyrene		0.0403	U	0.0403	0.0794
Pyridine		0.236	U	0.236	0.794
1,2,4-Trichlorobenzene		0.214	U	0.214	0.395
2,4,5-Trichlorophenol		0.258	U	0.258	0.395
2,4,6-Trichlorophenol		0.227	U	0.227	0.395

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	58		29 - 120
2-Fluorophenol (Surr)	63		10 - 120
Nitrobenzene-d5 (Surr)	67		27 - 120
Phenol-d5 (Surr)	68		10 - 120
Terphenyl-d14 (Surr)	81		13 - 120
2,4,6-Tribromophenol (Surr)	96		10 - 120

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 470

Lab Sample ID: 490-118160-9
Client Matrix: Soil

% Moisture: 20.3

Date Sampled: 12/05/2016 0900
Date Received: 12/12/2016 0850

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-395424	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-394683	Lab File ID:	121916-27.D
Dilution:	1.0			Initial Weight/Volume:	30.01 g
Analysis Date:	12/19/2016 1806			Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0402	U	0.0402	0.0841
Acenaphthylene		0.0364	U	0.0364	0.0841
Aniline		0.317	U	0.317	0.841
Anthracene		0.0364	U	0.0364	0.0841
Benzidine		0.256	U	0.256	0.418
Benzo(a)anthracene		0.0376	U	0.0376	0.0841
Benzo(a)pyrene		0.0339	U	0.0339	0.0841
Benzo(b)fluoranthene		0.0351	U	0.0351	0.0841
Benzo(g,h,i)perylene		0.0414	U	0.0414	0.0841
Benzoic acid		0.0753	U	0.0753	0.418
Benzo(k)fluoranthene		0.0339	U	0.0339	0.0841
Benzyl alcohol		0.243	U	0.243	0.418
Bis(2-chloroethoxy)methane		0.251	U	0.251	0.418
Bis(2-chloroethyl)ether		0.267	U	0.267	0.418
bis (2-chloroisopropyl) ether		0.248	U	0.248	0.418
Bis(2-ethylhexyl)phthalate		0.260	U	0.260	0.418
4-Bromophenyl phenyl ether		0.257	U	0.257	0.418
Butyl benzyl phthalate		0.270	U	0.270	0.418
Carbazole		0.260	U	0.260	0.418
4-Chloroaniline		0.285	U	0.285	0.418
4-Chloro-3-methylphenol		0.211	U	0.211	0.418
2-Chloronaphthalene		0.262	U	0.262	0.418
2-Chlorophenol		0.240	U	0.240	0.418
4-Chlorophenyl phenyl ether		0.252	U	0.252	0.418
Chrysene		0.0464	U	0.0464	0.0841
Dibenzo(a,h)anthracene		0.0402	U	0.0402	0.0841
Dibenzofuran		0.264	U	0.264	0.418
1,2-Dichlorobenzene		0.238	U	0.238	0.418
1,3-Dichlorobenzene		0.238	U	0.238	0.418
1,4-Dichlorobenzene		0.246	U	0.246	0.418
3,3'-Dichlorobenzidine		0.256	U	0.256	0.841
2,4-Dichlorophenol		0.220	U	0.220	0.418
Diethyl phthalate		0.266	U	0.266	0.418
2,4-Dimethylphenol		0.420	U	0.420	0.841
Dimethyl phthalate		0.260	U	0.260	0.418
Di-n-butyl phthalate		0.265	U	0.265	0.418
4,6-Dinitro-o-cresol		0.287	U	0.287	0.418
2,4-Dinitrophenol		0.315	U	0.315	0.418
2,4-Dinitrotoluene		0.261	U	0.261	0.418
2,6-Dinitrotoluene		0.280	U	0.280	0.418
Di-n-octyl phthalate		0.223	U	0.223	0.418
1,2-Diphenylhydrazine (as Azobenzene)		0.294	U	0.294	0.418
Fluoranthene		0.0427	U	0.0427	0.0841
Fluorene		0.0364	U	0.0364	0.0841
Hexachlorobenzene		0.314	U	0.314	0.418
Hexachlorobutadiene		0.210	U	0.210	0.418

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 470

Lab Sample ID: 490-118160-9
Client Matrix: Soil

% Moisture: 20.3

Date Sampled: 12/05/2016 0900
Date Received: 12/12/2016 0850

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-395424	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-394683	Lab File ID:	121916-27.D
Dilution:	1.0			Initial Weight/Volume:	30.01 g
Analysis Date:	12/19/2016 1806			Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.188	U *	0.188	0.418
Hexachloroethane		0.227	U	0.227	0.418
Ideno(1,2,3-cd)pyrene		0.0364	U	0.0364	0.0841
Isophorone		0.236	U	0.236	0.418
1-Methylnaphthalene		0.0351	U	0.0351	0.0841
2-Methylnaphthalene		0.0326	U	0.0326	0.0841
Naphthalene		0.0364	U	0.0364	0.0841
2-Nitroaniline		0.260	U	0.260	0.418
3-Nitroaniline		0.289	U	0.289	0.841
4-Nitroaniline		0.299	U	0.299	0.841
Nitrobenzene		0.252	U	0.252	0.418
2-Nitrophenol		0.305	U	0.305	0.418
4-Nitrophenol		0.479	U *	0.479	0.841
N-Nitrosodimethylamine		0.0251	U	0.0251	0.418
N-Nitrosodi-n-propylamine		0.243	U	0.243	0.418
N-Nitrosodiphenylamine		0.0665	U	0.0665	0.418
Pentachlorophenol		0.334	U	0.334	0.841
Phenanthrene		0.0427	U	0.0427	0.0841
Phenol		0.255	U	0.255	0.418
Pyrene		0.0427	U	0.0427	0.0841
Pyridine		0.250	U	0.250	0.841
1,2,4-Trichlorobenzene		0.227	U	0.227	0.418
2,4,5-Trichlorophenol		0.274	U	0.274	0.418
2,4,6-Trichlorophenol		0.241	U	0.241	0.418

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	67		29 - 120
2-Fluorophenol (Surr)	47		10 - 120
Nitrobenzene-d5 (Surr)	56		27 - 120
Phenol-d5 (Surr)	58		10 - 120
Terphenyl-d14 (Surr)	77		13 - 120
2,4,6-Tribromophenol (Surr)	89		10 - 120

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 471

Lab Sample ID: 490-118160-10
Client Matrix: Soil

% Moisture: 21.0

Date Sampled: 12/05/2016 0915
Date Received: 12/12/2016 0850

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-395424	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-394683	Lab File ID:	121916-28.D
Dilution:	1.0			Initial Weight/Volume:	30.52 g
Analysis Date:	12/19/2016 1824			Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Acenaphthene		0.0398	U	0.0398	0.0833
Acenaphthylene		0.0361	U	0.0361	0.0833
Aniline		0.315	U	0.315	0.833
Anthracene		0.0361	U	0.0361	0.0833
Benzidine		0.254	U	0.254	0.414
Benzo(a)anthracene		0.0373	U	0.0373	0.0833
Benzo(a)pyrene		0.0336	U	0.0336	0.0833
Benzo(b)fluoranthene		0.0348	U	0.0348	0.0833
Benzo(g,h,i)perylene		0.0410	U	0.0410	0.0833
Benzoic acid		0.0746	U	0.0746	0.414
Benzo(k)fluoranthene		0.0336	U	0.0336	0.0833
Benzyl alcohol		0.241	U	0.241	0.414
Bis(2-chloroethoxy)methane		0.249	U	0.249	0.414
Bis(2-chloroethyl)ether		0.265	U	0.265	0.414
bis (2-chloroisopropyl) ether		0.246	U	0.246	0.414
Bis(2-ethylhexyl)phthalate		0.370	J	0.257	0.414
4-Bromophenyl phenyl ether		0.255	U	0.255	0.414
Butyl benzyl phthalate		0.267	U	0.267	0.414
Carbazole		0.257	U	0.257	0.414
4-Chloroaniline		0.282	U	0.282	0.414
4-Chloro-3-methylphenol		0.209	U	0.209	0.414
2-Chloronaphthalene		0.260	U	0.260	0.414
2-Chlorophenol		0.238	U	0.238	0.414
4-Chlorophenyl phenyl ether		0.250	U	0.250	0.414
Chrysene		0.0460	U	0.0460	0.0833
Dibenzo(a,h)anthracene		0.0398	U	0.0398	0.0833
Dibenzofuran		0.261	U	0.261	0.414
1,2-Dichlorobenzene		0.236	U	0.236	0.414
1,3-Dichlorobenzene		0.236	U	0.236	0.414
1,4-Dichlorobenzene		0.244	U	0.244	0.414
3,3'-Dichlorobenzidine		0.254	U	0.254	0.833
2,4-Dichlorophenol		0.218	U	0.218	0.414
Diethyl phthalate		0.264	U	0.264	0.414
2,4-Dimethylphenol		0.417	U	0.417	0.833
Dimethyl phthalate		0.257	U	0.257	0.414
Di-n-butyl phthalate		0.262	U	0.262	0.414
4,6-Dinitro-o-cresol		0.285	U	0.285	0.414
2,4-Dinitrophenol		0.312	U	0.312	0.414
2,4-Dinitrotoluene		0.259	U	0.259	0.414
2,6-Dinitrotoluene		0.277	U	0.277	0.414
Di-n-octyl phthalate		0.221	U	0.221	0.414
1,2-Diphenylhydrazine (as Azobenzene)		0.291	U	0.291	0.414
Fluoranthene		0.0423	U	0.0423	0.0833
Fluorene		0.0361	U	0.0361	0.0833
Hexachlorobenzene		0.311	U	0.311	0.414
Hexachlorobutadiene		0.208	U	0.208	0.414

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 471

Lab Sample ID: 490-118160-10
Client Matrix: Soil

% Moisture: 21.0

Date Sampled: 12/05/2016 0915
Date Received: 12/12/2016 0850

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	490-395424	Instrument ID:	HP26
Prep Method:	3550C	Prep Batch:	490-394683	Lab File ID:	121916-28.D
Dilution:	1.0			Initial Weight/Volume:	30.52 g
Analysis Date:	12/19/2016 1824			Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hexachlorocyclopentadiene		0.187	U *	0.187	0.414
Hexachloroethane		0.225	U	0.225	0.414
Ideno(1,2,3-cd)pyrene		0.0361	U	0.0361	0.0833
Isophorone		0.234	U	0.234	0.414
1-Methylnaphthalene		0.0348	U	0.0348	0.0833
2-Methylnaphthalene		0.0323	U	0.0323	0.0833
Naphthalene		0.0361	U	0.0361	0.0833
2-Nitroaniline		0.257	U	0.257	0.414
3-Nitroaniline		0.286	U	0.286	0.833
4-Nitroaniline		0.296	U	0.296	0.833
Nitrobenzene		0.250	U	0.250	0.414
2-Nitrophenol		0.302	U	0.302	0.414
4-Nitrophenol		0.475	U *	0.475	0.833
N-Nitrosodimethylamine		0.0249	U	0.0249	0.414
N-Nitrosodi-n-propylamine		0.241	U	0.241	0.414
N-Nitrosodiphenylamine		0.0659	U	0.0659	0.414
Pentachlorophenol		0.331	U	0.331	0.833
Phenanthrene		0.0423	U	0.0423	0.0833
Phenol		0.252	U	0.252	0.414
Pyrene		0.0423	U	0.0423	0.0833
Pyridine		0.247	U	0.247	0.833
1,2,4-Trichlorobenzene		0.225	U	0.225	0.414
2,4,5-Trichlorophenol		0.271	U	0.271	0.414
2,4,6-Trichlorophenol		0.239	U	0.239	0.414

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	75		29 - 120
2-Fluorophenol (Surr)	54		10 - 120
Nitrobenzene-d5 (Surr)	65		27 - 120
Phenol-d5 (Surr)	68		10 - 120
Terphenyl-d14 (Surr)	85		13 - 120
2,4,6-Tribromophenol (Surr)	101		10 - 120

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 478

Lab Sample ID: 490-118160-1
Client Matrix: Soil

% Moisture: 21.1

Date Sampled: 12/06/2016 0815
Date Received: 12/12/2016 0850

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-395738	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-395063	Lab File ID:	TALS_121916-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.522 g
Analysis Date:	12/19/2016 1529			Final Weight/Volume:	100 mL
Prep Date:	12/16/2016 1458				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		11700		12.1	24.3
Antimony		1.21	U	1.21	12.1
Arsenic		10.1		1.46	2.43
Barium		54.8		1.21	2.43
Beryllium		0.364	J	0.243	1.21
Cadmium		0.801	J	0.121	1.21
Calcium		1230		121	243
Chromium		12.4		1.09	1.21
Cobalt		9.00		1.21	2.43
Copper		19.6		1.33	2.43
Iron		18600		24.3	48.5
Lead		25.6		0.607	1.21
Magnesium		2950		121	243
Manganese		285		1.21	3.64
Nickel		18.8		0.728	2.43
Potassium		639		121	243
Selenium		1.33	U	1.33	2.43
Silver		0.485	U	0.485	1.21
Sodium		158	U	158	243
Thallium		0.728	U	0.728	2.43
Vanadium		17.7		2.43	12.1
Zinc		69.9		6.07	12.1

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-396569	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-396419	Lab File ID:	122216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.600 g
Analysis Date:	12/22/2016 1416			Final Weight/Volume:	100 mL
Prep Date:	12/22/2016 0944				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0380	U	0.0380	0.127

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 477

Lab Sample ID: 490-118160-2
Client Matrix: Soil

% Moisture: 33.3

Date Sampled: 12/05/2016 1230
Date Received: 12/12/2016 0850

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-395738	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-395063	Lab File ID:	TALS_121916-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.522 g
Analysis Date:	12/19/2016 1554			Final Weight/Volume:	100 mL
Prep Date:	12/16/2016 1458				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		13500		14.4	28.7
Antimony		1.44	U	1.44	14.4
Arsenic		11.1		1.72	2.87
Barium		63.6		1.44	2.87
Beryllium		0.488	J	0.287	1.44
Cadmium		1.21	J	0.144	1.44
Calcium		4690		144	287
Chromium		29.6		1.29	1.44
Cobalt		4.13		1.44	2.87
Copper		41.0		1.58	2.87
Iron		13000		28.7	57.4
Lead		125		0.718	1.44
Magnesium		10600		144	287
Manganese		268		1.44	4.31
Nickel		13.7		0.861	2.87
Potassium		1150		144	287
Selenium		1.58	U	1.58	2.87
Silver		0.574	U	0.574	1.44
Sodium		187	U	187	287
Thallium		0.861	U	0.861	2.87
Vanadium		27.7		2.87	14.4
Zinc		70.7		7.18	14.4

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-396569	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-396419	Lab File ID:	122216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.612 g
Analysis Date:	12/22/2016 1418			Final Weight/Volume:	100 mL
Prep Date:	12/22/2016 0944				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.130	J	0.0441	0.147

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 475

Lab Sample ID: 490-118160-3
Client Matrix: Soil

% Moisture: 15.3

Date Sampled: 12/05/2016 0945
Date Received: 12/12/2016 0850

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-395738	Instrument ID:	ICP4
Prep Method:	3051A	Prep Batch:	490-395063	Lab File ID:	TALS_121916-4B.asc
Dilution:	1.0			Initial Weight/Volume:	0.499 g
Analysis Date:	12/19/2016 1559			Final Weight/Volume:	100 mL
Prep Date:	12/16/2016 1458				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		11500		11.8	23.7
Antimony		1.18	U	1.18	11.8
Arsenic		12.6		1.42	2.37
Barium		79.2		1.18	2.37
Beryllium		0.568	J	0.237	1.18
Cadmium		1.02	J	0.118	1.18
Calcium		2770		118	237
Chromium		14.0		1.06	1.18
Cobalt		11.4		1.18	2.37
Copper		26.8		1.30	2.37
Iron		29700		23.7	47.3
Lead		41.2		0.591	1.18
Magnesium		4810		118	237
Manganese		651		1.18	3.55
Nickel		26.2		0.710	2.37
Potassium		1350		118	237
Selenium		1.30	U	1.30	2.37
Silver		0.473	U	0.473	1.18
Sodium		154	U	154	237
Thallium		0.710	U	0.710	2.37
Vanadium		16.7		2.37	11.8
Zinc		65.0		5.91	11.8

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-396569	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-396419	Lab File ID:	122216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.595 g
Analysis Date:	12/22/2016 1421			Final Weight/Volume:	100 mL
Prep Date:	12/22/2016 0944				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0357	U	0.0357	0.119

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 476

Lab Sample ID: 490-118160-4
Client Matrix: Soil

% Moisture: 23.9

Date Sampled: 12/05/2016 1230
Date Received: 12/12/2016 0850

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-396401	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-395548	Lab File ID:	TALS_122116-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.498 g
Analysis Date:	12/21/2016 2228			Final Weight/Volume:	100 mL
Prep Date:	12/19/2016 1351				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		13500		13.2	26.4
Antimony		2.22	J	1.32	13.2
Barium		131		1.32	2.64
Beryllium		0.976	J	0.264	1.32
Cadmium		2.35		0.132	1.32
Calcium		3490		132	264
Chromium		24.7		1.19	1.32
Cobalt		7.99		1.32	2.64
Copper		41.3		1.45	2.64
Iron		25500		26.4	52.8
Magnesium		6140		132	264
Manganese		156		1.32	3.96
Nickel		29.6		0.791	2.64
Potassium		1090		132	264
Selenium		1.45	U	1.45	2.64
Silver		0.528	U	0.528	1.32
Sodium		171	U	171	264
Thallium		0.791	U	0.791	2.64
Vanadium		30.1		2.64	13.2
Zinc		106		6.59	13.2

Analysis Method:	6010C	Analysis Batch:	490-396697	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-395548	Lab File ID:	TALS_122216-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.498 g
Analysis Date:	12/22/2016 1553			Final Weight/Volume:	100 mL
Prep Date:	12/19/2016 1351				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		19.4		1.58	2.64
Lead		121		0.659	1.32

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-396569	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-396419	Lab File ID:	122216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.620 g
Analysis Date:	12/22/2016 1423			Final Weight/Volume:	100 mL
Prep Date:	12/22/2016 0944				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0515	J	0.0381	0.127

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 472

Lab Sample ID: 490-118160-5
Client Matrix: Soil

% Moisture: 22.8

Date Sampled: 12/05/2016 0915
Date Received: 12/12/2016 0850

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-396401	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-395548	Lab File ID:	TALS_122116-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.514 g
Analysis Date:	12/21/2016 2233			Final Weight/Volume:	100 mL
Prep Date:	12/19/2016 1351				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		11900		12.6	25.2
Antimony		1.26	U	1.26	12.6
Barium		60.5		1.26	2.52
Beryllium		0.479	J	0.252	1.26
Cadmium		0.807	J	0.126	1.26
Calcium		1260		126	252
Chromium		14.2		1.13	1.26
Cobalt		7.16		1.26	2.52
Copper		16.9		1.39	2.52
Iron		21300		25.2	50.4
Magnesium		3100		126	252
Manganese		230		1.26	3.78
Nickel		18.0		0.756	2.52
Potassium		848		126	252
Selenium		1.39	U	1.39	2.52
Silver		0.504	U	0.504	1.26
Sodium		164	U	164	252
Thallium		0.756	U	0.756	2.52
Vanadium		17.7		2.52	12.6
Zinc		63.8		6.30	12.6

Analysis Method:	6010C	Analysis Batch:	490-396697	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-395548	Lab File ID:	TALS_122216-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.514 g
Analysis Date:	12/22/2016 1558			Final Weight/Volume:	100 mL
Prep Date:	12/19/2016 1351				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		8.65		1.51	2.52
Lead		33.0		0.630	1.26

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-396569	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-396419	Lab File ID:	122216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.608 g
Analysis Date:	12/22/2016 1426			Final Weight/Volume:	100 mL
Prep Date:	12/22/2016 0944				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0384	U	0.0384	0.128

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 473

Lab Sample ID: 490-118160-6
Client Matrix: Soil

% Moisture: 18.3

Date Sampled: 12/05/2016 0930
Date Received: 12/12/2016 0850

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-396401	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-395548	Lab File ID:	TALS_122116-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.523 g
Analysis Date:	12/21/2016 2238			Final Weight/Volume:	100 mL
Prep Date:	12/19/2016 1351				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		14400		11.7	23.4
Antimony		1.40	J	1.17	11.7
Barium		60.5		1.17	2.34
Beryllium		0.585	J	0.234	1.17
Cadmium		0.842	J	0.117	1.17
Calcium		1000		117	234
Chromium		15.9		1.05	1.17
Cobalt		7.79		1.17	2.34
Copper		26.5		1.29	2.34
Iron		23800		23.4	46.8
Magnesium		3210		117	234
Manganese		254		1.17	3.51
Nickel		18.3		0.702	2.34
Potassium		994		117	234
Selenium		1.29	U	1.29	2.34
Silver		0.468	U	0.468	1.17
Sodium		152	U	152	234
Thallium		0.702	U	0.702	2.34
Vanadium		21.1		2.34	11.7
Zinc		65.0		5.85	11.7

Analysis Method:	6010C	Analysis Batch:	490-396697	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-395548	Lab File ID:	TALS_122216-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.523 g
Analysis Date:	12/22/2016 1603			Final Weight/Volume:	100 mL
Prep Date:	12/19/2016 1351				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		10.3		1.40	2.34
Lead		28.3		0.585	1.17

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-396569	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-396419	Lab File ID:	122216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.625 g
Analysis Date:	12/22/2016 1428			Final Weight/Volume:	100 mL
Prep Date:	12/22/2016 0944				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0352	U	0.0352	0.117

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 474

Lab Sample ID: 490-118160-7
Client Matrix: Soil

% Moisture: 16.1

Date Sampled: 12/05/2016 0930
Date Received: 12/12/2016 0850

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-396401	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-395548	Lab File ID:	TALS_122116-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.508 g
Analysis Date:	12/21/2016 2255			Final Weight/Volume:	100 mL
Prep Date:	12/19/2016 1351				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		2530		11.7	23.5
Antimony		3.17	J	1.17	11.7
Barium		50.9		1.17	2.35
Beryllium		0.235	U	0.235	1.17
Cadmium		1.03	J	0.117	1.17
Calcium		474		117	235
Chromium		4.57		1.06	1.17
Cobalt		3.14		1.17	2.35
Copper		30.2		1.29	2.35
Iron		26800		23.5	46.9
Magnesium		552		117	235
Manganese		127		1.17	3.52
Nickel		9.52		0.704	2.35
Potassium		342		117	235
Selenium		1.29	U	1.29	2.35
Silver		0.469	U	0.469	1.17
Sodium		152	U	152	235
Thallium		0.704	U	0.704	2.35
Vanadium		4.01	J	2.35	11.7
Zinc		14.4		5.86	11.7

Analysis Method:	6010C	Analysis Batch:	490-396697	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-395548	Lab File ID:	TALS_122216-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.508 g
Analysis Date:	12/22/2016 1608			Final Weight/Volume:	100 mL
Prep Date:	12/19/2016 1351				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		19.6		1.41	2.35
Lead		33.2		0.586	1.17

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-396569	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-396419	Lab File ID:	122216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.606 g
Analysis Date:	12/22/2016 1431			Final Weight/Volume:	100 mL
Prep Date:	12/22/2016 0944				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0366	J	0.0354	0.118

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 469

Lab Sample ID: 490-118160-8
Client Matrix: Soil

% Moisture: 18.1

Date Sampled: 12/05/2016 0900
Date Received: 12/12/2016 0850

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-396401	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-395548	Lab File ID:	TALS_122116-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.521 g
Analysis Date:	12/21/2016 2300			Final Weight/Volume:	100 mL
Prep Date:	12/19/2016 1351				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10700		11.7	23.4
Antimony		1.17	J	1.17	11.7
Barium		57.8		1.17	2.34
Beryllium		0.539	J	0.234	1.17
Cadmium		1.03	J	0.117	1.17
Calcium		1340		117	234
Chromium		13.1		1.05	1.17
Cobalt		9.72		1.17	2.34
Copper		235		1.29	2.34
Iron		23800		23.4	46.9
Magnesium		3210		117	234
Manganese		367		1.17	3.51
Nickel		19.3		0.703	2.34
Potassium		987		117	234
Selenium		1.29	U	1.29	2.34
Silver		0.469	U	0.469	1.17
Sodium		152	U	152	234
Thallium		0.703	U	0.703	2.34
Vanadium		15.1		2.34	11.7
Zinc		77.4		5.86	11.7

Analysis Method:	6010C	Analysis Batch:	490-396697	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-395548	Lab File ID:	TALS_122216-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.521 g
Analysis Date:	12/22/2016 1614			Final Weight/Volume:	100 mL
Prep Date:	12/19/2016 1351				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		12.7		1.41	2.34
Lead		44.3		0.586	1.17

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-396569	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-396419	Lab File ID:	122216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.603 g
Analysis Date:	12/22/2016 1433			Final Weight/Volume:	100 mL
Prep Date:	12/22/2016 0944				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0364	U	0.0364	0.121

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 470

Lab Sample ID: 490-118160-9
Client Matrix: Soil

% Moisture: 20.3

Date Sampled: 12/05/2016 0900
Date Received: 12/12/2016 0850

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-396401	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-395548	Lab File ID:	TALS_122116-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.524 g
Analysis Date:	12/21/2016 2305			Final Weight/Volume:	100 mL
Prep Date:	12/19/2016 1351				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		11400		12.0	24.0
Antimony		1.20	U	1.20	12.0
Barium		56.3		1.20	2.40
Beryllium		0.407	J	0.240	1.20
Cadmium		1.01	J	0.120	1.20
Calcium		2440		120	240
Chromium		12.0		1.08	1.20
Cobalt		6.56		1.20	2.40
Copper		18.9		1.32	2.40
Iron		20100		24.0	47.9
Magnesium		3030		120	240
Manganese		257		1.20	3.59
Nickel		13.8		0.719	2.40
Potassium		695		120	240
Selenium		1.32	U	1.32	2.40
Silver		0.479	U	0.479	1.20
Sodium		156	U	156	240
Thallium		0.719	U	0.719	2.40
Vanadium		16.6		2.40	12.0
Zinc		135		5.99	12.0

Analysis Method:	6010C	Analysis Batch:	490-396697	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-395548	Lab File ID:	TALS_122216-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.524 g
Analysis Date:	12/22/2016 1619			Final Weight/Volume:	100 mL
Prep Date:	12/19/2016 1351				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		10.1		1.44	2.40
Lead		36.1		0.599	1.20

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-396569	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-396257	Lab File ID:	122216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.624 g
Analysis Date:	12/22/2016 1131			Final Weight/Volume:	100 mL
Prep Date:	12/21/2016 1423				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0362	U	0.0362	0.121

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Client Sample ID: END 471

Lab Sample ID: 490-118160-10
Client Matrix: Soil

% Moisture: 21.0

Date Sampled: 12/05/2016 0915
Date Received: 12/12/2016 0850

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-396401	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-395548	Lab File ID:	TALS_122116-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.503 g
Analysis Date:	12/21/2016 2310			Final Weight/Volume:	100 mL
Prep Date:	12/19/2016 1351				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10300		12.6	25.2
Antimony		1.26	U	1.26	12.6
Barium		84.2		1.26	2.52
Beryllium		0.553	J	0.252	1.26
Cadmium		0.931	J	0.126	1.26
Calcium		3400		126	252
Chromium		12.2		1.13	1.26
Cobalt		8.68		1.26	2.52
Copper		32.8		1.38	2.52
Iron		24200		25.2	50.3
Magnesium		3110		126	252
Manganese		658		1.26	3.77
Nickel		18.0		0.755	2.52
Potassium		1160		126	252
Selenium		1.38	U	1.38	2.52
Silver		0.503	U	0.503	1.26
Sodium		163	U	163	252
Thallium		0.755	U	0.755	2.52
Vanadium		14.4		2.52	12.6
Zinc		61.4		6.29	12.6

Analysis Method:	6010C	Analysis Batch:	490-396697	Instrument ID:	ICP6
Prep Method:	3051A	Prep Batch:	490-395548	Lab File ID:	TALS_122216-6B.asc
Dilution:	1.0			Initial Weight/Volume:	0.503 g
Analysis Date:	12/22/2016 1624			Final Weight/Volume:	100 mL
Prep Date:	12/19/2016 1351				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		15.0		1.51	2.52
Lead		49.2		0.629	1.26

7471B Mercury (CVAA)

Analysis Method:	7471B	Analysis Batch:	490-396569	Instrument ID:	LE5
Prep Method:	7471B	Prep Batch:	490-396257	Lab File ID:	122216-5aLCS.CSV
Dilution:	1.0			Initial Weight/Volume:	0.595 g
Analysis Date:	12/22/2016 1133			Final Weight/Volume:	100 mL
Prep Date:	12/21/2016 1423				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0383	U	0.0383	0.128

General Chemistry

Client Sample ID: **END 478**

Lab Sample ID: 490-118160-1
Client Matrix: Soil

Date Sampled: 12/06/2016 0815
Date Received: 12/12/2016 0850

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	78.9		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-394165 Analysis Date: 12/14/2016 1004 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 477**

Lab Sample ID: 490-118160-2
Client Matrix: Soil

Date Sampled: 12/05/2016 1230
Date Received: 12/12/2016 0850

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	66.7		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-394165 Analysis Date: 12/14/2016 1004 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 475**

Lab Sample ID: 490-118160-3
Client Matrix: Soil

Date Sampled: 12/05/2016 0945
Date Received: 12/12/2016 0850

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	84.7		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-394165 Analysis Date: 12/14/2016 1004 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 476**

Lab Sample ID: 490-118160-4
Client Matrix: Soil

Date Sampled: 12/05/2016 1230
Date Received: 12/12/2016 0850

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	76.1		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-394165 Analysis Date: 12/14/2016 1004 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 472**

Lab Sample ID: 490-118160-5
Client Matrix: Soil

Date Sampled: 12/05/2016 0915
Date Received: 12/12/2016 0850

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	77.2		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-394165 Analysis Date: 12/14/2016 1004 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 473**

Lab Sample ID: 490-118160-6
Client Matrix: Soil

Date Sampled: 12/05/2016 0930
Date Received: 12/12/2016 0850

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	81.7		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-394165 Analysis Date: 12/14/2016 1004 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 474**

Lab Sample ID: 490-118160-7
Client Matrix: Soil

Date Sampled: 12/05/2016 0930
Date Received: 12/12/2016 0850

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	83.9		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-394165 Analysis Date: 12/14/2016 1004 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 469**

Lab Sample ID: 490-118160-8
Client Matrix: Soil

Date Sampled: 12/05/2016 0900
Date Received: 12/12/2016 0850

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	81.9		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-394165 Analysis Date: 12/14/2016 1004 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 470**

Lab Sample ID: 490-118160-9
Client Matrix: Soil

Date Sampled: 12/05/2016 0900
Date Received: 12/12/2016 0850

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	79.7		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-394165 Analysis Date: 12/14/2016 1004 DryWt Corrected: N

General Chemistry

Client Sample ID: **END 471**

Lab Sample ID: 490-118160-10
Client Matrix: Soil

Date Sampled: 12/05/2016 0915
Date Received: 12/12/2016 0850

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	79.0		%	0.1	0.1	1.0	Moisture

Analysis Batch: 490-394165 Analysis Date: 12/14/2016 1025 DryWt Corrected: N

DATA REPORTING QUALIFIERS

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Analyzed for but not detected.
	E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.
	*	Duplicate RPD exceeds control limits
	J	Indicates an estimated value.
	*	ISTD response or retention time outside acceptable limits
	*	LCS or LCSD is outside acceptance limits.
	*	MS or MSD is outside acceptance limits.
	*	RPD of the LCS and LCSD exceeds the control limits
	H	Sample was prepped or analyzed beyond the specified holding time
	*	Surrogate is outside acceptance limits.
	B	The analyte was found in an associated blank, as well as in the sample.
	N	This flag indicates the presumptive evidence of a compound.
GC/MS Semi VOA		
	U	Analyzed for but not detected.
	*	Duplicate RPD exceeds control limits
	J	Indicates an estimated value.
	*	LCS or LCSD is outside acceptance limits.
	*	MS or MSD is outside acceptance limits.
Metals		
	U	Indicates analyzed for but not detected.
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
	J	Sample result is greater than the MDL but below the CRDL
	N	Spiked sample recovery is not within control limits.

QUALITY CONTROL RESULTS

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 490-394118					
490-118160-1	END 478	T	Solid	5035A	
490-118160-2	END 477	T	Solid	5035A	
490-118160-2MS	Matrix Spike	T	Solid	5035A	
490-118160-2MSD	Matrix Spike Duplicate	T	Solid	5035A	
490-118160-3	END 475	T	Solid	5035A	
490-118160-4	END 476	T	Solid	5035A	
490-118160-5	END 472	T	Solid	5035A	
490-118160-6	END 473	T	Solid	5035A	
490-118160-7	END 474	T	Solid	5035A	
490-118160-8	END 469	T	Solid	5035A	
490-118160-9	END 470	T	Solid	5035A	
490-118160-10	END 471	T	Solid	5035A	
Prep Batch: 490-394131					
490-118160-1	END 478	T	Solid	5035A	
490-118160-2	END 477	T	Solid	5035A	
490-118160-3	END 475	T	Solid	5035A	
490-118160-4	END 476	T	Solid	5035A	
490-118160-5	END 472	T	Solid	5035A	
490-118160-6	END 473	T	Solid	5035A	
490-118160-7	END 474	T	Solid	5035A	
490-118160-8	END 469	T	Solid	5035A	
490-118160-9	END 470	T	Solid	5035A	
490-118160-10	END 471	T	Solid	5035A	
Prep Batch: 490-394160					
490-118160-10MS	Matrix Spike	T	Solid	5035A	
490-118160-10MSD	Matrix Spike Duplicate	T	Solid	5035A	
Prep Batch: 490-394510					
490-118160-11TB	Trip Blank	T	Solid	5035	

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:490-394558					
LCS 490-394558/3	Lab Control Sample	T	Solid	8260C	
LCSD 490-394558/4	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-394558/6	Method Blank	T	Solid	8260C	
490-118160-1	END 478	T	Solid	8260C	490-394131
490-118160-2	END 477	T	Solid	8260C	490-394131
490-118160-3	END 475	T	Solid	8260C	490-394131
490-118160-4	END 476	T	Solid	8260C	490-394131
490-118160-5	END 472	T	Solid	8260C	490-394131
490-118160-6	END 473	T	Solid	8260C	490-394131
490-118160-7	END 474	T	Solid	8260C	490-394131
490-118160-9	END 470	T	Solid	8260C	490-394131
490-118160-10	END 471	T	Solid	8260C	490-394131
490-118160-10MS	Matrix Spike	T	Solid	8260C	490-394160
490-118160-10MSD	Matrix Spike Duplicate	T	Solid	8260C	490-394160
Analysis Batch:490-394762					
LCS 490-394762/3	Lab Control Sample	T	Solid	8260C	
LCSD 490-394762/4	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-394762/6	Method Blank	T	Solid	8260C	
490-118160-1	END 478	T	Solid	8260C	490-394118
490-118160-2	END 477	T	Solid	8260C	490-394118
490-118160-2MS	Matrix Spike	T	Solid	8260C	490-394118
490-118160-2MSD	Matrix Spike Duplicate	T	Solid	8260C	490-394118
490-118160-3	END 475	T	Solid	8260C	490-394118
490-118160-4	END 476	T	Solid	8260C	490-394118
490-118160-5	END 472	T	Solid	8260C	490-394118
490-118160-6	END 473	T	Solid	8260C	490-394118
490-118160-7	END 474	T	Solid	8260C	490-394118
490-118160-8	END 469	T	Solid	8260C	490-394118
490-118160-9	END 470	T	Solid	8260C	490-394118
490-118160-10	END 471	T	Solid	8260C	490-394118
Analysis Batch:490-394890					
LCS 490-394890/3	Lab Control Sample	T	Solid	8260C	
LCSD 490-394890/4	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-394890/7	Method Blank	T	Solid	8260C	
490-118160-8	END 469	T	Solid	8260C	490-394131
Analysis Batch:490-396079					
LCS 490-396079/5	Lab Control Sample	T	Solid	8260C	
LCSD 490-396079/6	Lab Control Sample Duplicate	T	Solid	8260C	
MB 490-396079/8	Method Blank	T	Solid	8260C	
490-118160-11TB	Trip Blank	T	Solid	8260C	490-394510

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch

Report Basis
T = Total

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 490-394683					
LCS 490-394683/2-A	Lab Control Sample	T	Solid	3550C	
LCSD 490-394683/3-A	Lab Control Sample Duplicate	T	Solid	3550C	
MB 490-394683/1-A	Method Blank	T	Solid	3550C	
490-118160-1	END 478	T	Solid	3550C	
490-118160-1MS	Matrix Spike	T	Solid	3550C	
490-118160-1MSD	Matrix Spike Duplicate	T	Solid	3550C	
490-118160-2	END 477	T	Solid	3550C	
490-118160-3	END 475	T	Solid	3550C	
490-118160-4	END 476	T	Solid	3550C	
490-118160-5	END 472	T	Solid	3550C	
490-118160-6	END 473	T	Solid	3550C	
490-118160-7	END 474	T	Solid	3550C	
490-118160-8	END 469	T	Solid	3550C	
490-118160-9	END 470	T	Solid	3550C	
490-118160-10	END 471	T	Solid	3550C	
Analysis Batch:490-394971					
LCS 490-394683/2-A	Lab Control Sample	T	Solid	8270D	490-394683
LCSD 490-394683/3-A	Lab Control Sample Duplicate	T	Solid	8270D	490-394683
MB 490-394683/1-A	Method Blank	T	Solid	8270D	490-394683
Analysis Batch:490-395424					
490-118160-2	END 477	T	Solid	8270D	490-394683
490-118160-3	END 475	T	Solid	8270D	490-394683
490-118160-4	END 476	T	Solid	8270D	490-394683
490-118160-5	END 472	T	Solid	8270D	490-394683
490-118160-6	END 473	T	Solid	8270D	490-394683
490-118160-7	END 474	T	Solid	8270D	490-394683
490-118160-8	END 469	T	Solid	8270D	490-394683
490-118160-9	END 470	T	Solid	8270D	490-394683
490-118160-10	END 471	T	Solid	8270D	490-394683
Analysis Batch:490-395625					
490-118160-1	END 478	T	Solid	8270D	490-394683
490-118160-1MSD	Matrix Spike Duplicate	T	Solid	8270D	490-394683
Analysis Batch:490-395971					
490-118160-1MS	Matrix Spike	T	Solid	8270D	490-394683

Report Basis
T = Total

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 490-395063					
LCS 490-395063/16-A	Lab Control Sample	T	Solid	3051A	
LCS 490-395063/2-A	Lab Control Sample	T	Solid	3051A	
LCSD 490-395063/17-A	Lab Control Sample Duplicate	T	Solid	3051A	
LCSD 490-395063/3-A	Lab Control Sample Duplicate	T	Solid	3051A	
MB 490-395063/1-A	Method Blank	T	Solid	3051A	
490-118160-1	END 478	T	Solid	3051A	
490-118160-1MS	Matrix Spike	T	Solid	3051A	
490-118160-1MSD	Matrix Spike Duplicate	T	Solid	3051A	
490-118160-2	END 477	T	Solid	3051A	
490-118160-3	END 475	T	Solid	3051A	
Prep Batch: 490-395548					
LCS 490-395548/2-A	Lab Control Sample	T	Solid	3051A	
MB 490-395548/1-A	Method Blank	T	Solid	3051A	
490-118034-A-1-E MS	Matrix Spike	T	Solid	3051A	
490-118034-A-1-F MSD	Matrix Spike Duplicate	T	Solid	3051A	
490-118160-4	END 476	T	Solid	3051A	
490-118160-5	END 472	T	Solid	3051A	
490-118160-6	END 473	T	Solid	3051A	
490-118160-7	END 474	T	Solid	3051A	
490-118160-8	END 469	T	Solid	3051A	
490-118160-9	END 470	T	Solid	3051A	
490-118160-10	END 471	T	Solid	3051A	
Analysis Batch:490-395738					
LCS 490-395063/16-A	Lab Control Sample	T	Solid	6010C	490-395063
LCS 490-395063/2-A	Lab Control Sample	T	Solid	6010C	490-395063
LCSD 490-395063/17-A	Lab Control Sample Duplicate	T	Solid	6010C	490-395063
LCSD 490-395063/3-A	Lab Control Sample Duplicate	T	Solid	6010C	490-395063
MB 490-395063/1-A	Method Blank	T	Solid	6010C	490-395063
490-118160-1	END 478	T	Solid	6010C	490-395063
490-118160-1MS	Matrix Spike	T	Solid	6010C	490-395063
490-118160-1MSD	Matrix Spike Duplicate	T	Solid	6010C	490-395063
490-118160-2	END 477	T	Solid	6010C	490-395063
490-118160-3	END 475	T	Solid	6010C	490-395063
Prep Batch: 490-396257					
LCS 490-396257/2-A	Lab Control Sample	T	Solid	7471B	
MB 490-396257/1-A	Method Blank	T	Solid	7471B	
490-118160-9	END 470	T	Solid	7471B	
490-118160-10	END 471	T	Solid	7471B	
490-118345-A-1-B MS	Matrix Spike	T	Solid	7471B	
490-118345-A-1-C MSD	Matrix Spike Duplicate	T	Solid	7471B	

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:490-396401					
LCS 490-395548/2-A	Lab Control Sample	T	Solid	6010C	490-395548
MB 490-395548/1-A	Method Blank	T	Solid	6010C	490-395548
490-118034-A-1-E MS	Matrix Spike	T	Solid	6010C	490-395548
490-118034-A-1-F MSD	Matrix Spike Duplicate	T	Solid	6010C	490-395548
490-118160-4	END 476	T	Solid	6010C	490-395548
490-118160-5	END 472	T	Solid	6010C	490-395548
490-118160-6	END 473	T	Solid	6010C	490-395548
490-118160-7	END 474	T	Solid	6010C	490-395548
490-118160-8	END 469	T	Solid	6010C	490-395548
490-118160-9	END 470	T	Solid	6010C	490-395548
490-118160-10	END 471	T	Solid	6010C	490-395548
Prep Batch: 490-396419					
LCS 490-396419/2-A	Lab Control Sample	T	Solid	7471B	
LCSD 490-396419/3-A	Lab Control Sample Duplicate	T	Solid	7471B	
MB 490-396419/1-A	Method Blank	T	Solid	7471B	
490-118066-F-3-B MS	Matrix Spike	T	Solid	7471B	
490-118066-F-3-C MSD	Matrix Spike Duplicate	T	Solid	7471B	
490-118160-1	END 478	T	Solid	7471B	
490-118160-2	END 477	T	Solid	7471B	
490-118160-3	END 475	T	Solid	7471B	
490-118160-4	END 476	T	Solid	7471B	
490-118160-5	END 472	T	Solid	7471B	
490-118160-6	END 473	T	Solid	7471B	
490-118160-7	END 474	T	Solid	7471B	
490-118160-8	END 469	T	Solid	7471B	

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:490-396569					
LCS 490-396257/2-A	Lab Control Sample	T	Solid	7471B	490-396257
MB 490-396257/1-A	Method Blank	T	Solid	7471B	490-396257
LCS 490-396419/2-A	Lab Control Sample	T	Solid	7471B	490-396419
LCSD 490-396419/3-A	Lab Control Sample Duplicate	T	Solid	7471B	490-396419
MB 490-396419/1-A	Method Blank	T	Solid	7471B	490-396419
490-118066-F-3-B MS	Matrix Spike	T	Solid	7471B	490-396419
490-118066-F-3-C MSD	Matrix Spike Duplicate	T	Solid	7471B	490-396419
490-118160-1	END 478	T	Solid	7471B	490-396419
490-118160-2	END 477	T	Solid	7471B	490-396419
490-118160-3	END 475	T	Solid	7471B	490-396419
490-118160-4	END 476	T	Solid	7471B	490-396419
490-118160-5	END 472	T	Solid	7471B	490-396419
490-118160-6	END 473	T	Solid	7471B	490-396419
490-118160-7	END 474	T	Solid	7471B	490-396419
490-118160-8	END 469	T	Solid	7471B	490-396419
490-118160-9	END 470	T	Solid	7471B	490-396257
490-118160-10	END 471	T	Solid	7471B	490-396257
490-118345-A-1-B MS	Matrix Spike	T	Solid	7471B	490-396257
490-118345-A-1-C MSD	Matrix Spike Duplicate	T	Solid	7471B	490-396257
Analysis Batch:490-396697					
LCS 490-395548/2-A	Lab Control Sample	T	Solid	6010C	490-395548
MB 490-395548/1-A	Method Blank	T	Solid	6010C	490-395548
490-118034-A-1-E MS	Matrix Spike	T	Solid	6010C	490-395548
490-118034-A-1-F MSD	Matrix Spike Duplicate	T	Solid	6010C	490-395548
490-118160-4	END 476	T	Solid	6010C	490-395548
490-118160-5	END 472	T	Solid	6010C	490-395548
490-118160-6	END 473	T	Solid	6010C	490-395548
490-118160-7	END 474	T	Solid	6010C	490-395548
490-118160-8	END 469	T	Solid	6010C	490-395548
490-118160-9	END 470	T	Solid	6010C	490-395548
490-118160-10	END 471	T	Solid	6010C	490-395548

Report Basis
T = Total

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:490-394165					
490-118112-A-1 DU	Duplicate	T	Solid	Moisture	
490-118160-1	END 478	T	Solid	Moisture	
490-118160-2	END 477	T	Solid	Moisture	
490-118160-3	END 475	T	Solid	Moisture	
490-118160-4	END 476	T	Solid	Moisture	
490-118160-5	END 472	T	Solid	Moisture	
490-118160-6	END 473	T	Solid	Moisture	
490-118160-7	END 474	T	Solid	Moisture	
490-118160-8	END 469	T	Solid	Moisture	
490-118160-9	END 470	T	Solid	Moisture	
490-118160-9MS	Matrix Spike	T	Solid	Moisture	
490-118160-9MSD	Matrix Spike Duplicate	T	Solid	Moisture	
490-118160-10	END 471	T	Solid	Moisture	

Report Basis
T = Total

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
490-118160-1	END 478	150*	104	105	233*
490-118160-2	END 477	133*	120	125	141*
490-118160-3	END 475	108*	101	97	109
490-118160-4	END 476	163*	122	122	160*
490-118160-5	END 472	148*	101	99	121
490-118160-6	END 473	136*	114	117	162*
490-118160-7	END 474	202*	114	115	123*
490-118160-8	END 469	159*	108	106	128
490-118160-9	END 470	127*	128	132*	161*
490-118160-10	END 471	146*	120	121	125*
MB 490-394558/6		96	99	97	95
MB 490-394890/7		90	100	96	95
MB 490-396079/8		93	101	94	93
LCS 490-394558/3		93	96	94	94
LCS 490-394890/3		84	98	94	94
LCS 490-396079/5		91	97	92	92
LCSD 490-394558/4		93	95	94	96
LCSD 490-394890/4		86	102	101	93
LCSD 490-396079/6		92	98	90	94
490-118160-10 MS	END 471 MS	120*	102	99	118
490-118160-10 MSD	END 471 MSD	136*	108	107	119

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	70-130
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Solid

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	DBFM %Rec	TOL %Rec
490-118160-11	Trip Blank	97	90	105	92

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130
DBFM = Dibromofluoromethane (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
490-118160-1	END 478	88	92	93	99
490-118160-2	END 477	87	93	92	92
490-118160-3	END 475	90	98	99	90
490-118160-4	END 476	93	93	92	97
490-118160-5	END 472	92	98	97	90
490-118160-6	END 473	84	95	98	93
490-118160-7	END 474	90	95	96	91
490-118160-8	END 469	86	95	95	93
490-118160-9	END 470	87	96	97	91
490-118160-10	END 471	90	95	94	93
MB 490-394762/6		87	92	91	92
LCS 490-394762/3		82	96	96	91
LCSD 490-394762/4		86	95	92	93
490-118160-2 MS	END 477 MS	85	96	95	91
490-118160-2 MSD	END 477 MSD	85	97	95	93

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	70-130
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Surrogate Recovery Report

8270D Semivolatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	FBP %Rec	2FP %Rec	NBZ %Rec	PHL %Rec	TPHL %Rec	TBP %Rec
490-118160-1	END 478	57	52	65	50	64	64
490-118160-2	END 477	72	58	59	62	83	89
490-118160-3	END 475	74	46	68	58	81	66
490-118160-4	END 476	41	25	36	30	47	47
490-118160-5	END 472	67	61	61	63	77	86
490-118160-6	END 473	68	60	56	66	79	86
490-118160-7	END 474	66	49	59	53	72	86
490-118160-8	END 469	58	63	67	68	81	96
490-118160-9	END 470	67	47	56	58	77	89
490-118160-10	END 471	75	54	65	68	85	101
MB 490-394683/1-A		83	60	85	64	92	54
LCS 490-394683/2-A		74	69	73	75	85	82
LCSD 490-394683/3-A		79	72	77	75	88	84
490-118160-1 MS	END 478 MS	85	52	68	62	84	91
490-118160-1 MSD	END 478 MSD	69	49	65	53	65	73

Surrogate	Acceptance Limits
FBP = 2-Fluorobiphenyl (Surr)	29-120
2FP = 2-Fluorophenol (Surr)	10-120
NBZ = Nitrobenzene-d5 (Surr)	27-120
PHL = Phenol-d5 (Surr)	10-120
TPHL = Terphenyl-d14 (Surr)	13-120
TBP = 2,4,6-Tribromophenol (Surr)	10-120

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-394118

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-118160-2	Analysis Batch:	490-394762	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-394118	Lab File ID:	121516-44.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.12 g
Analysis Date:	12/16/2016 0812			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1230				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-118160-2	Analysis Batch:	490-394762	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-394118	Lab File ID:	121516-45.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.12 g
Analysis Date:	12/16/2016 0842			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1230				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	92	92	10 - 150	1	50		
Benzene	94	98	21 - 150	4	50		
Bromobenzene	75	80	10 - 150	7	50		
Bromochloromethane	94	98	10 - 150	3	50		
Bromodichloromethane	93	100	10 - 150	7	50		
Bromoform	97	107	10 - 150	10	50		
Bromomethane	34	38	10 - 150	11	50		
2-Butanone (MEK)	102	104	10 - 150	3	50		
Carbon disulfide	80	82	10 - 150	3	50		
Carbon tetrachloride	97	101	10 - 150	4	50		
Chlorobenzene	90	97	10 - 150	8	50		
Chloroethane	39	47	10 - 150	18	50		
Chloroform	92	95	10 - 150	3	50		
Chloromethane	71	74	10 - 150	5	50		
cis-1,2-Dichloroethene	96	101	10 - 150	5	50		
cis-1,3-Dichloropropene	78	86	10 - 150	9	50		
Dibromochloromethane	92	98	10 - 150	6	50		
1,2-Dibromo-3-chloropropane	97	94	10 - 150	3	50		
1,2-Dibromoethane	91	97	10 - 150	6	50		
1,2-Dichlorobenzene	86	91	10 - 150	6	50		
1,3-Dichlorobenzene	83	88	10 - 150	6	50		
1,4-Dichlorobenzene	83	89	10 - 150	7	50		
Dichlorodifluoromethane	104	107	10 - 150	3	50		
1,1-Dichloroethane	86	90	10 - 150	5	50		
1,2-Dichloroethane	93	95	24 - 138	2	50		
1,1-Dichloroethene	95	101	10 - 150	7	50		
1,2-Dichloropropane	84	89	10 - 150	5	50		
1,3-Dichloropropane	83	89	10 - 150	8	50		
2,2-Dichloropropane	100	103	10 - 150	3	50		
1,1-Dichloropropene	90	93	10 - 150	4	50		
Ethylbenzene	88	95	10 - 150	7	50		
Hexachlorobutadiene	71	77	10 - 150	9	50		

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-394118

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-118160-2	Analysis Batch:	490-394762	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-394118	Lab File ID:	121516-44.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.12 g
Analysis Date:	12/16/2016 0812			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1230				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-118160-2	Analysis Batch:	490-394762	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-394118	Lab File ID:	121516-45.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.12 g
Analysis Date:	12/16/2016 0842			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1230				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2-Hexanone	88	97	10 - 150	9	50		
Isopropylbenzene	92	100	10 - 150	8	50		
Methylene bromide	92	99	10 - 150	7	50		
Methylene Chloride	97	99	24 - 150	1	50		
4-Methyl-2-pentanone (MIBK)	87	91	10 - 150	4	50		
Methyl tert butyl ether	105	110	10 - 150	4	50		
m,p-Xylene	84	93	10 - 150	8	50		
Naphthalene	76	90	10 - 150	17	50		
n-Butylbenzene	76	81	10 - 150	6	50		
N-Propylbenzene	82	86	10 - 150	6	50		
o-Chlorotoluene	82	88	10 - 150	7	50		
o-Xylene	87	95	10 - 150	8	50		
p-Chlorotoluene	79	84	10 - 150	7	50		
p-Isopropyltoluene	84	90	10 - 150	7	50		
sec-Butylbenzene	85	92	10 - 150	7	50		
Styrene	88	96	10 - 150	9	50		
tert-Butylbenzene	84	90	10 - 150	7	50		
1,1,1,2-Tetrachloroethane	95	102	10 - 150	7	50		
1,1,2,2-Tetrachloroethane	82	84	10 - 150	3	50		
Tetrachloroethene	92	98	10 - 150	6	50		
Toluene	84	90	17 - 150	7	50		
trans-1,2-Dichloroethene	85	88	10 - 150	3	50		
trans-1,3-Dichloropropene	82	89	10 - 150	8	50		
1,2,3-Trichlorobenzene	79	88	10 - 150	10	50		
1,2,4-Trichlorobenzene	76	80	10 - 150	5	50		
1,1,1-Trichloroethane	96	100	10 - 150	4	50		
1,1,2-Trichloroethane	86	89	10 - 150	4	50		
Trichloroethene	98	102	10 - 150	4	50		
Trichlorofluoromethane	85	89	10 - 150	4	50		
1,2,3-Trichloropropane	83	90	10 - 150	9	50		
1,2,4-Trimethylbenzene	81	87	10 - 150	7	50		
1,3,5-Trimethylbenzene	84	90	10 - 150	7	50		

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-394118

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-118160-2	Analysis Batch:	490-394762	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-394118	Lab File ID:	121516-44.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.12 g
Analysis Date:	12/16/2016 0812			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1230				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-118160-2	Analysis Batch:	490-394762	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-394118	Lab File ID:	121516-45.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.12 g
Analysis Date:	12/16/2016 0842			Final Weight/Volume:	5.0 mL
Prep Date:	12/05/2016 1230				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Vinyl acetate	17	19	10 - 150	6	50	J	J
Vinyl chloride	84	87	10 - 150	4	50		
Xylenes (total)	86	94	10 - 150	8	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	85	85	70 - 130
Dibromofluoromethane (Surr)	96	97	70 - 130
1,2-Dichloroethane-d4 (Surr)	95	95	70 - 130
Toluene-d8 (Surr)	91	93	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-394160

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-118160-10	Analysis Batch:	490-394558	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-394160	Lab File ID:	121516-23.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.26 g
Analysis Date:	12/15/2016 2128			Final Weight/Volume:	5.0 mL
Prep Date:	12/14/2016 0947				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-118160-10	Analysis Batch:	490-394558	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-394160	Lab File ID:	121516-24.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.86 g
Analysis Date:	12/15/2016 2159			Final Weight/Volume:	5.0 mL
Prep Date:	12/14/2016 0947				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	114	128	10 - 150	1	50		
Benzene	88	93	21 - 150	4	50		
Bromobenzene	72	102	10 - 150	24	50	*	*
Bromochloromethane	96	114	10 - 150	7	50		
Bromodichloromethane	81	91	10 - 150	1	50		
Bromoform	75	88	10 - 150	5	50		
Bromomethane	87	104	10 - 150	7	50		
2-Butanone (MEK)	94	110	10 - 150	4	50		
Carbon disulfide	77	89	10 - 150	4	50		
Carbon tetrachloride	94	83	10 - 150	22	50		
Chlorobenzene	64	75	10 - 150	6	50		
Chloroethane	90	101	10 - 150	1	50		
Chloroform	92	102	10 - 150	1	50		
Chloromethane	62	88	10 - 150	24	50		
cis-1,2-Dichloroethene	89	104	10 - 150	5	50		
cis-1,3-Dichloropropene	83	105	10 - 150	13	50		
Dibromochloromethane	86	106	10 - 150	10	50		
1,2-Dibromo-3-chloropropane	84	132	10 - 150	34	50	*	*
1,2-Dibromoethane	76	101	10 - 150	18	50		
1,2-Dichlorobenzene	55	68	10 - 150	10	50	*	*
1,3-Dichlorobenzene	55	69	10 - 150	11	50	*	*
1,4-Dichlorobenzene	52	65	10 - 150	11	50	*	*
Dichlorodifluoromethane	117	123	10 - 150	6	50		
1,1-Dichloroethane	93	101	10 - 150	3	50		
1,2-Dichloroethane	84	96	24 - 138	2	50		
1,1-Dichloroethene	98	109	10 - 150	1	50		
1,2-Dichloropropane	80	87	10 - 150	2	50		
1,3-Dichloropropane	82	104	10 - 150	13	50		
2,2-Dichloropropane	108	115	10 - 150	4	50		
1,1-Dichloropropene	76	75	10 - 150	12	50		
Ethylbenzene	71	65	10 - 150	19	50		
Hexachlorobutadiene	24	13	10 - 150	69	50	*	*

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-394160

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-118160-10	Analysis Batch:	490-394558	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-394160	Lab File ID:	121516-23.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.26 g
Analysis Date:	12/15/2016 2128			Final Weight/Volume:	5.0 mL
Prep Date:	12/14/2016 0947				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-118160-10	Analysis Batch:	490-394558	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-394160	Lab File ID:	121516-24.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.86 g
Analysis Date:	12/15/2016 2159			Final Weight/Volume:	5.0 mL
Prep Date:	12/14/2016 0947				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2-Hexanone	81	115	10 - 150	24	50		
Isopropylbenzene	61	41	10 - 150	46	50		
Methylene bromide	75	90	10 - 150	7	50		
Methylene Chloride	179	199	24 - 150	0	50	*	*
4-Methyl-2-pentanone (MIBK)	96	127	10 - 150	17	50		
Methyl tert butyl ether	114	126	10 - 150	1	50		
m,p-Xylene	58	54	10 - 150	15	50		
Naphthalene	15	26	10 - 150	37	50	*	*
n-Butylbenzene	36	26	10 - 150	35	50	*	*
N-Propylbenzene	75	62	10 - 150	27	50	*	*
o-Chlorotoluene	81	80	10 - 150	12	50	*	*
o-Xylene	58	55	10 - 150	14	50		
p-Chlorotoluene	66	73	10 - 150	1	50	*	*
p-Isopropyltoluene	64	42	10 - 150	51	50	*	*
sec-Butylbenzene	65	41	10 - 150	53	50	*	*
Styrene	37	52	10 - 150	24	50		
tert-Butylbenzene	84	51	10 - 150	57	50	*	*
1,1,1,2-Tetrachloroethane	94	96	10 - 150	8	50		
1,1,2,2-Tetrachloroethane	110	158	10 - 150	25	50	*	*
Tetrachloroethene	84	69	10 - 150	30	50		
Toluene	78	87	17 - 150	0	50		
trans-1,2-Dichloroethene	77	90	10 - 150	4	50		
trans-1,3-Dichloropropene	69	92	10 - 150	19	50		
1,2,3-Trichlorobenzene	23	28	10 - 150	8	50	*	*
1,2,4-Trichlorobenzene	26	27	10 - 150	8	50	*	*
1,1,1-Trichloroethane	99	98	10 - 150	12	50		
1,1,2-Trichloroethane	103	165	10 - 150	36	50		*
Trichloroethene	79	83	10 - 150	5	50		
Trichlorofluoromethane	104	106	10 - 150	9	50		
1,2,3-Trichloropropane	121	175	10 - 150	26	50	*	*
1,2,4-Trimethylbenzene	44	37	10 - 150	15	50	*	*
1,3,5-Trimethylbenzene	72	53	10 - 150	35	50	*	*

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-394160

Method: 8260C
Preparation: 5035A

MS Lab Sample ID:	490-118160-10	Analysis Batch:	490-394558	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-394160	Lab File ID:	121516-23.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.26 g
Analysis Date:	12/15/2016 2128			Final Weight/Volume:	5.0 mL
Prep Date:	12/14/2016 0947				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-118160-10	Analysis Batch:	490-394558	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	490-394160	Lab File ID:	121516-24.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.86 g
Analysis Date:	12/15/2016 2159			Final Weight/Volume:	5.0 mL
Prep Date:	12/14/2016 0947				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Vinyl acetate	137	156	10 - 150	2	50		*
Vinyl chloride	91	103	10 - 150	2	50		
Xylenes (total)	58	55	10 - 150	15	50		

Surrogate	MS % Rec		MSD % Rec		Acceptance Limits
4-Bromofluorobenzene (Surr)	120	*	136	*	70 - 130
Dibromofluoromethane (Surr)	102		108		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		107		70 - 130
Toluene-d8 (Surr)	118		119		70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Method Blank - Batch: 490-394558

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-394558/6	Analysis Batch:	490-394558	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121516-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/15/2016 1315	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	0.00840	U	0.00840	0.0500
Benzene	0.000670	U	0.000670	0.00200
Bromobenzene	0.000720	U	0.000720	0.00200
Bromochloromethane	0.000550	U	0.000550	0.00200
Bromodichloromethane	0.000550	U	0.000550	0.00200
Bromoform	0.000550	U	0.000550	0.00200
Bromomethane	0.00120	U	0.00120	0.00200
2-Butanone (MEK)	0.00510	U	0.00510	0.0500
Carbon disulfide	0.00360	U	0.00360	0.00500
Carbon tetrachloride	0.000670	U	0.000670	0.00200
Chlorobenzene	0.000670	U	0.000670	0.00200
Chloroethane	0.00190	U	0.00190	0.00500
Chloroform	0.000670	U	0.000670	0.00200
Chloromethane	0.000670	U	0.000670	0.00200
cis-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
cis-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
Dibromochloromethane	0.000340	U	0.000340	0.00200
1,2-Dibromo-3-chloropropane	0.000700	U	0.000700	0.00500
1,2-Dibromoethane	0.00100	U	0.00100	0.00200
1,2-Dichlorobenzene	0.000340	U	0.000340	0.00200
1,3-Dichlorobenzene	0.000670	U	0.000670	0.00200
1,4-Dichlorobenzene	0.000670	U	0.000670	0.00200
Dichlorodifluoromethane	0.00100	U	0.00100	0.00200
1,1-Dichloroethane	0.000670	U	0.000670	0.00200
1,2-Dichloroethane	0.000670	U	0.000670	0.00200
1,1-Dichloroethene	0.000570	U	0.000570	0.00200
1,2-Dichloropropane	0.000940	U	0.000940	0.00200
1,3-Dichloropropane	0.000940	U	0.000940	0.00200
2,2-Dichloropropane	0.000670	U	0.000670	0.00200
1,1-Dichloropropene	0.000510	U	0.000510	0.00200
Ethylbenzene	0.000670	U	0.000670	0.00200
Hexachlorobutadiene	0.00114	U	0.00114	0.00500
2-Hexanone	0.0167	U	0.0167	0.0500
Iodomethane	0.00670	U	0.00670	0.0200
Isopropylbenzene	0.000410	U	0.000410	0.00200
Methylene bromide	0.000560	U	0.000560	0.00200
Methylene Chloride	0.000860	U	0.000860	0.0100
4-Methyl-2-pentanone (MIBK)	0.00190	U	0.00190	0.0500
Methyl tert butyl ether	0.000960	U	0.000960	0.00200
m,p-Xylene	0.000560	U	0.000560	0.00400
Naphthalene	0.00170	U	0.00170	0.00500
n-Butylbenzene	0.000980	U	0.000980	0.00200
N-Propylbenzene	0.000670	U	0.000670	0.00200
o-Chlorotoluene	0.000890	U	0.000890	0.00200
o-Xylene	0.000670	U	0.000670	0.00200

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Method Blank - Batch: 490-394558

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-394558/6	Analysis Batch:	490-394558	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121516-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/15/2016 1315	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.000840	U	0.000840	0.00200
p-Isopropyltoluene	0.000670	U	0.000670	0.00200
sec-Butylbenzene	0.000670	U	0.000670	0.00200
Styrene	0.00110	U	0.00110	0.00200
tert-Butylbenzene	0.000900	U	0.000900	0.00200
1,1,1,2-Tetrachloroethane	0.000670	U	0.000670	0.00200
1,1,2,2-Tetrachloroethane	0.00100	U	0.00100	0.00200
Tetrachloroethene	0.000730	U	0.000730	0.00200
Toluene	0.000740	U	0.000740	0.00200
trans-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
trans-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
1,2,3-Trichlorobenzene	0.000380	U	0.000380	0.00200
1,2,4-Trichlorobenzene	0.000670	U	0.000670	0.00200
1,1,1-Trichloroethane	0.000920	U	0.000920	0.00200
1,1,2-Trichloroethane	0.00140	U	0.00140	0.00500
Trichloroethene	0.000960	U	0.000960	0.00200
Trichlorofluoromethane	0.00100	U	0.00100	0.00200
1,2,3-Trichloropropane	0.000550	U	0.000550	0.00200
1,2,4-Trimethylbenzene	0.00100	U	0.00100	0.00200
1,3,5-Trimethylbenzene	0.000750	U	0.000750	0.00200
Vinyl acetate	0.00440	U	0.00440	0.0200
Vinyl chloride	0.00110	U	0.00110	0.00200
Xylenes (total)	0.00123	U	0.00123	0.00600

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	96	70 - 130
Dibromofluoromethane (Surr)	99	70 - 130
1,2-Dichloroethane-d4 (Surr)	97	70 - 130
Toluene-d8 (Surr)	95	70 - 130

Method Blank TICs- Batch: 490-394558

Cas Number	Analyte	RT	Est. Result (mg	Qual
91-57-6	2-Methylnaphthalene	12.59	0.002083	J
	Unknown	13.08	0.01222	J
	Unknown	13.30	0.02601	J

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-394558

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-394558/3	Analysis Batch:	490-394558	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121516-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/15/2016 1143	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-394558/4	Analysis Batch:	490-394558	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121516-05.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/15/2016 1214	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	105	91	45 - 145	15	38		
Benzene	109	102	70 - 130	6	37		
Bromobenzene	98	95	67 - 130	3	40		
Bromochloromethane	105	103	70 - 133	1	15		
Bromodichloromethane	102	97	70 - 130	5	20		
Bromoform	105	103	59 - 137	2	17		
Bromomethane	103	96	32 - 150	7	45		
2-Butanone (MEK)	113	102	50 - 149	11	39		
Carbon disulfide	109	102	66 - 138	6	41		
Carbon tetrachloride	120	112	70 - 131	7	41		
Chlorobenzene	108	105	70 - 130	3	40		
Chloroethane	101	91	37 - 150	10	50		
Chloroform	105	99	70 - 130	6	15		
Chloromethane	86	79	53 - 150	9	47		
cis-1,2-Dichloroethene	113	105	70 - 132	7	18		
cis-1,3-Dichloropropene	96	94	70 - 130	2	42		
Dibromochloromethane	102	97	70 - 130	4	14		
1,2-Dibromo-3-chloropropane	105	102	47 - 144	2	38		
1,2-Dibromoethane	100	96	69 - 130	3	17		
1,2-Dichlorobenzene	109	108	70 - 134	1	40		
1,3-Dichlorobenzene	115	116	69 - 137	1	41		
1,4-Dichlorobenzene	111	116	66 - 134	4	41		
Dichlorodifluoromethane	121	116	32 - 150	5	50		
1,1-Dichloroethane	104	97	70 - 130	7	42		
1,2-Dichloroethane	99	95	65 - 134	4	16		
1,1-Dichloroethene	117	110	70 - 131	6	43		
1,2-Dichloropropane	96	89	70 - 130	7	15		
1,3-Dichloropropane	92	91	70 - 130	2	15		
2,2-Dichloropropane	124	116	57 - 150	7	42		
1,1-Dichloropropene	108	103	70 - 130	5	41		
Ethylbenzene	109	105	70 - 130	4	38		
Hexachlorobutadiene	99	102	64 - 137	2	44		
2-Hexanone	100	95	47 - 148	5	38		
Isopropylbenzene	112	110	70 - 130	2	39		
Methylene bromide	100	96	70 - 130	4	19		

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-394558

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-394558/3	Analysis Batch:	490-394558	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121516-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/15/2016 1143	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-394558/4	Analysis Batch:	490-394558	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121516-05.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/15/2016 1214	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	105	97	69 - 130	8	19		
4-Methyl-2-pentanone (MIBK)	95	90	48 - 150	6	41		
Methyl tert butyl ether	106	102	54 - 145	3	36		
m,p-Xylene	110	107	70 - 130	3	38		
Naphthalene	97	99	55 - 149	2	37		
n-Butylbenzene	101	109	57 - 150	7	39		
N-Propylbenzene	109	107	62 - 150	2	38		
o-Chlorotoluene	114	111	70 - 132	3	41		
o-Xylene	108	106	70 - 130	2	38		
p-Chlorotoluene	111	108	67 - 135	3	41		
p-Isopropyltoluene	109	111	66 - 147	2	38		
sec-Butylbenzene	108	111	68 - 147	2	38		
Styrene	108	106	70 - 131	2	40		
tert-Butylbenzene	105	103	70 - 138	2	38		
1,1,1,2-Tetrachloroethane	111	106	70 - 130	4	41		
1,1,2,2-Tetrachloroethane	95	90	61 - 134	5	16		
Tetrachloroethene	118	116	70 - 130	2	41		
Toluene	105	100	70 - 130	5	40		
trans-1,2-Dichloroethene	105	98	70 - 130	7	41		
trans-1,3-Dichloropropene	96	95	67 - 130	1	41		
1,2,3-Trichlorobenzene	104	113	57 - 146	7	42		
1,2,4-Trichlorobenzene	100	110	47 - 150	10	43		
1,1,1-Trichloroethane	116	110	70 - 130	6	41		
1,1,2-Trichloroethane	90	87	70 - 130	3	17		
Trichloroethene	115	110	70 - 130	4	41		
Trichlorofluoromethane	119	114	53 - 150	5	49		
1,2,3-Trichloropropane	99	92	60 - 139	8	16		
1,2,4-Trimethylbenzene	107	111	70 - 140	3	38		
1,3,5-Trimethylbenzene	117	115	69 - 141	2	38		
Vinyl acetate	154	191	10 - 150	22	50	*	*
Vinyl chloride	102	94	63 - 150	9	46		
Xylenes (total)	109	106	70 - 130	3	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	93	93	70 - 130
Dibromofluoromethane (Surr)	96	95	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94	94	70 - 130
Toluene-d8 (Surr)	94	96	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Method Blank - Batch: 490-394762

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-394762/6	Analysis Batch:	490-394762	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121516-31.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/16/2016 0133	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	2.00	U	2.00	2.50
Benzene	0.0340	U	0.0340	0.100
Bromobenzene	0.0360	U	0.0360	0.100
Bromochloromethane	0.0280	U	0.0280	0.100
Bromodichloromethane	0.0280	U	0.0280	0.100
Bromoform	0.0280	U	0.0280	0.100
Bromomethane	0.0600	U	0.0600	0.100
2-Butanone (MEK)	0.260	U	0.260	2.50
Carbon disulfide	0.180	U	0.180	0.250
Carbon tetrachloride	0.0340	U	0.0340	0.100
Chlorobenzene	0.0340	U	0.0340	0.100
Chloroethane	0.0950	U	0.0950	0.250
Chloroform	0.0340	U	0.0340	0.100
Chloromethane	0.0340	U	0.0340	0.100
cis-1,2-Dichloroethene	0.0340	U	0.0340	0.100
cis-1,3-Dichloropropene	0.0340	U	0.0340	0.100
Dibromochloromethane	0.0170	U	0.0170	0.100
1,2-Dibromo-3-chloropropane	0.0350	U	0.0350	0.250
1,2-Dibromoethane	0.0500	U	0.0500	0.100
1,2-Dichlorobenzene	0.0170	U	0.0170	0.100
1,3-Dichlorobenzene	0.0340	U	0.0340	0.100
1,4-Dichlorobenzene	0.0470	U	0.0470	0.100
Dichlorodifluoromethane	0.0500	U	0.0500	0.100
1,1-Dichloroethane	0.0340	U	0.0340	0.100
1,2-Dichloroethane	0.0340	U	0.0340	0.100
1,1-Dichloroethene	0.0290	U	0.0290	0.100
1,2-Dichloropropane	0.0470	U	0.0470	0.100
1,3-Dichloropropane	0.0470	U	0.0470	0.100
2,2-Dichloropropane	0.0340	U	0.0340	0.100
1,1-Dichloropropene	0.0260	U	0.0260	0.100
Ethylbenzene	0.0340	U	0.0340	0.100
Hexachlorobutadiene	0.0550	U	0.0550	0.250
2-Hexanone	0.840	U	0.840	2.50
Iodomethane	0.340	U	0.340	1.00
Isopropylbenzene	0.0210	U	0.0210	0.100
Methylene bromide	0.0280	U	0.0280	0.100
Methylene Chloride	0.0500	U	0.0500	0.500
4-Methyl-2-pentanone (MIBK)	0.850	U	0.850	2.50
Methyl tert butyl ether	0.0500	U	0.0500	0.100
m,p-Xylene	0.0280	U	0.0280	0.150
Naphthalene	0.08615	J	0.0850	0.250
n-Butylbenzene	0.0500	U	0.0500	0.100
N-Propylbenzene	0.0340	U	0.0340	0.100
o-Chlorotoluene	0.0460	U	0.0460	0.100
o-Xylene	0.0340	U	0.0340	0.100

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Method Blank - Batch: 490-394762

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-394762/6	Analysis Batch:	490-394762	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121516-31.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/16/2016 0133	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.0420	U	0.0420	0.100
p-Isopropyltoluene	0.0340	U	0.0340	0.100
sec-Butylbenzene	0.0340	U	0.0340	0.100
Styrene	0.0550	U	0.0550	0.100
tert-Butylbenzene	0.0500	U	0.0500	0.100
1,1,1,2-Tetrachloroethane	0.0340	U	0.0340	0.100
1,1,2,2-Tetrachloroethane	0.0500	U	0.0500	0.100
Tetrachloroethene	0.0340	U	0.0340	0.100
Toluene	0.0370	U	0.0370	0.100
trans-1,2-Dichloroethene	0.0340	U	0.0340	0.100
trans-1,3-Dichloropropene	0.0340	U	0.0340	0.100
1,2,3-Trichlorobenzene	0.03685	J	0.0190	0.100
1,2,4-Trichlorobenzene	0.0340	U	0.0340	0.100
1,1,1-Trichloroethane	0.0460	U	0.0460	0.100
1,1,2-Trichloroethane	0.0700	U	0.0700	0.250
Trichloroethene	0.0500	U	0.0500	0.100
Trichlorofluoromethane	0.0500	U	0.0500	0.100
1,2,3-Trichloropropane	0.0280	U	0.0280	0.100
1,2,4-Trimethylbenzene	0.0500	U	0.0500	0.100
1,3,5-Trimethylbenzene	0.0380	U	0.0380	0.100
Vinyl acetate	0.220	U	0.220	1.00
Vinyl chloride	0.0550	U	0.0550	0.100
Xylenes (total)	0.0620	U	0.0620	0.150

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	87	70 - 130
Dibromofluoromethane (Surr)	92	70 - 130
1,2-Dichloroethane-d4 (Surr)	91	70 - 130
Toluene-d8 (Surr)	92	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-394762

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-394762/3	Analysis Batch:	490-394762	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121516-28.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/16/2016 0001	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-394762/4	Analysis Batch:	490-394762	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121516-29.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/16/2016 0032	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	89	86	45 - 145	4	38		
Benzene	98	96	70 - 130	2	37		
Bromobenzene	81	79	67 - 130	2	40		
Bromochloromethane	111	95	70 - 133	16	15		*
Bromodichloromethane	99	95	70 - 130	4	20		
Bromoform	107	97	59 - 137	9	17		
Bromomethane	31	32	32 - 150	4	45	*	
2-Butanone (MEK)	99	94	50 - 149	5	39		
Carbon disulfide	79	81	66 - 138	2	41		
Carbon tetrachloride	102	99	70 - 131	3	41		
Chlorobenzene	99	96	70 - 130	3	40		
Chloroethane	39	37	37 - 150	7	50		
Chloroform	95	94	70 - 130	1	15		
Chloromethane	75	78	53 - 150	3	47		
cis-1,2-Dichloroethene	100	99	70 - 132	1	18		
cis-1,3-Dichloropropene	85	83	70 - 130	2	42		
Dibromochloromethane	98	93	70 - 130	5	14		
1,2-Dibromo-3-chloropropane	95	90	47 - 144	5	38		
1,2-Dibromoethane	95	87	69 - 130	8	17		
1,2-Dichlorobenzene	97	95	70 - 134	3	40		
1,3-Dichlorobenzene	96	94	69 - 137	2	41		
1,4-Dichlorobenzene	98	92	66 - 134	6	41		
Dichlorodifluoromethane	106	106	32 - 150	1	50		
1,1-Dichloroethane	89	88	70 - 130	1	42		
1,2-Dichloroethane	96	91	65 - 134	5	16		
1,1-Dichloroethene	99	97	70 - 131	2	43		
1,2-Dichloropropane	88	86	70 - 130	3	15		
1,3-Dichloropropane	87	82	70 - 130	6	15		
2,2-Dichloropropane	104	103	57 - 150	2	42		
1,1-Dichloropropene	92	90	70 - 130	2	41		
Ethylbenzene	95	93	70 - 130	3	38		
Hexachlorobutadiene	77	76	64 - 137	1	44		
2-Hexanone	91	87	47 - 148	4	38		
Isopropylbenzene	100	99	70 - 130	1	39		
Methylene bromide	99	92	70 - 130	7	19		

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-394762

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-394762/3	Analysis Batch:	490-394762	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121516-28.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/16/2016 0001	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-394762/4	Analysis Batch:	490-394762	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121516-29.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.1 mL
Analysis Date:	12/16/2016 0032	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	99	97	69 - 130	2	19		
4-Methyl-2-pentanone (MIBK)	89	84	48 - 150	6	41		
Methyl tert butyl ether	111	105	54 - 145	5	36		
m,p-Xylene	94	92	70 - 130	2	38		
Naphthalene	93	90	55 - 149	3	37		
n-Butylbenzene	84	84	57 - 150	0	39		
N-Propylbenzene	87	88	62 - 150	2	38		
o-Chlorotoluene	79	89	70 - 132	12	41		
o-Xylene	96	94	70 - 130	2	38		
p-Chlorotoluene	87	86	67 - 135	1	41		
p-Isopropyltoluene	92	93	66 - 147	1	38		
sec-Butylbenzene	90	93	68 - 147	3	38		
Styrene	101	98	70 - 131	3	40		
tert-Butylbenzene	89	89	70 - 138	0	38		
1,1,1,2-Tetrachloroethane	102	98	70 - 130	3	41		
1,1,2,2-Tetrachloroethane	85	82	61 - 134	4	16		
Tetrachloroethene	98	96	70 - 130	2	41		
Toluene	91	89	70 - 130	3	40		
trans-1,2-Dichloroethene	88	86	70 - 130	2	41		
trans-1,3-Dichloropropene	89	85	67 - 130	5	41		
1,2,3-Trichlorobenzene	92	89	57 - 146	3	42		
1,2,4-Trichlorobenzene	86	84	47 - 150	2	43		
1,1,1-Trichloroethane	101	99	70 - 130	3	41		
1,1,2-Trichloroethane	87	81	70 - 130	7	17		
Trichloroethene	103	100	70 - 130	3	41		
Trichlorofluoromethane	84	84	53 - 150	0	49		
1,2,3-Trichloropropane	85	81	60 - 139	4	16		
1,2,4-Trimethylbenzene	88	90	70 - 140	2	38		
1,3,5-Trimethylbenzene	91	88	69 - 141	4	38		
Vinyl acetate	67	58	10 - 150	13	50		
Vinyl chloride	85	87	63 - 150	2	46		
Xylenes (total)	95	93	70 - 130	2	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	82	86	70 - 130
Dibromofluoromethane (Surr)	96	95	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96	92	70 - 130
Toluene-d8 (Surr)	91	93	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Method Blank - Batch: 490-394890

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-394890/7	Analysis Batch:	490-394890	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121616-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/16/2016 1248	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	0.00840	U	0.00840	0.0500
Benzene	0.000670	U	0.000670	0.00200
Bromobenzene	0.000720	U	0.000720	0.00200
Bromochloromethane	0.000550	U	0.000550	0.00200
Bromodichloromethane	0.000550	U	0.000550	0.00200
Bromoform	0.000550	U	0.000550	0.00200
Bromomethane	0.00120	U	0.00120	0.00200
2-Butanone (MEK)	0.00510	U	0.00510	0.0500
Carbon disulfide	0.00360	U	0.00360	0.00500
Carbon tetrachloride	0.000670	U	0.000670	0.00200
Chlorobenzene	0.000670	U	0.000670	0.00200
Chloroethane	0.00190	U	0.00190	0.00500
Chloroform	0.000670	U	0.000670	0.00200
Chloromethane	0.000670	U	0.000670	0.00200
cis-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
cis-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
Dibromochloromethane	0.000340	U	0.000340	0.00200
1,2-Dibromo-3-chloropropane	0.000700	U	0.000700	0.00500
1,2-Dibromoethane	0.00100	U	0.00100	0.00200
1,2-Dichlorobenzene	0.000340	U	0.000340	0.00200
1,3-Dichlorobenzene	0.000670	U	0.000670	0.00200
1,4-Dichlorobenzene	0.000670	U	0.000670	0.00200
Dichlorodifluoromethane	0.00100	U	0.00100	0.00200
1,1-Dichloroethane	0.000670	U	0.000670	0.00200
1,2-Dichloroethane	0.000670	U	0.000670	0.00200
1,1-Dichloroethene	0.000570	U	0.000570	0.00200
1,2-Dichloropropane	0.000940	U	0.000940	0.00200
1,3-Dichloropropane	0.000940	U	0.000940	0.00200
2,2-Dichloropropane	0.000670	U	0.000670	0.00200
1,1-Dichloropropene	0.000510	U	0.000510	0.00200
Ethylbenzene	0.000670	U	0.000670	0.00200
Hexachlorobutadiene	0.00114	U	0.00114	0.00500
2-Hexanone	0.0167	U	0.0167	0.0500
Iodomethane	0.00670	U	0.00670	0.0200
Isopropylbenzene	0.000410	U	0.000410	0.00200
Methylene bromide	0.000560	U	0.000560	0.00200
Methylene Chloride	0.000860	U	0.000860	0.0100
4-Methyl-2-pentanone (MIBK)	0.00190	U	0.00190	0.0500
Methyl tert butyl ether	0.000960	U	0.000960	0.00200
m,p-Xylene	0.000560	U	0.000560	0.00400
Naphthalene	0.00170	U	0.00170	0.00500
n-Butylbenzene	0.000980	U	0.000980	0.00200
N-Propylbenzene	0.000670	U	0.000670	0.00200
o-Chlorotoluene	0.000890	U	0.000890	0.00200
o-Xylene	0.000670	U	0.000670	0.00200

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Method Blank - Batch: 490-394890

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-394890/7	Analysis Batch:	490-394890	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121616-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/16/2016 1248	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.000840	U	0.000840	0.00200
p-Isopropyltoluene	0.000670	U	0.000670	0.00200
sec-Butylbenzene	0.000670	U	0.000670	0.00200
Styrene	0.00110	U	0.00110	0.00200
tert-Butylbenzene	0.000900	U	0.000900	0.00200
1,1,1,2-Tetrachloroethane	0.000670	U	0.000670	0.00200
1,1,2,2-Tetrachloroethane	0.00100	U	0.00100	0.00200
Tetrachloroethene	0.000730	U	0.000730	0.00200
Toluene	0.000740	U	0.000740	0.00200
trans-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
trans-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
1,2,3-Trichlorobenzene	0.000380	U	0.000380	0.00200
1,2,4-Trichlorobenzene	0.000670	U	0.000670	0.00200
1,1,1-Trichloroethane	0.000920	U	0.000920	0.00200
1,1,2-Trichloroethane	0.00140	U	0.00140	0.00500
Trichloroethene	0.000960	U	0.000960	0.00200
Trichlorofluoromethane	0.00100	U	0.00100	0.00200
1,2,3-Trichloropropane	0.000550	U	0.000550	0.00200
1,2,4-Trimethylbenzene	0.00100	U	0.00100	0.00200
1,3,5-Trimethylbenzene	0.000750	U	0.000750	0.00200
Vinyl acetate	0.00440	U	0.00440	0.0200
Vinyl chloride	0.00110	U	0.00110	0.00200
Xylenes (total)	0.00123	U	0.00123	0.00600

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	90	70 - 130
Dibromofluoromethane (Surr)	100	70 - 130
1,2-Dichloroethane-d4 (Surr)	96	70 - 130
Toluene-d8 (Surr)	95	70 - 130

Method Blank TICs- Batch: 490-394890

Cas Number	Analyte	RT	Est. Result (mg	Qual
	Tentatively Identified Compound		None	

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-394890

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-394890/3	Analysis Batch:	490-394890	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121616-03.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/16/2016 1045	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-394890/4	Analysis Batch:	490-394890	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121616-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/16/2016 1116	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	79	90	45 - 145	13	38		
Benzene	101	101	70 - 130	1	37		
Bromobenzene	86	85	67 - 130	1	40		
Bromochloromethane	109	113	70 - 133	4	15		
Bromodichloromethane	99	102	70 - 130	3	20		
Bromoform	104	108	59 - 137	4	17		
Bromomethane	98	95	32 - 150	3	45		
2-Butanone (MEK)	95	105	50 - 149	10	39		
Carbon disulfide	95	89	66 - 138	6	41		
Carbon tetrachloride	107	109	70 - 131	2	41		
Chlorobenzene	103	101	70 - 130	2	40		
Chloroethane	85	84	37 - 150	1	50		
Chloroform	98	100	70 - 130	2	15		
Chloromethane	69	68	53 - 150	1	47		
cis-1,2-Dichloroethene	105	105	70 - 132	0	18		
cis-1,3-Dichloropropene	92	94	70 - 130	2	42		
Dibromochloromethane	99	102	70 - 130	3	14		
1,2-Dibromo-3-chloropropane	94	103	47 - 144	9	38		
1,2-Dibromoethane	96	101	69 - 130	5	17		
1,2-Dichlorobenzene	106	106	70 - 134	0	40		
1,3-Dichlorobenzene	108	106	69 - 137	2	41		
1,4-Dichlorobenzene	108	106	66 - 134	2	41		
Dichlorodifluoromethane	102	105	32 - 150	2	50		
1,1-Dichloroethane	93	94	70 - 130	1	42		
1,2-Dichloroethane	97	101	65 - 134	5	16		
1,1-Dichloroethene	104	103	70 - 131	2	43		
1,2-Dichloropropane	89	91	70 - 130	2	15		
1,3-Dichloropropane	89	92	70 - 130	3	15		
2,2-Dichloropropane	111	110	57 - 150	1	42		
1,1-Dichloropropene	98	99	70 - 130	1	41		
Ethylbenzene	99	97	70 - 130	2	38		
Hexachlorobutadiene	93	91	64 - 137	2	44		
2-Hexanone	87	95	47 - 148	9	38		
Isopropylbenzene	104	103	70 - 130	2	39		
Methylene bromide	98	105	70 - 130	6	19		

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-394890

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-394890/3	Analysis Batch:	490-394890	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121616-03.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/16/2016 1045	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-394890/4	Analysis Batch:	490-394890	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	121616-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/16/2016 1116	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	96	98	69 - 130	2	19		
4-Methyl-2-pentanone (MIBK)	84	92	48 - 150	9	41		
Methyl tert butyl ether	105	113	54 - 145	7	36		
m,p-Xylene	100	97	70 - 130	3	38		
Naphthalene	98	106	55 - 149	8	37		
n-Butylbenzene	97	94	57 - 150	4	39		
N-Propylbenzene	95	92	62 - 150	3	38		
o-Chlorotoluene	96	94	70 - 132	2	41		
o-Xylene	99	98	70 - 130	1	38		
p-Chlorotoluene	96	91	67 - 135	5	41		
p-Isopropyltoluene	101	98	66 - 147	3	38		
sec-Butylbenzene	99	95	68 - 147	4	38		
Styrene	104	103	70 - 131	0	40		
tert-Butylbenzene	94	89	70 - 138	5	38		
1,1,1,2-Tetrachloroethane	103	103	70 - 130	0	41		
1,1,2,2-Tetrachloroethane	84	90	61 - 134	8	16		
Tetrachloroethene	109	107	70 - 130	2	41		
Toluene	95	94	70 - 130	2	40		
trans-1,2-Dichloroethene	92	94	70 - 130	2	41		
trans-1,3-Dichloropropene	94	97	67 - 130	2	41		
1,2,3-Trichlorobenzene	108	111	57 - 146	2	42		
1,2,4-Trichlorobenzene	108	107	47 - 150	1	43		
1,1,1-Trichloroethane	104	105	70 - 130	1	41		
1,1,2-Trichloroethane	88	91	70 - 130	3	17		
Trichloroethene	107	110	70 - 130	3	41		
Trichlorofluoromethane	100	99	53 - 150	2	49		
1,2,3-Trichloropropane	87	93	60 - 139	7	16		
1,2,4-Trimethylbenzene	101	97	70 - 140	4	38		
1,3,5-Trimethylbenzene	102	100	69 - 141	2	38		
Vinyl acetate	170	169	10 - 150	1	50	*	*
Vinyl chloride	85	86	63 - 150	2	46		
Xylenes (total)	100	98	70 - 130	2	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	84	86	70 - 130
Dibromofluoromethane (Surr)	98	102	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94	101	70 - 130
Toluene-d8 (Surr)	94	93	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Method Blank - Batch: 490-396079

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-396079/8	Analysis Batch:	490-396079	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	122116-09.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/21/2016 1421	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	0.00840	U	0.00840	0.0500
Benzene	0.000670	U	0.000670	0.00200
Bromobenzene	0.000720	U	0.000720	0.00200
Bromochloromethane	0.000550	U	0.000550	0.00200
Bromodichloromethane	0.000550	U	0.000550	0.00200
Bromoform	0.000550	U	0.000550	0.00200
Bromomethane	0.00120	U	0.00120	0.00200
2-Butanone (MEK)	0.00510	U	0.00510	0.0500
Carbon disulfide	0.00360	U	0.00360	0.00500
Carbon tetrachloride	0.000670	U	0.000670	0.00200
Chlorobenzene	0.000670	U	0.000670	0.00200
Chloroethane	0.00190	U	0.00190	0.00500
Chloroform	0.000670	U	0.000670	0.00200
Chloromethane	0.000670	U	0.000670	0.00200
cis-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
cis-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
Dibromochloromethane	0.000340	U	0.000340	0.00200
1,2-Dibromo-3-chloropropane	0.000700	U	0.000700	0.00500
1,2-Dibromoethane	0.00100	U	0.00100	0.00200
1,2-Dichlorobenzene	0.000340	U	0.000340	0.00200
1,3-Dichlorobenzene	0.000670	U	0.000670	0.00200
1,4-Dichlorobenzene	0.000670	U	0.000670	0.00200
Dichlorodifluoromethane	0.00100	U	0.00100	0.00200
1,1-Dichloroethane	0.000670	U	0.000670	0.00200
1,2-Dichloroethane	0.000670	U	0.000670	0.00200
1,1-Dichloroethene	0.000570	U	0.000570	0.00200
1,2-Dichloropropane	0.000940	U	0.000940	0.00200
1,3-Dichloropropane	0.000940	U	0.000940	0.00200
2,2-Dichloropropane	0.000670	U	0.000670	0.00200
1,1-Dichloropropene	0.000510	U	0.000510	0.00200
Ethylbenzene	0.000670	U	0.000670	0.00200
Hexachlorobutadiene	0.00114	U	0.00114	0.00500
2-Hexanone	0.0167	U	0.0167	0.0500
Iodomethane	0.00670	U	0.00670	0.0200
Isopropylbenzene	0.000410	U	0.000410	0.00200
Methylene bromide	0.000560	U	0.000560	0.00200
Methylene Chloride	0.000860	U	0.000860	0.0100
4-Methyl-2-pentanone (MIBK)	0.00190	U	0.00190	0.0500
Methyl tert butyl ether	0.000960	U	0.000960	0.00200
m,p-Xylene	0.000560	U	0.000560	0.00400
Naphthalene	0.00170	U	0.00170	0.00500
n-Butylbenzene	0.000980	U	0.000980	0.00200
N-Propylbenzene	0.000670	U	0.000670	0.00200
o-Chlorotoluene	0.000890	U	0.000890	0.00200
o-Xylene	0.000670	U	0.000670	0.00200

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Method Blank - Batch: 490-396079

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 490-396079/8	Analysis Batch:	490-396079	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	122116-09.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/21/2016 1421	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
p-Chlorotoluene	0.000840	U	0.000840	0.00200
p-Isopropyltoluene	0.000670	U	0.000670	0.00200
sec-Butylbenzene	0.000670	U	0.000670	0.00200
Styrene	0.00110	U	0.00110	0.00200
tert-Butylbenzene	0.000900	U	0.000900	0.00200
1,1,1,2-Tetrachloroethane	0.000670	U	0.000670	0.00200
1,1,2,2-Tetrachloroethane	0.00100	U	0.00100	0.00200
Tetrachloroethene	0.000730	U	0.000730	0.00200
Toluene	0.000740	U	0.000740	0.00200
trans-1,2-Dichloroethene	0.000670	U	0.000670	0.00200
trans-1,3-Dichloropropene	0.000670	U	0.000670	0.00200
1,2,3-Trichlorobenzene	0.000380	U	0.000380	0.00200
1,2,4-Trichlorobenzene	0.000670	U	0.000670	0.00200
1,1,1-Trichloroethane	0.000920	U	0.000920	0.00200
1,1,2-Trichloroethane	0.00140	U	0.00140	0.00500
Trichloroethene	0.000960	U	0.000960	0.00200
Trichlorofluoromethane	0.00100	U	0.00100	0.00200
1,2,3-Trichloropropane	0.000550	U	0.000550	0.00200
1,2,4-Trimethylbenzene	0.00100	U	0.00100	0.00200
1,3,5-Trimethylbenzene	0.000750	U	0.000750	0.00200
Vinyl acetate	0.00440	U	0.00440	0.0200
Vinyl chloride	0.00110	U	0.00110	0.00200
Xylenes (total)	0.00123	U	0.00123	0.00600

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	93	70 - 130
Dibromofluoromethane (Surr)	101	70 - 130
1,2-Dichloroethane-d4 (Surr)	94	70 - 130
Toluene-d8 (Surr)	93	70 - 130

Method Blank TICs- Batch: 490-396079

Cas Number	Analyte	RT	Est. Result (mg	Qual
91-57-6	2-Methylnaphthalene	12.59	0.002167	J

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-396079

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-396079/5	Analysis Batch:	490-396079	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	122116-06.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/21/2016 1248	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-396079/6	Analysis Batch:	490-396079	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	122116-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/21/2016 1319	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	71	74	45 - 145	4	38		
Benzene	101	103	70 - 130	2	37		
Bromobenzene	88	88	67 - 130	1	40		
Bromochloromethane	100	100	70 - 133	0	15		
Bromodichloromethane	100	101	70 - 130	1	20		
Bromoform	90	92	59 - 137	2	17		
Bromomethane	104	107	32 - 150	2	45		
2-Butanone (MEK)	75	77	50 - 149	3	39		
Carbon disulfide	96	96	66 - 138	0	41		
Carbon tetrachloride	108	111	70 - 131	3	41		
Chlorobenzene	99	101	70 - 130	2	40		
Chloroethane	95	96	37 - 150	2	50		
Chloroform	98	100	70 - 130	2	15		
Chloromethane	81	80	53 - 150	0	47		
cis-1,2-Dichloroethene	104	106	70 - 132	2	18		
cis-1,3-Dichloropropene	87	90	70 - 130	4	42		
Dibromochloromethane	91	95	70 - 130	4	14		
1,2-Dibromo-3-chloropropane	65	66	47 - 144	1	38		
1,2-Dibromoethane	85	85	69 - 130	0	17		
1,2-Dichlorobenzene	101	104	70 - 134	2	40		
1,3-Dichlorobenzene	107	107	69 - 137	0	41		
1,4-Dichlorobenzene	106	107	66 - 134	0	41		
Dichlorodifluoromethane	96	100	32 - 150	4	50		
1,1-Dichloroethane	97	97	70 - 130	1	42		
1,2-Dichloroethane	91	93	65 - 134	2	16		
1,1-Dichloroethene	105	108	70 - 131	3	43		
1,2-Dichloropropane	92	94	70 - 130	2	15		
1,3-Dichloropropane	82	83	70 - 130	2	15		
2,2-Dichloropropane	113	113	57 - 150	0	42		
1,1-Dichloropropene	99	100	70 - 130	1	41		
Ethylbenzene	98	100	70 - 130	3	38		
Hexachlorobutadiene	88	88	64 - 137	0	44		
2-Hexanone	65	66	47 - 148	2	38		
Isopropylbenzene	101	104	70 - 130	2	39		
Methylene bromide	90	93	70 - 130	3	19		

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-396079

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 490-396079/5	Analysis Batch:	490-396079	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	122116-06.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/21/2016 1248	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-396079/6	Analysis Batch:	490-396079	Instrument ID:	HP67
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	122116-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/21/2016 1319	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Chloride	102	106	69 - 130	4	19		
4-Methyl-2-pentanone (MIBK)	65	64	48 - 150	0	41		
Methyl tert butyl ether	96	96	54 - 145	0	36		
m,p-Xylene	101	101	70 - 130	0	38		
Naphthalene	72	70	55 - 149	3	37		
n-Butylbenzene	94	100	57 - 150	6	39		
N-Propylbenzene	98	99	62 - 150	2	38		
o-Chlorotoluene	102	105	70 - 132	2	41		
o-Xylene	100	101	70 - 130	1	38		
p-Chlorotoluene	100	103	67 - 135	3	41		
p-Isopropyltoluene	101	102	66 - 147	0	38		
sec-Butylbenzene	101	101	68 - 147	0	38		
Styrene	101	101	70 - 131	0	40		
tert-Butylbenzene	93	96	70 - 138	3	38		
1,1,1,2-Tetrachloroethane	103	104	70 - 130	1	41		
1,1,2,2-Tetrachloroethane	78	75	61 - 134	3	16		
Tetrachloroethene	106	108	70 - 130	2	41		
Toluene	95	97	70 - 130	2	40		
trans-1,2-Dichloroethene	96	97	70 - 130	1	41		
trans-1,3-Dichloropropene	88	89	67 - 130	2	41		
1,2,3-Trichlorobenzene	94	91	57 - 146	3	42		
1,2,4-Trichlorobenzene	90	88	47 - 150	2	43		
1,1,1-Trichloroethane	105	107	70 - 130	2	41		
1,1,2-Trichloroethane	80	82	70 - 130	3	17		
Trichloroethene	104	105	70 - 130	1	41		
Trichlorofluoromethane	112	110	53 - 150	3	49		
1,2,3-Trichloropropane	76	78	60 - 139	2	16		
1,2,4-Trimethylbenzene	103	99	70 - 140	4	38		
1,3,5-Trimethylbenzene	103	107	69 - 141	3	38		
Vinyl acetate	168	172	10 - 150	3	50	*	*
Vinyl chloride	91	92	63 - 150	2	46		
Xylenes (total)	101	101	70 - 130	1	38		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	91	92	70 - 130
Dibromofluoromethane (Surr)	97	98	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92	90	70 - 130
Toluene-d8 (Surr)	92	94	70 - 130

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Method Blank - Batch: 490-394683

Method: 8270D
Preparation: 3550C

Lab Sample ID:	MB 490-394683/1-A	Analysis Batch:	490-394971	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-394683	Lab File ID:	121616-030.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/16/2016 2120	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	0.0320	U	0.0320	0.0670
Acenaphthylene	0.0290	U	0.0290	0.0670
Aniline	0.253	U	0.253	0.670
Anthracene	0.0290	U	0.0290	0.0670
Benzidine	0.204	U	0.204	0.333
Benzo(a)anthracene	0.0300	U	0.0300	0.0670
Benzo(a)pyrene	0.0270	U	0.0270	0.0670
Benzo(b)fluoranthene	0.0280	U	0.0280	0.0670
Benzo(g,h,i)perylene	0.0330	U	0.0330	0.0670
Benzoic acid	0.0600	U	0.0600	0.333
Benzo(k)fluoranthene	0.0270	U	0.0270	0.0670
Benzyl alcohol	0.194	U	0.194	0.333
Bis(2-chloroethoxy)methane	0.200	U	0.200	0.333
Bis(2-chloroethyl)ether	0.213	U	0.213	0.333
bis (2-chloroisopropyl) ether	0.198	U	0.198	0.333
Bis(2-ethylhexyl)phthalate	0.207	U	0.207	0.333
4-Bromophenyl phenyl ether	0.205	U	0.205	0.333
Butyl benzyl phthalate	0.215	U	0.215	0.333
Carbazole	0.207	U	0.207	0.333
4-Chloroaniline	0.227	U	0.227	0.333
4-Chloro-3-methylphenol	0.168	U	0.168	0.333
2-Chloronaphthalene	0.209	U	0.209	0.333
2-Chlorophenol	0.191	U	0.191	0.333
4-Chlorophenyl phenyl ether	0.201	U	0.201	0.333
Chrysene	0.0370	U	0.0370	0.0670
Dibenzo(a,h)anthracene	0.0320	U	0.0320	0.0670
Dibenzofuran	0.210	U	0.210	0.333
1,2-Dichlorobenzene	0.190	U	0.190	0.333
1,3-Dichlorobenzene	0.190	U	0.190	0.333
1,4-Dichlorobenzene	0.196	U	0.196	0.333
3,3'-Dichlorobenzidine	0.204	U	0.204	0.670
2,4-Dichlorophenol	0.175	U	0.175	0.333
Diethyl phthalate	0.212	U	0.212	0.333
2,4-Dimethylphenol	0.335	U	0.335	0.670
Dimethyl phthalate	0.207	U	0.207	0.333
Di-n-butyl phthalate	0.211	U	0.211	0.333
4,6-Dinitro-o-cresol	0.229	U	0.229	0.333
2,4-Dinitrophenol	0.251	U	0.251	0.333
2,4-Dinitrotoluene	0.208	U	0.208	0.333
2,6-Dinitrotoluene	0.223	U	0.223	0.333
Di-n-octyl phthalate	0.178	U	0.178	0.333
1,2-Diphenylhydrazine (as Azobenzene)	0.234	U	0.234	0.333
Fluoranthene	0.0340	U	0.0340	0.0670
Fluorene	0.0290	U	0.0290	0.0670
Hexachlorobenzene	0.250	U	0.250	0.333

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Method Blank - Batch: 490-394683

Method: 8270D
Preparation: 3550C

Lab Sample ID:	MB 490-394683/1-A	Analysis Batch:	490-394971	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-394683	Lab File ID:	121616-030.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/16/2016 2120	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Hexachlorobutadiene	0.167	U	0.167	0.333
Hexachlorocyclopentadiene	0.150	U	0.150	0.333
Hexachloroethane	0.181	U	0.181	0.333
Ideno(1,2,3-cd)pyrene	0.0290	U	0.0290	0.0670
Isophorone	0.188	U	0.188	0.333
1-Methylnaphthalene	0.0280	U	0.0280	0.0670
2-Methylnaphthalene	0.0260	U	0.0260	0.0670
Naphthalene	0.0290	U	0.0290	0.0670
2-Nitroaniline	0.207	U	0.207	0.333
3-Nitroaniline	0.230	U	0.230	0.670
4-Nitroaniline	0.238	U	0.238	0.670
Nitrobenzene	0.201	U	0.201	0.333
2-Nitrophenol	0.243	U	0.243	0.333
4-Nitrophenol	0.382	U	0.382	0.670
N-Nitrosodimethylamine	0.0200	U	0.0200	0.333
N-Nitrosodi-n-propylamine	0.194	U	0.194	0.333
N-Nitrosodiphenylamine	0.0530	U	0.0530	0.333
Pentachlorophenol	0.266	U	0.266	0.670
Phenanthrene	0.0340	U	0.0340	0.0670
Phenol	0.203	U	0.203	0.333
Pyrene	0.0340	U	0.0340	0.0670
Pyridine	0.199	U	0.199	0.670
1,2,4-Trichlorobenzene	0.181	U	0.181	0.333
2,4,5-Trichlorophenol	0.218	U	0.218	0.333
2,4,6-Trichlorophenol	0.192	U	0.192	0.333

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	83	29 - 120
2-Fluorophenol (Surr)	60	10 - 120
Nitrobenzene-d5 (Surr)	85	27 - 120
Phenol-d5 (Surr)	64	10 - 120
Terphenyl-d14 (Surr)	92	13 - 120
2,4,6-Tribromophenol (Surr)	54	10 - 120

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-394683

Method: 8270D
Preparation: 3550C

LCS Lab Sample ID:	LCS 490-394683/2-A	Analysis Batch:	490-394971	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-394683	Lab File ID:	121616-031.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/16/2016 2139	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-394683/3-A	Analysis Batch:	490-394971	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-394683	Lab File ID:	121616-032.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/16/2016 2158	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acenaphthene	77	80	36 - 120	4	50		
Acenaphthylene	75	75	38 - 120	0	50		
Aniline	73	71	10 - 150	2	50		
Anthracene	81	80	46 - 124	1	49		
Benzidine	14	18	10 - 150	20	50	J	J
Benzo(a)anthracene	82	82	45 - 120	0	50		
Benzo(a)pyrene	77	81	45 - 120	5	50		
Benzo(b)fluoranthene	82	83	42 - 120	2	50		
Benzo(g,h,i)perylene	90	88	38 - 120	2	50		
Benzoic acid	44	40	10 - 150	9	50		
Benzo(k)fluoranthene	84	86	42 - 120	3	45		
Benzyl alcohol	75	73	43 - 131	4	50		
Bis(2-chloroethoxy)methane	69	69	32 - 120	0	50		
Bis(2-chloroethyl)ether	85	85	31 - 120	1	50		
bis (2-chloroisopropyl) ether	66	68	32 - 120	2	50		
Bis(2-ethylhexyl)phthalate	80	79	43 - 120	1	50		
4-Bromophenyl phenyl ether	79	78	40 - 120	1	37		
Butyl benzyl phthalate	79	83	43 - 133	5	50		
Carbazole	77	78	44 - 120	2	46		
4-Chloroaniline	77	77	35 - 120	0	50		
4-Chloro-3-methylphenol	78	85	38 - 120	9	49		
2-Chloronaphthalene	75	77	34 - 120	3	50		
2-Chlorophenol	73	74	32 - 120	2	50		
4-Chlorophenyl phenyl ether	80	87	42 - 120	8	50		
Chrysene	83	83	43 - 120	0	49		
Dibenzo(a,h)anthracene	87	81	32 - 128	6	50		
Dibenzofuran	75	82	41 - 120	9	50		
1,2-Dichlorobenzene	76	75	33 - 120	2	50		
1,3-Dichlorobenzene	72	72	32 - 120	1	50		
1,4-Dichlorobenzene	72	74	32 - 120	2	50		
3,3'-Dichlorobenzidine	68	69	39 - 120	2	50		
2,4-Dichlorophenol	78	78	32 - 120	0	50		
Diethyl phthalate	79	87	41 - 122	9	45		
2,4-Dimethylphenol	76	78	32 - 120	3	50		
Dimethyl phthalate	77	80	55 - 120	4	46		

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-394683

Method: 8270D
Preparation: 3550C

LCS Lab Sample ID:	LCS 490-394683/2-A	Analysis Batch:	490-394971	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-394683	Lab File ID:	121616-031.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/16/2016 2139	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-394683/3-A	Analysis Batch:	490-394971	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-394683	Lab File ID:	121616-032.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/16/2016 2158	Units:	mg/Kg	Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Di-n-butyl phthalate	81	79	46 - 127	2	49		
4,6-Dinitro-o-cresol	48	51	27 - 134	5	50		
2,4-Dinitrophenol	32	35	10 - 142	8	50		
2,4-Dinitrotoluene	79	88	43 - 120	11	50		
2,6-Dinitrotoluene	78	82	43 - 120	5	50		
Di-n-octyl phthalate	83	81	40 - 130	2	50		
1,2-Diphenylhydrazine (as Azobenzene)	81	87	10 - 150	8	50		
Fluoranthene	82	82	46 - 120	1	50		
Fluorene	77	83	42 - 120	8	50		
Hexachlorobenzene	86	89	44 - 120	3	50		
Hexachlorobutadiene	81	80	31 - 120	1	50		
Hexachlorocyclopentadiene	14	14	24 - 120	3	50	J *	J *
Hexachloroethane	73	75	33 - 120	3	50		
Ideno(1,2,3-cd)pyrene	83	79	41 - 121	5	50		
Isophorone	71	73	33 - 120	2	50		
1-Methylnaphthalene	73	76	32 - 120	4	50		
2-Methylnaphthalene	70	76	28 - 120	8	50		
Naphthalene	73	72	32 - 120	1	50		
2-Nitroaniline	80	89	40 - 120	10	50		
3-Nitroaniline	72	73	42 - 120	1	49		
4-Nitroaniline	73	78	43 - 120	7	49		
Nitrobenzene	75	78	26 - 120	3	50		
2-Nitrophenol	72	75	29 - 120	4	50		
4-Nitrophenol	148	164	32 - 136	10	45	*	*
N-Nitrosodimethylamine	60	64	10 - 150	6	50		
N-Nitrosodi-n-propylamine	71	71	35 - 120	1	50		
N-Nitrosodiphenylamine	91	91	52 - 140	0	50		
Pentachlorophenol	57	59	44 - 134	5	50		
Phenanthrene	81	80	45 - 120	1	50		
Phenol	75	72	30 - 120	4	50		
Pyrene	83	87	43 - 120	4	50		
Pyridine	71	74	20 - 120	4	50		
1,2,4-Trichlorobenzene	74	75	29 - 120	1	50		
2,4,5-Trichlorophenol	83	88	39 - 120	5	50		
2,4,6-Trichlorophenol	75	81	39 - 120	8	50		

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	74	79	29 - 120
2-Fluorophenol (Surr)	69	72	10 - 120
Nitrobenzene-d5 (Surr)	73	77	27 - 120
Phenol-d5 (Surr)	75	75	10 - 120
Terphenyl-d14 (Surr)	85	88	13 - 120
2,4,6-Tribromophenol (Surr)	82	84	10 - 120

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-394683

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-118160-1	Analysis Batch:	490-395971	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-394683	Lab File ID:	122016-11.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	30.18 g
Analysis Date:	12/20/2016 2157			Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-118160-1	Analysis Batch:	490-395625	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-394683	Lab File ID:	121916-031.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	30.05 g
Analysis Date:	12/20/2016 0331			Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	93	71	19 - 120	26	50		
Acenaphthylene	86	67	25 - 120	24	50		
Aniline	0	0	10 - 200	NC	50	U *	U *
Anthracene	83	70	28 - 125	17	49		
Benzidine	0	0	5 - 200	NC	50	U *	U *
Benzo(a)anthracene	104	71	23 - 120	37	50		
Benzo(a)pyrene	91	70	15 - 128	26	50		
Benzo(b)fluoranthene	85	72	12 - 133	15	50		
Benzo(g,h,i)perylene	110	78	22 - 120	33	50		
Benzoic acid	55	62	10 - 200	12	50	J	J
Benzo(k)fluoranthene	90	73	28 - 120	21	45		
Benzyl alcohol	64	0	10 - 200	NC	50	J	U *
Bis(2-chloroethoxy)methane	65	0	24 - 120	NC	50	J	U *
Bis(2-chloroethyl)ether	0	0	22 - 120	NC	50	U *	U *
bis (2-chloroisopropyl) ether	0	0	20 - 120	NC	50	U *	U *
Bis(2-ethylhexyl)phthalate	77	66	26 - 120	14	50	J	J
4-Bromophenyl phenyl ether	83	68	31 - 120	19	37	J	J
Butyl benzyl phthalate	76	66	24 - 133	13	50	J	J
Carbazole	78	72	25 - 123	8	46	J	J
4-Chloroaniline	0	0	26 - 120	NC	50	U *	U *
4-Chloro-3-methylphenol	75	73	21 - 120	1	49	J	J
2-Chloronaphthalene	87	70	24 - 120	21	50	J	J
2-Chlorophenol	61	0	25 - 120	NC	50	J	U *
4-Chlorophenyl phenyl ether	93	73	26 - 120	24	50	J	J
Chrysene	112	75	20 - 120	39	49		
Dibenzo(a,h)anthracene	95	75	12 - 128	23	50		
Dibenzofuran	92	68	21 - 120	29	50	J	J
1,2-Dichlorobenzene	63	58	10 - 120	9	50	J	J
1,3-Dichlorobenzene	60	0	10 - 120	NC	50	J	U *
1,4-Dichlorobenzene	62	60	10 - 120	3	50	J	J
3,3'-Dichlorobenzidine	0	0	10 - 120	NC	50	U *	U *
2,4-Dichlorophenol	78	69	17 - 120	11	50	J	J

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-394683

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-118160-1	Analysis Batch:	490-395971	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-394683	Lab File ID:	122016-11.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	30.18 g
Analysis Date:	12/20/2016 2157			Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-118160-1	Analysis Batch:	490-395625	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-394683	Lab File ID:	121916-031.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	30.05 g
Analysis Date:	12/20/2016 0331			Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Diethyl phthalate	82	71	29 - 122	15	45	J	J
2,4-Dimethylphenol	NC	NC	17 - 120	NC	50	U	U
Dimethyl phthalate	82	65	30 - 120	24	46	J	J
Di-n-butyl phthalate	77	71	29 - 126	8	49	J	J
4,6-Dinitro-o-cresol	42	0	10 - 134	NC	50	J	U *
2,4-Dinitrophenol	47	0	10 - 150	NC	50	J	U *
2,4-Dinitrotoluene	92	73	24 - 121	22	50	J	J
2,6-Dinitrotoluene	92	0	24 - 120	NC	50	J	U *
Di-n-octyl phthalate	0	69	27 - 130	NC	50	U *	J
1,2-Diphenylhydrazine (as Azobenzene)	77	71	10 - 200	7	50	J	J
Fluoranthene	90	76	10 - 143	16	50		
Fluorene	97	69	20 - 120	33	50		
Hexachlorobenzene	89	0	25 - 120	NC	50	J	U *
Hexachlorobutadiene	74	70	10 - 120	5	50	J	J
Hexachlorocyclopentadiene	0	0	10 - 120	NC	50	U *	U *
Hexachloroethane	61	59	10 - 120	3	50	J	J
Ideno(1,2,3-cd)pyrene	91	72	22 - 121	23	50		
Isophorone	65	60	24 - 120	8	50	J	J
1-Methylnaphthalene	88	65	10 - 120	30	50		
2-Methylnaphthalene	85	71	13 - 120	17	50		
Naphthalene	71	65	10 - 120	8	50		
2-Nitroaniline	74	78	31 - 120	5	50	J	J
3-Nitroaniline	75	0	31 - 120	NC	49	J	U *
4-Nitroaniline	76	0	28 - 120	NC	49	J	U *
Nitrobenzene	62	63	19 - 120	2	50	J	J
2-Nitrophenol	76	0	23 - 120	NC	50	J	U *
4-Nitrophenol	79	140	16 - 139	56	45	J	*
N-Nitrosodimethylamine	39	45	10 - 200	16	50	J	J
N-Nitrosodi-n-propylamine	66	0	24 - 120	NC	50	J	U *
N-Nitrosodiphenylamine	138	80	26 - 150	53	50		J *
Pentachlorophenol	83	63	19 - 145	27	50	J	J
Phenanthrene	128	78	21 - 122	48	50	*	

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-394683

Method: 8270D
Preparation: 3550C

MS Lab Sample ID:	490-118160-1	Analysis Batch:	490-395971	Instrument ID:	HP26
Client Matrix:	Solid	Prep Batch:	490-394683	Lab File ID:	122016-11.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	30.18 g
Analysis Date:	12/20/2016 2157			Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-118160-1	Analysis Batch:	490-395625	Instrument ID:	HP91
Client Matrix:	Solid	Prep Batch:	490-394683	Lab File ID:	121916-031.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	30.05 g
Analysis Date:	12/20/2016 0331			Final Weight/Volume:	1.00 mL
Prep Date:	12/15/2016 1359			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Phenol	0	0	15 - 120	NC	50	U *	U *
Pyrene	108	72	20 - 123	40	50		
Pyridine	0	0	10 - 200	NC	50	U *	U *
1,2,4-Trichlorobenzene	74	61	14 - 120	20	50	J	J
2,4,5-Trichlorophenol	96	89	27 - 120	7	50	J	J
2,4,6-Trichlorophenol	87	75	24 - 122	15	50	J	J

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	85	69	29 - 120
2-Fluorophenol (Surr)	52	49	10 - 120
Nitrobenzene-d5 (Surr)	68	65	27 - 120
Phenol-d5 (Surr)	62	53	10 - 120
Terphenyl-d14 (Surr)	84	65	13 - 120
2,4,6-Tribromophenol (Surr)	91	73	10 - 120

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Method Blank - Batch: 490-395063

Method: 6010C
Preparation: 3051A

Lab Sample ID:	MB 490-395063/1-A	Analysis Batch:	490-395738	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-395063	Lab File ID:	TALS_121916-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.511 g
Analysis Date:	12/19/2016 1452	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/16/2016 1458				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	9.78	U	9.78	19.6
Antimony	0.978	U	0.978	9.78
Arsenic	1.17	U	1.17	1.96
Barium	0.978	U	0.978	1.96
Beryllium	0.196	U	0.196	0.978
Cadmium	0.0978	U	0.0978	0.978
Calcium	97.8	U	97.8	196
Chromium	0.881	U	0.881	0.978
Cobalt	0.978	U	0.978	1.96
Copper	1.08	U	1.08	1.96
Iron	19.6	U	19.6	39.1
Lead	0.489	U	0.489	0.978
Magnesium	97.8	U	97.8	196
Manganese	0.978	U	0.978	2.94
Nickel	0.587	U	0.587	1.96
Potassium	97.8	U	97.8	196
Selenium	1.08	U	1.08	1.96
Silver	0.391	U	0.391	0.978
Sodium	127	U	127	196
Thallium	0.587	U	0.587	1.96
Vanadium	1.96	U	1.96	9.78
Zinc	4.89	U	4.89	9.78

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-395063

Method: 6010C
Preparation: 3051A

LCS Lab Sample ID:	LCS 490-395063/2-A	Analysis Batch:	490-395738	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-395063	Lab File ID:	TALS_121916-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.518 g
Analysis Date:	12/19/2016 1457	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/16/2016 1458				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-395063/3-A	Analysis Batch:	490-395738	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-395063	Lab File ID:	TALS_121916-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.496 g
Analysis Date:	12/19/2016 1513	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/16/2016 1458				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Aluminum	91	87	80 - 120	1	20		
Antimony	92	86	80 - 120	2	20		
Arsenic	86	83	80 - 120	1	20		
Barium	92	86	80 - 120	2	20		
Beryllium	90	84	80 - 120	2	20		
Cadmium	93	87	80 - 120	2	20		
Calcium	90	84	80 - 120	2	20		
Chromium	92	86	80 - 120	2	20		
Cobalt	95	89	80 - 120	2	20		
Copper	91	86	80 - 120	1	20		
Iron	92	87	80 - 120	1	20		
Lead	96	91	80 - 120	1	20		
Magnesium	92	87	80 - 120	2	20		
Manganese	92	86	80 - 120	2	20		
Nickel	96	90	80 - 120	2	20		
Potassium	94	89	80 - 120	2	20		
Selenium	88	85	80 - 120	1	20		
Sodium	95	89	80 - 120	2	20		
Thallium	97	91	80 - 120	2	20		
Vanadium	91	86	80 - 120	2	20		
Zinc	91	85	80 - 120	2	20		

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-395063

Method: 6010C
Preparation: 3051A

LCS Lab Sample ID:	LCS 490-395063/16-A	Analysis Batch:	490-395738	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-395063	Lab File ID:	TALS_121916-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.514 g
Analysis Date:	12/19/2016 1518	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/16/2016 1458				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-395063/17-A	Analysis Batch:	490-395738	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-395063	Lab File ID:	TALS_121916-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.507 g
Analysis Date:	12/19/2016 1523	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/16/2016 1458				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Silver	87	84	80 - 120	2	20		

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-395063

Method: 6010C
Preparation: 3051A

MS Lab Sample ID:	490-118160-1	Analysis Batch:	490-395738	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-395063	Lab File ID:	TALS_121916-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.501 g
Analysis Date:	12/19/2016 1544			Final Weight/Volume:	100 mL
Prep Date:	12/16/2016 1458				
Leach Date:	N/A				

MSD Lab Sample ID:	490-118160-1	Analysis Batch:	490-395738	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	490-395063	Lab File ID:	TALS_121916-4B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.495 g
Analysis Date:	12/19/2016 1549			Final Weight/Volume:	100 mL
Prep Date:	12/16/2016 1458				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aluminum	225	279	75 - 125	4	20	4	4
Antimony	79	80	75 - 125	3	20		
Arsenic	78	86	75 - 125	7	20		
Barium	79	82	75 - 125	4	20		
Beryllium	80	82	75 - 125	3	20		
Cadmium	79	81	75 - 125	3	20		
Calcium	64	85	75 - 125	18	20	N	
Chromium	80	83	75 - 125	4	20		
Cobalt	81	83	75 - 125	3	20		
Copper	83	84	75 - 125	2	20		
Iron	-246	-351	75 - 125	3	20	4	4
Lead	60	73	75 - 125	8	20	N	N
Magnesium	76	84	75 - 125	4	20		
Manganese	52	84	75 - 125	18	20	N	
Nickel	81	82	75 - 125	2	20		
Potassium	100	113	75 - 125	11	20		
Selenium	79	78	75 - 125	0	20		
Silver	42	44	75 - 125	5	20	N	N
Sodium	85	87	75 - 125	4	20		
Thallium	82	84	75 - 125	4	20		
Vanadium	81	83	75 - 125	4	20		
Zinc	76	83	75 - 125	7	20		

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Method Blank - Batch: 490-395548

Method: 6010C
Preparation: 3051A

Lab Sample ID:	MB 490-395548/1-A	Analysis Batch:	490-396401	Instrument ID:	ICP6
Client Matrix:	Solid	Prep Batch:	490-395548	Lab File ID:	TALS_122116-6B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.509 g
Analysis Date:	12/21/2016 2108	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/19/2016 1351				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	9.82	U	9.82	19.6
Antimony	0.982	U	0.982	9.82
Barium	0.982	U	0.982	1.96
Beryllium	0.196	U	0.196	0.982
Cadmium	0.0982	U	0.0982	0.982
Calcium	98.2	U	98.2	196
Chromium	0.884	U	0.884	0.982
Cobalt	0.982	U	0.982	1.96
Copper	1.08	U	1.08	1.96
Iron	19.6	U	19.6	39.3
Magnesium	98.2	U	98.2	196
Manganese	0.982	U	0.982	2.95
Nickel	0.589	U	0.589	1.96
Potassium	98.2	U	98.2	196
Selenium	1.08	U	1.08	1.96
Silver	0.393	U	0.393	0.982
Sodium	128	U	128	196
Thallium	0.589	U	0.589	1.96
Vanadium	1.96	U	1.96	9.82
Zinc	4.91	U	4.91	9.82

Method Blank - Batch: 490-395548

Method: 6010C
Preparation: 3051A

Lab Sample ID:	MB 490-395548/1-A	Analysis Batch:	490-396697	Instrument ID:	ICP6
Client Matrix:	Solid	Prep Batch:	490-395548	Lab File ID:	TALS_122216-6B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.509 g
Analysis Date:	12/22/2016 1434	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/19/2016 1351				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Arsenic	1.18	U	1.18	1.96
Lead	0.491	U	0.491	0.982

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Lab Control Sample - Batch: 490-395548

Method: 6010C
Preparation: 3051A

Lab Sample ID:	LCS 490-395548/2-A	Analysis Batch:	490-396401	Instrument ID:	ICP6
Client Matrix:	Solid	Prep Batch:	490-395548	Lab File ID:	TALS_122116-6B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.496 g
Analysis Date:	12/21/2016 2114	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/19/2016 1351				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	806	789.5	98	80 - 120	
Antimony	40.3	38.57	96	80 - 120	
Barium	806	774.4	96	80 - 120	
Beryllium	20.2	19.56	97	80 - 120	
Cadmium	20.2	19.25	96	80 - 120	
Calcium	2020	1913	95	80 - 120	
Chromium	80.6	80.18	99	80 - 120	
Cobalt	202	192.0	95	80 - 120	
Copper	101	96.43	96	80 - 120	
Iron	403	381.5	95	80 - 120	
Magnesium	2020	1941	96	80 - 120	
Manganese	202	192.6	96	80 - 120	
Nickel	202	191.2	95	80 - 120	
Potassium	2020	2065	102	80 - 120	
Selenium	20.2	19.58	97	80 - 120	
Silver	20.2	19.13	95	80 - 120	
Sodium	2020	2032	101	80 - 120	
Thallium	121	114.3	94	80 - 120	
Vanadium	202	194.9	97	80 - 120	
Zinc	202	187.4	93	80 - 120	

Lab Control Sample - Batch: 490-395548

Method: 6010C
Preparation: 3051A

Lab Sample ID:	LCS 490-395548/2-A	Analysis Batch:	490-396697	Instrument ID:	ICP6
Client Matrix:	Solid	Prep Batch:	490-395548	Lab File ID:	TALS_122216-6B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.496 g
Analysis Date:	12/22/2016 1450	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/19/2016 1351				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	20.2	18.47	92	80 - 120	
Lead	20.2	19.62	97	80 - 120	

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-395548

Method: 6010C
Preparation: 3051A

MS Lab Sample ID:	490-118034-A-1-E MS	Analysis Batch:	490-396401	Instrument ID:	ICP6
Client Matrix:	Solid	Prep Batch:	490-395548	Lab File ID:	TALS_122116-6B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.506 g
Analysis Date:	12/21/2016 2150			Final Weight/Volume:	100 mL
Prep Date:	12/19/2016 1351				
Leach Date:	N/A				

MSD Lab Sample ID:	490-118034-A-1-F MSD	Analysis Batch:	490-396401	Instrument ID:	ICP6
Client Matrix:	Solid	Prep Batch:	490-395548	Lab File ID:	TALS_122116-6B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.498 g
Analysis Date:	12/21/2016 2155			Final Weight/Volume:	100 mL
Prep Date:	12/19/2016 1351				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aluminum	1005	975	75 - 125	1	20	4	4
Antimony	14	91	75 - 125	133	20	J N	N
Barium	87	88	75 - 125	3	20		
Beryllium	92	94	75 - 125	4	20		
Cadmium	87	89	75 - 125	3	20		
Calcium	-21	214	75 - 125	10	20	4	4
Chromium	120	118	75 - 125	0	20		
Cobalt	81	88	75 - 125	9	20		
Copper	87	95	75 - 125	9	20		
Iron	652	898	75 - 125	5	20	4	4
Magnesium	156	179	75 - 125	3	20	4	4
Manganese	98	139	75 - 125	9	20		N
Nickel	71	103	75 - 125	24	20	N	N
Potassium	266	261	75 - 125	0	20	N	N
Selenium	83	91	75 - 125	10	20		
Silver	53	91	75 - 125	54	20	N	N
Sodium	102	104	75 - 125	2	20		
Thallium	83	82	75 - 125	1	20		
Vanadium	96	99	75 - 125	4	20		
Zinc	88	90	75 - 125	3	20		

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-395548

Method: 6010C
Preparation: 3051A

MS Lab Sample ID:	490-118034-A-1-E MS	Analysis Batch:	490-396697	Instrument ID:	ICP6
Client Matrix:	Solid	Prep Batch:	490-395548	Lab File ID:	TALS_122216-6B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.506 g
Analysis Date:	12/22/2016 1511			Final Weight/Volume:	100 mL
Prep Date:	12/19/2016 1351				
Leach Date:	N/A				

MSD Lab Sample ID:	490-118034-A-1-F MSD	Analysis Batch:	490-396697	Instrument ID:	ICP6
Client Matrix:	Solid	Prep Batch:	490-395548	Lab File ID:	TALS_122216-6B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.498 g
Analysis Date:	12/22/2016 1516			Final Weight/Volume:	100 mL
Prep Date:	12/19/2016 1351				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	104	90	75 - 125	7	20		
Lead	71	95	75 - 125	17	20	N	

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Method Blank - Batch: 490-396257

Method: 7471B
Preparation: 7471B

Lab Sample ID:	MB 490-396257/1-A	Analysis Batch:	490-396569	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-396257	Lab File ID:	122216-5aLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.611 g
Analysis Date:	12/22/2016 1056	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/21/2016 1423				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0295	U	0.0295	0.0982

Lab Control Sample - Batch: 490-396257

Method: 7471B
Preparation: 7471B

Lab Sample ID:	LCS 490-396257/2-A	Analysis Batch:	490-396569	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-396257	Lab File ID:	122216-5aLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.602 g
Analysis Date:	12/22/2016 1059	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/21/2016 1423				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.166	0.1404	85	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-396257

Method: 7471B
Preparation: 7471B

MS Lab Sample ID:	490-118345-A-1-B MS	Analysis Batch:	490-396569	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-396257	Lab File ID:	122216-5aLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.625 g
Analysis Date:	12/22/2016 1104			Final Weight/Volume:	100 mL
Prep Date:	12/21/2016 1423				
Leach Date:	N/A				

MSD Lab Sample ID:	490-118345-A-1-C MSD	Analysis Batch:	490-396569	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-396257	Lab File ID:	122216-5aLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.610 g
Analysis Date:	12/22/2016 1106			Final Weight/Volume:	100 mL
Prep Date:	12/21/2016 1423				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	84	91	80 - 120	11	20		

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Method Blank - Batch: 490-396419

Method: 7471B
Preparation: 7471B

Lab Sample ID:	MB 490-396419/1-A	Analysis Batch:	490-396569	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-396419	Lab File ID:	122216-5aLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.603 g
Analysis Date:	12/22/2016 1351	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/22/2016 0944				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0299	U	0.0299	0.0995

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-396419

Method: 7471B
Preparation: 7471B

LCS Lab Sample ID:	LCS 490-396419/2-A	Analysis Batch:	490-396569	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-396419	Lab File ID:	122216-5aLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.606 g
Analysis Date:	12/22/2016 1354	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/22/2016 0944				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-396419/3-A	Analysis Batch:	490-396569	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-396419	Lab File ID:	122216-5aLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.613 g
Analysis Date:	12/22/2016 1356	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/22/2016 0944				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	86	80	80 - 120	9	20		

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-396419

Method: 7471B
Preparation: 7471B

MS Lab Sample ID:	490-118066-F-3-B MS	Analysis Batch:	490-396569	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-396419	Lab File ID:	122216-5aLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.613 g
Analysis Date:	12/22/2016 1401			Final Weight/Volume:	100 mL
Prep Date:	12/22/2016 0944				
Leach Date:	N/A				

MSD Lab Sample ID:	490-118066-F-3-C MSD	Analysis Batch:	490-396569	Instrument ID:	LE5
Client Matrix:	Solid	Prep Batch:	490-396419	Lab File ID:	122216-5aLCS.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.608 g
Analysis Date:	12/22/2016 1404			Final Weight/Volume:	100 mL
Prep Date:	12/22/2016 0944				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	83	85	80 - 120	3	20		

Client: Roux Associates, Inc.

Job Number: 490-118160-1
Sdg Number:

Duplicate - Batch: 490-394165

Method: Moisture
Preparation: N/A

Lab Sample ID:	490-118112-A-1 DU	Analysis Batch:	490-394165	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/14/2016 1004	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	96.5	96.5	0	20	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

490-118160 Chain of Custody

COOLER RECEIPT FORM

Cooler Received/Opened On 12-12-16 @ 0850

Time Samples Removed From Cooler 1619 Time Samples Placed In Storage 1633 (2 Hour Window)

1. Tracking # 7525 (last 4 digits, FedEx) Courier: _ FedEx ____ _

IR Gun ID 31470366 pH Strip Lot N/A _ Chlorine Strip Lot N/A

2. Temperature of rep. sample or temp blank when opened: 5.4 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: one front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) DA

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) MDM

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) MDM

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) MDM

I certify that I attached a label with the unique LIMS number to each container (intial) MDM

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

Loc: 490
118160

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Anthony Marsocci	Lab PM: Huckaba, Jennifer	Ca	COC No: 490-60038-19378.1
Client Contact: Matthew Casey	Phone: 585-721-1196	E-Mail: jennifer.huckaba@testamericainc.com		Page: Page 1 of 1
Company: Roux Associates, Inc.				Job #:
Address: 12 Gill St., Suite 4700	Due Date Requested:			
City: Woburn	TAT Requested (days): Standard			
State, Zip: MA, 01801				
Phone:	PO #: 0172.0210M009			
Email: mcasey@rouxinc.com	WO #:			
Project Name: Roux - Olean, NY	Project #: 49005538			
Site: 350/351 Franklin Street	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Standard 8260 List + TICs	8270D - Standard List	6010C, 7471B - TAL METALS	DRY WEIGHT	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
END 478	12/6/16	08:15	G	S	N	N	X	X	X	X	4	1
END 477	12/5/16	12:30	G	S	N	N	X	X	X	X	4	2
END 475	12/5/16	09:45	G	S	N	N	X	X	X	X	4	3
END 476	12/5/16	12:30	G	S	N	N	X	X	X	X	4	4
END 472	12/5/16	09:15	G	S	N	N	X	X	X	X	4	5
END 473	12/5/16	09:30	G	S	N	N	X	X	X	X	4	6
END 474	12/5/16	09:30	G	S	N	N	X	X	X	X	4	7
END 469	12/5/16	09:00	G	S	N	N	X	X	X	X	4	8
END 470	12/5/16	09:00	G	S	N	N	X	X	X	X	4	9
END 471	12/5/16	09:15	G	S	N	N	X	X	X	X	4	10
Trip Blank	10/7/16										2	11

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Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) CAT A

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Anthony Marsocci	Date: 09 Dec 2016	Time: 1400	Method of Shipment: Fedex Express Saturday

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	09 Dec 2016 1400	Roux	Fedex		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				12-12-16 @ 0850	TAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
Δ Yes Δ No		5.4c

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 490-118160-1
SDG Number:

Login Number: 118160
List Number: 1
Creator: McBride, Mike

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX D

Waste Shipment Documentation

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499701

Customer Name TRECENVIRONMENTAL-11593iNY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345538
Destination
PO
Profile 11593iNY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 40
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	12/07/2016 07:37:19	INBOUND	JChapma7		Gross	70360 lb
Out	12/07/2016 07:48:42	OUTBOUND	JChapma7		Tare	28860 lb
					Net	41500 lb
					Tons	20.75

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	20.75	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499703

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345539
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 37
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	12/07/2016 07:54:17	INBOUND	JChapma7		Gross	73060 lb
Out	12/07/2016 08:08:10	OUTBOUND	JChapma7		Tare	27640 lb
					Net	45420 lb
					Tons	22.71

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	22.71	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature B Kuhl #37 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499705

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345541
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 27
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	12/07/2016 08:00:31	INBOUND	JChapma7		Gross	73880 lb
Out	12/07/2016 08:11:50	OUTBOUND	JChapma7		Tare	28740 lb
					Net	45140 lb
					Tons	22.57

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	22.57	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499706

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345540
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 36
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	12/07/2016 08:01:29	INBOUND	JChapma7		Gross	66300 lb
Out	12/07/2016 08:13:13	OUTBOUND	JChapma7		Tare	27600 lb
					Net	38700 lb
					Tons	19.35

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	19.35	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499708

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345543
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 12
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound	Gross	72140 lb
In	12/07/2016 08:05:53	INBOUND	JChapma7		Tare	27960 lb
Out	12/07/2016 08:16:23	OUTBOUND	JChapma7		Net	44180 lb
					Tons	22.09

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	22.09	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499709

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345542
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 45
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound	Gross	67640 lb
In	12/07/2016 08:06:46	INBOUND	JChapma7		Tare	28560 lb
Out	12/07/2016 08:20:28	OUTBOUND	JChapma7		Net	39080 lb
					Tons	19.54

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	19.54	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499712

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345544
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 2
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	12/07/2016 08:17:15	INBOUND	JChapma7		Gross	64220 lb
Out	12/07/2016 08:27:33	OUTBOUND	JChapma7		Tare	25140 lb
					Net	39080 lb
					Tons	19.54

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	19.54	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499713

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345545
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 46
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound	Gross	66520 lb
In	12/07/2016 08:18:14	INBOUND	JChapma7		Tare	28000 lb
Out	12/07/2016 08:29:23	OUTBOUND	JChapma7		Net	38520 lb
					Tons	19.26

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	19.26	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature Schmidt #46 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499714

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345546
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 23
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound	Gross	74040 lb
In	12/07/2016 08:20:01	INBOUND	JChapma7		Tare	28180 lb
Out	12/07/2016 08:34:30	OUTBOUND	JChapma7		Net	45860 lb
					Tons	22.93

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	22.93	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499736

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345547
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 40
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound	Gross	80420 lb
In	12/07/2016 09:41:33	INBOUND	JChapma7		Tare	28780 lb
Out	12/07/2016 09:56:15	OUTBOUND	JChapma7		Net	51640 lb
					Tons	25.82

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	25.82	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499745

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345550
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 36
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	12/07/2016 10:07:34	INBOUND	JChapma7		Gross	76320 lb
Out	12/07/2016 10:18:45	OUTBOUND	JChapma7		Tare	27600 lb
					Net	48720 lb
					Tons	24.36

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	24.36	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499744

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345548
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 37
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	12/07/2016 10:06:51	INBOUND	JChapma7		Gross	84720 lb
Out	12/07/2016 10:20:56	OUTBOUND	JChapma7		Tare	27580 lb
					Net	57140 lb
					Tons	28.57

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	28.57	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature Black #37 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499749

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345551
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 12
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	12/07/2016 10:14:47	INBOUND	JChapma7		Gross	77280 lb
Out	12/07/2016 10:27:20	OUTBOUND	JChapma7		Tare	27860 lb
					Net	49420 lb
					Tons	24.71

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	24.71	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499750

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345549
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 27
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound	Gross	114340 lb
In	12/07/2016 10:16:03	INBOUND	JChapma7		Tare	28680 lb
Out	12/07/2016 10:30:36	OUTBOUND	JChapma7		Net	85660 lb
					Tons	42.83

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	42.83	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499753

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345552
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 45
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	12/07/2016 10:23:19	INBOUND	JChapma7		Gross	79500 lb
Out	12/07/2016 10:39:30	OUTBOUND	JChapma7		Tare	28480 lb
					Net	51020 lb
					Tons	25.51

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	25.51	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature JLich 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345553
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED S
Generator 190-EXXONMOBILOLEANFRANKLIN EX

Time	Scale
12/07/2016 10:30:07	INBOUND

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499757

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345554
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 46
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	12/07/2016 10:38:24	INBOUND	JChapma7		Gross	70280 lb
Out	12/07/2016 10:52:10	OUTBOUND	JChapma7		Tare	27980 lb
					Net	42300 lb
					Tons	21.15

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	21.15	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature Johnny #46 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499760

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345555
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 2
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	12/07/2016 10:43:24	INBOUND	JChapma7		Gross	69220 lb
Out	12/07/2016 10:58:33	OUTBOUND	JChapma7		Tare	25100 lb
					Net	44120 lb
					Tons	22.06

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	22.06	Tons				CAT
*2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499786

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345556
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 40
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound
In	12/07/2016 11:49:46	INBOUND	JChapma7	
Out	12/07/2016 12:03:43	OUTBOUND	JChapma7	

Gross	78440 lb
Tare	28800 lb
Net	49640 lb
Tons	24.82

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	24.82	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499791

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345557
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 36
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	12/07/2016 12:04:42	INBOUND	JChapma7		Gross	79820 lb
Out	12/07/2016 12:16:38	OUTBOUND	JChapma7		Tare	27520 lb
					Net	52300 lb
					Tons	26.15

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	26.15	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499755

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345553
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 23
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator			
In				Inbound	Gross	75440 lb
Out	12/07/2016 10:30:07	INBOUND	JChapma7		Tare	28080 lb
	12/07/2016 [illegible]	OUTBOUND	JChapma7		Net	47360 lb
					Tons	23.68

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	23.68	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499798

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345558
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 37
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	12/07/2016 12:19:12	INBOUND	JChapma7		Gross	80760 lb
Out	12/07/2016 12:34:42	OUTBOUND	JChapma7		Tare	27740 lb
					Net	53020 lb
					Tons	26.51

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	26.51	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature BKW #37 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499802

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345559
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 12
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	12/07/2016 12:23:34	INBOUND	JChapma7		Gross	71400 lb
Out	12/07/2016 12:36:16	OUTBOUND	JChapma7		Tare	27900 lb
					Net	43500 lb
					Tons	21.75

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	21.75	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499805

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345560
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 27
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound	Gross	78020 lb
In	12/07/2016 12:29:22	INBOUND	JChapma7		Tare	28760 lb
Out	12/07/2016 12:39:14	OUTBOUND	JChapma7		Net	49260 lb
					Tons	24.63

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	24.63	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499807

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345561
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 45
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound	Gross	82980 lb
In	12/07/2016 12:31:14	INBOUND	JChapma7		Tare	28700 lb
Out	12/07/2016 12:40:53	OUTBOUND	JChapma7		Net	54280 lb
					Tons	27.14

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	27.14	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499809

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345562
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 23
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound	Gross	76840 lb
In	12/07/2016 12:40:44	INBOUND	JChapma7		Tare	28000 lb
Out	12/07/2016 12:51:05	OUTBOUND	JChapma7		Net	48840 lb
					Tons	24.42

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	24.42	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499813

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345563
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 46
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound	Gross	68720 lb
In	12/07/2016 12:46:26	INBOUND	JChapma7		Tare	27920 lb
Out	12/07/2016 13:06:11	OUTBOUND	JChapma7		Net	40800 lb
					Tons	20.40

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	20.40	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature Johnny #46 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499814

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345564
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 2
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	12/07/2016 12:53:31	INBOUND	JChapma7		Gross	67520 lb
Out	12/07/2016 13:09:07	OUTBOUND	JChapma7		Tare	25180 lb
					Net	42340 lb
					Tons	21.17

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	21.17	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499837

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345565
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 40
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	12/07/2016 13:57:34	INBOUND	mbaker13		Gross	81900 lb
Out	12/07/2016 14:10:51	OUTBOUND	mbaker13		Tare	28660 lb
					Net	53240 lb
					Tons	26.62

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	26.62	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499840

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345566
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 36
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound	Gross	79940 lb
In	12/07/2016 14:02:03	INBOUND	mbaker13		Tare	27640 lb
Out	12/07/2016 14:12:09	OUTBOUND	mbaker13		Net	52300 lb
					Tons	26.15

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	26.15	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature Bill 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499850

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345567
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 12
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	12/07/2016 14:23:14	INBOUND	mbaker13		Gross	74960 lb
Out	12/07/2016 14:38:55	OUTBOUND	mbaker13		Tare	27760 lb
					Net	47200 lb
					Tons	23.60

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	23.60	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499856

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345568
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 37
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	12/07/2016 14:34:43	INBOUND	mbaker13		Gross	81720 lb
Out	12/07/2016 14:45:40	OUTBOUND	mbaker13		Tare	27560 lb
					Net	54160 lb
					Tons	27.08

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	27.08	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature BKLYN #37 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499861

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345569
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 27
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	12/07/2016 14:41:45	INBOUND	mbaker13		Gross	79780 lb
Out	12/07/2016 14:54:23	OUTBOUND	mbaker13		Tare	28780 lb
					Net	51000 lb
					Tons	25.50

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	25.50	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499863

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345570
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 45
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	12/07/2016 14:46:47	INBOUND	mbaker13		Gross	83760 lb
Out	12/07/2016 15:01:13	OUTBOUND	mbaker13		Tare	28600 lb
					Net	55160 lb
					Tons	27.58

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	27.58	Tons				CAT
2	RCR-P-Regulatory C	100		%				

Total Fees
Total Ticket

Driver's Signature _____ 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499868

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345571
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 23
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	12/07/2016 14:59:00	INBOUND	mbaker13		Gross	83040 lb
Out	12/07/2016 15:10:40	OUTBOUND	JChapma7		Tare	27680 lb
					Net	55360 lb
					Tons	27.68

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	27.68	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499874

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345572
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 46
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	12/07/2016 15:12:07	INBOUND	JChapma7		Gross	64820 lb
Out	12/07/2016 15:23:44	OUTBOUND	JChapma7		Tare	27820 lb
					Net	37000 lb
					Tons	18.50

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	18.50	Tons				CAT
2	RCR-P-Regulatory C	100		%				

Total Fees
Total Ticket

Driver's Signature Johnny #46

2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499875

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/07/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345573
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 2
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound	Gross	68800 lb
In	12/07/2016 15:12:52	INBOUND	JChapma7		Tare	25200 lb
Out	12/07/2016 15:27:08	OUTBOUND	JChapma7		Net	43600 lb
					Tons	21.80

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	21.80	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499898

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/08/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345574
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 36
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	12/08/2016 08:22:25	INBOUND	JChapma7		Gross	81440 lb
Out	12/08/2016 08:30:55	OUTBOUND	JChapma7		Tare	27880 lb
					Net	53560 lb
					Tons	26.78

Comments

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Pet-RGC-	100	26.78	Tons				CAT
2 RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499902

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/08/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345575
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 37
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	12/08/2016 08:32:00	INBOUND	JChapma7		Gross	71420 lb
Out	12/08/2016 08:47:38	OUTBOUND	JChapma7		Tare	27760 lb
					Net	43660 lb
					Tons	21.83

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	21.83	Tons				CAT
2	RCR-P-Regulatory C	100		%				

Total Fees
Total Ticket

Driver's Signature BKW #37 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499904

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/08/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345576
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 27
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	12/08/2016 08:41:51	INBOUND	JChapma7		Gross	76140 lb
Out	12/08/2016 08:57:54	OUTBOUND	JChapma7		Tare	28840 lb
					Net	47300 lb
					Tons	23.65

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	23.65	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499924

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/08/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345577
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 36
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	12/08/2016 10:27:17	INBOUND	JChapma7		Gross	72420 lb
Out	12/08/2016 10:37:42	OUTBOUND	JChapma7		Tare	27700 lb
					Net	44720 lb
					Tons	22.36

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	22.36	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 2H3-1535

403WM

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 499929

Customer Name TRECENVIRONMENTAL-115931NY TR
Ticket Date 12/08/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 5345578
Destination
PO
Profile 115931NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANFRANKLIN EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 37
Container
Driver
Check#
Billing # 0003558
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	12/08/2016 10:47:40	INBOUND	JChapma7		Gross	74900 lb
Out	12/08/2016 11:05:11	OUTBOUND	JChapma7		Tare	27660 lb
					Net	47240 lb
					Tons	23.62

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	23.62	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature BKirk #37 2H3-1535

403WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~
~~1018 WASHINGTON ST.~~ Exxon Mobil Environmental Services
~~SPENCERPORT, NY 14559~~ 647 Route 1 #14 PMB 253 York, ME 03909
4. Generator's Phone
~~585-472-9399~~ Michael Carpenter (207) 363-8345

Generator's Site Address (If different than mailing):
~~EXXONMOBIL~~
351 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number: WMNA 5345538
B. State Generator's ID:

5. Transporter 1 Company Name: DTM 40
6. US EPA ID Number: 9A-834
C. State Transporter's ID:
D. Transporter's Phone:

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
WM OF NEW YORK AT CHAFFEE LANDFILL
10860 OLEAN RD.
CHAFFEE, NY 14030

10. US EPA ID Number:
G. State Facility ID:
H. State Facility Phone: 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Marsocci On behalf of ExxonMobil Environmental Services		12	7	2016

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Jason Fiske		12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

499701

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~ ~~1018 WASHINGTON ST.~~ Exxon Mobil ~~SPENCERPORT, NY 14559~~ Environmental Services 4. Generator's Phone ~~585-472-9399~~ Michael Carpenter	~~EXXONMOBIL~~ 351 FRANKLIN ST. OLEAN, NY 14760	WMNA	5345539
		B. State Generator's ID	

647 Route 1 #14
PMB 253
York, ME 03909
(207) 363-8345

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
William D Klink DH37	9A834	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
		F. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030		H. State Facility Phone 716-496-5192

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Marocci On behalf of Exxon Mobil Environmental Services Co		12	7	2016

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
William D Klink	William D Klink			

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Thompson		12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

H99703

NON-HAZARDOUS MANIFEST #27

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~
~~1018 WASHINGTON ST.~~ Exxon Mobil Environmental Services
~~SPENCERPORT, NY 14559~~ 647 Route 1 #M PMB 253 York, ME 03909

4. Generator's Phone
~~585-472-9399~~ Michael Carpenter (207) 363-8345

Generator's Site Address (If different than mailing):
~~EXXONMOBIL~~
351 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number: WMNA 5345541

B. State Generator's ID

5. Transporter 1 Company Name: DTH Exp 27

6. US EPA ID Number: 9A-834

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
WM OF NEW YORK AT CHAFFEE LANDFILL
10860 OLEAN RD.
CHAFFEE, NY 14030

10. US EPA ID Number

G. State Facility ID

H. State Facility Phone 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Marsacci on behalf of Exxon Mobil Environmental Services CO		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Richard Mega				

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

499705

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~
~~1018 WASHINGTON ST.~~ ExxonMobile Environmental Services
~~SPENCERPORT, NY 14559~~ 647 Route 1 #14
PMB 253
York, ME 03909

4. Generator's Phone
~~585-472-9399~~ Michael Carpenter (207) 363-8345

Generator's Site Address (If different than mailing):
~~EXXONMOBIL~~
351 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number: WMNA 5345540

B. State Generator's ID

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
D&H Transport 36	9A-835	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
		F. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030		H. State Facility Phone 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information
115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Marsaci on behalf of ExxonMobil Environmental Services Co		12	5	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
William S Emrich	William S Emrich	12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

449706

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~ ~~1018 WASHINGTON ST.~~ Exxon Mobil Environmental Services ~~SPENCERPORT, NY 14559~~ 617 Route 1 Rt 4 PMB 253 York, ME 03909 4. Generator's Phone ~~585-472-9399~~ Michael Carpenter (207) 363-8345	~~EXXONMOBIL~~ 351 FRANKLIN ST. OLEAN, NY 14760	WMNA	5345543
		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	
D&H Excavating LP	9A 8.35	D. Transporter's Phone	
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	
		F. Transporter's Phone	

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID	
WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030		H. State Facility Phone	716-496-5192

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Morocco on behalf of Exxon Mobil Environmental Services		12	7	2016

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Justin Fitzsimons		12	7	2016

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

499708

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~
~~1018 WASHINGTON ST.~~ Exxon Mobil Environmental Services
~~SPENCERPORT, NY 14559~~ C/O Route 1 #14
AMB 253
York, ME 03909
4. Generator's Phone
~~585-472-9399~~ Michael Carpenter (207) 363-8345

Generator's Site Address (If different than mailing):
~~EXXONMOBIL~~
351 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number: WMNA 5345542
B. State Generator's ID

5. Transporter 1 Company Name: D+H EXCAVATING LLC
6. US EPA ID Number: 9A 834
C. State Transporter's ID
D. Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
WM OF NEW YORK AT CHAFFEE LANDFILL
10860 OLEAN RD.
CHAFFEE, NY 14030
10. US EPA ID Number
G. State Facility ID
H. State Facility Phone 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information
115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Marsico on behalf of Exxon Mobil Environmental Services Co		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Rich Dixon		12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
J Chapman		12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

U99709

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. / Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~ Exxon Mobil Environmental Services ~~1018 WASHINGTON ST.~~ 647 Route 1 #A ~~SPENCERPORT, NY 14559~~ PMB 253 York, ME 03909 4. Generator's Phone ~~585-472-9399~~ Michael Carpenter (207) 363-8345	~~EXXONMOBIL~~ 351 FRANKLIN ST. OLEAN, NY 14760	WMNA	5345544
		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
D&H 2	9A-834	D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030	10. US EPA ID Number	G. State Facility ID H. State Facility Phone 716-496-5192

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Marsocci on behalf of Exxon Mobil Environmental Services (0		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Eric Armison				

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
J Chapman		12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

49972

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~
~~1018 WASHINGTON ST.~~ Exxon Mobil Environmental Services 647 Route 1 #14 PMB 253 York, ME 03909
~~SPENCERPORT, NY 14559~~
4. Generator's Phone
~~585-472-9399~~ Michael Carpenter (207) 363-8345

Generator's Site Address (If different than mailing):
~~EXXONMOBIL~~
351 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number: WMNA 5345545
B. State Generator's ID:

5. Transporter 1 Company Name: D&H transport 46
6. US EPA ID Number: 9[illegible]834
C. State Transporter's ID:
D. Transporter's Phone:

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
WM OF NEW YORK AT CHAFFEE LANDFILL
10860 OLEAN RD.
CHAFFEE, NY 14030
10. US EPA ID Number:
G. State Facility ID:
H. State Facility Phone: 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Morocci on behalf of ExxonMobil Environmental Services CO		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Johnny Tinsley	Johnny Tinsley	12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
J Chapman		12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Yellow- GENERATOR #1 COPY

499713

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. / Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~ ~~1018 WASHINGTON ST.~~ Exxon Mobil Environmental Services ~~SPENCERPORT, NY 14559~~ 647 Route 1 #14 AMB 253 York, ME 03909 4. Generator's Phone ~~585-472-9399~~ Michael Carpenter (207) 363-8345	~~EXXONMOBIL~~ 351 FRANKLIN ST. OLEAN, NY 14760	WMNA	5345546
		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
D & H 23	9A834	D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030		H. State Facility Phone 716-496-5192

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Marzocci on behalf of ExxonMobil Environmental Services IO		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ryan Powers	Ryan Powers	12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

499714

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~
~~1018 WASHINGTON ST.~~ Exxon Mobil Environmental Services 647 Route #4 York, ME 03909 PMB 253
~~SPENCERPORT, NY 14559~~
4. Generator's Phone
~~585-472-9399~~ Michael Carpenter (207) 363-8345

Generator's Site Address (If different than mailing):
~~EXXONMOBIL~~
351 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number: WMNA 5345547
B. State Generator's ID:

5. Transporter 1 Company Name: DTH 40
6. US EPA ID Number: 9A-834
C. State Transporter's ID:
D. Transporter's Phone:

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
WM OF NEW YORK AT CHAFFEE LANDFILL
10860 OLEAN RD.
CHAFFEE, NY 14030
10. US EPA ID Number:
G. State Facility ID:
H. State Facility Phone: 716-496-5192

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Mercieca on behalf of Exxon Mobil Environmental Services CO		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Jason Fiske		12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Yellow- GENERATOR #1 COPY

499736

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~ ~~1018 WASHINGTON ST~~ Exxon Mobil Environmental Services 467 Route 1 #14 ~~SPENCERPORT, NY 14559~~ PMB 253 York, ME 03909	~~EXXONMOBIL~~ 351 FRANKLIN ST. OLEAN, NY 14760	WMNA	5345548
4. Generator's Phone ~~585-472-9399~~ Michael Carpenter (207) 363-8345		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
B Kink #DH 37		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030		H. State Facility Phone 716-496-5192

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Marsocci on behalf of Exxon Mobil Environmental Services Co		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
D+H Excavating	B Kink	12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

499744

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST | 1. Generator's US EPA ID No. | Manifest Doc No. | 2. Page 1 of 1

3. Generator's Mailing Address:
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~
~~1018 WASHINGTON ST.~~ Exxon Mobil Environmental Services
~~SPENCERPORT, NY 14559~~ 417 Route 1 #14 PMB 253 York, ME 03909
4. Generator's Phone
~~585-472-9399~~ Michael Carpenter (207) 363-8345

Generator's Site Address (If different than mailing):
~~EXXONMOBIL~~
351 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number: WMNA 5345550
B. State Generator's ID

5. Transporter 1 Company Name: D&H Transport #36
6. US EPA ID Number: 9A-835
C. State Transporter's ID
D. Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
WM OF NEW YORK AT CHAFFEE LANDFILL
10860 OLEAN RD.
CHAFFEE, NY 14030
10. US EPA ID Number
G. State Facility ID
H. State Facility Phone 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Morsecci on behalf of Exxon Mobil Environmental Services Co		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
William S Emmick	William S Emmick	12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Chapman		12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Yellow- GENERATOR #1 COPY

499745

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~
~~1018 WASHINGTON ST.~~ ExxonMobil Environmental Services C/O Route 1 #44 PMB 253
~~SPENCERPORT, NY 14559~~ York, ME 03909
4. Generator's Phone
~~585-472-9399~~ Michael Carpenter (207) 363-8345

Generator's Site Address (If different than mailing):
~~EXXONMOBIL~~
351 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number: WMNA 5345551
B. State Generator's ID

5. Transporter 1 Company Name: D&H Excavating #12
6. US EPA ID Number: NA-834
C. State Transporter's ID
D. Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
WM OF NEW YORK AT CHAFFEE LANDFILL
10860 OLEAN RD.
CHAFFEE, NY 14030
10. US EPA ID Number
G. State Facility ID
H. State Facility Phone 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information
115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Mussari on Behalf of ExxonMobil Environmental Services CO		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Justin Fitzsimons		12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

499749

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~
~~1018 WASHINGTON ST.~~ Exxon Mobil Environmental Services
~~SPENCERPORT, NY 14559~~ 647 Rte 1 #14 PMB 253 York, ME 03909
4. Generator's Phone
~~585-472-9399~~ Michael Carpenter (207) 363-8345

Generator's Site Address (If different than mailing):
~~EXXONMOBIL~~
351 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number: WMNA 5345549
B. State Generator's ID:

5. Transporter 1 Company Name: D+H Exc 27
6. US EPA ID Number: 9A 834
C. State Transporter's ID:
D. Transporter's Phone:

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
WM OF NEW YORK AT CHAFFEE LANDFILL
10860 OLEAN RD.
CHAFFEE, NY 14030
10. US EPA ID Number:
G. State Facility ID:
H. State Facility Phone: 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
~~Anthony Marsocci~~ on behalf of Exxon Mobil Environmental Services Co		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

499750

WM WASTE MANAGEMENT NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of 1

3. Generator's Mailing Address:
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~
~~1018 WASHINGTON ST.~~ Exxon Mobil Environmental Services
~~SPENCERPORT, NY 14559~~ 647 Route 1 #H PMB 253 York, ME 03909

Generator's Site Address (If different than mailing):
~~EXXONMOBIL~~
351 FRANKLIN ST.
OLEAN, NY 14760

4. Generator's Phone ~~585-472-9399~~ Michael Carpenter (207) 363-8345

A. Manifest Number: WMNA 5345552

B. State Generator's ID

5. Transporter 1 Company Name	6. US EPA ID Number	
D+H EXCAVATING 45	9A-834	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030	**10. US EPA ID Number**	G. State Facility ID H. State Facility Phone 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Marsaci on behalf of Exxon Mobil Environmental Services Co	[signature]	12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Rich Dixon	[signature]	12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
J Chapman	[signature]	12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

499753

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~ Exxon Mobil Environmental Services ~~1018 WASHINGTON ST.~~ 647 Route 1 #19 PMB 253 ~~SPENCERPORT, NY 14559~~ York, ME 03909 4. Generator's Phone ~~585-472-9399~~ Michael Carpenter (207) 363-8345	~~EXXONMOBIL~~ 351 FRANKLIN ST. OLEAN, NY 14760	WMNA	5345553
		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	
DLH 23	9A834	D. Transporter's Phone	
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	
		F. Transporter's Phone	
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID	
WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030		H. State Facility Phone 716-496-5192	

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Marsaci on behalf of Exxon Mobil Environmental Services CO		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ryan Powers	Ryan Powers	12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

499755

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~ Exxon Mobil Environmental Services ~~1018 WASHINGTON ST.~~ 617 Route 1 #14 PMB 233 ~~SPENCERPORT, NY 14559~~ York, ME 03909 4. Generator's Phone ~~585-472-9399~~ Michael Carpenter (207) 363-8345	~~EXXONMOBIL~~ 351 FRANKLIN ST. OLEAN, NY 14760	WMNA	5345554
		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
Johnny #416 OH	9A-834	D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030	10. US EPA ID Number	G. State Facility ID H. State Facility Phone 716-496-5192

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Mazzeo on behalf of Exxon Mobil Environmental Services		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Johnny Tinsley	Johnny Tinsley	12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Yellow- GENERATOR #1 COPY

499757

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. | Manifest Doc No. | 2. Page 1 of 1

3. Generator's Mailing Address:
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~
~~1018 WASHINGTON ST.~~ Exxon Mobil Environmental Services 647 Route 1 #14 PMB 253 York ME 03909
~~SPENCERPORT, NY 14559~~
4. Generator's Phone
585-472-9399 Michael Carpenter (207) 363-8345

Generator's Site Address (If different than mailing):
~~EXXONMOBIL~~
351 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number: WMNA 5345555
B. State Generator's ID

5. Transporter 1 Company Name: DGH 2
6. US EPA ID Number: 9A-834
C. State Transporter's ID
D. Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
WM OF NEW YORK AT CHAFFEE LANDFILL
10860 OLEAN RD.
CHAFFEE, NY 14030
10. US EPA ID Number
G. State Facility ID
H. State Facility Phone 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information
115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Mercieri on behalf of Exxon Mobil Environmental Services CO		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
	Eric Armigan	12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

499768

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST | 1. Generator's US EPA ID No. | Manifest Doc No. | 2. Page 1 of 1

3. Generator's Mailing Address:
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~
~~1018 WASHINGTON ST.~~ ExxonMobil Environmental Services
~~SPENCERPORT, NY 14559~~ 647 Route 1 #141 PMB 253 York, ME 03909

4. Generator's Phone
~~585-472-9399~~ Michael Carpenter (207) 363-8345

Generator's Site Address (If different than mailing):
~~EXXONMOBIL~~
351 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number: WMNA 5345556

B. State Generator's ID

5. Transporter 1 Company Name: D+H 40

6. US EPA ID Number: 9A-834

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
WM OF NEW YORK AT CHAFFEE LANDFILL
10860 OLEAN RD.
CHAFFEE, NY 14030

10. US EPA ID Number

G. State Facility ID

H. State Facility Phone 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information
115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Morocco on behalf of Exxon Mobil Environmental Services Co		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Jason Fiske		12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Yellow- GENERATOR #1 COPY

499786

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~ Exxon Mobil Environmental Services 647 Route 1 #14 PMB 253 York, ME 03909 ~~1018 WASHINGTON ST.~~ ~~SPENCERPORT, NY 14559~~ 4. Generator's Phone ~~585-472-9399~~ Michael Carpenter (207) 363-8345	~~EXXONMOBIL~~ 351 FRANKLIN ST. OLEAN, NY 14760	WMNA	5345557
		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
D&H Transport #30	9A-839	D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030		H. State Facility Phone 716-496-5192

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Mascci on behalf of Exxon Mobil Environmental Services Co		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
William S Emrick	William S Emrick	12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

499791

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~ Exxon Mob. Environmental Svcs ~~1018 WASHINGTON ST.~~ c/o TREC #44 ~~SPENCERPORT, NY 14559~~ AMB 253 4. Generator's Phone ~~585-472-9399~~ Michael Carpenter (207) 363-8345	~~EXXONMOBIL~~ 351 FRANKLIN ST. OLEAN, NY 14760	WMNA	5345558
		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	
D+H Excavating #37	9A-834	D. Transporter's Phone	
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	
		F. Transporter's Phone	

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID	
WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030		H. State Facility Phone	716-496-5192

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Mascaccio on behalf of Exxon Mobil Environmental Services Co		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
B Klink	B Klink	12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
J Thompson		12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

499798

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. / Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~ Exxon Mobil Environmental Services
~~1018 WASHINGTON ST~~
~~SPENCERPORT, NY 14559~~ 647 Route #1 York ME 03909
4. Generator's Phone
~~585-472-9399~~ Michael Carpenter (207) 363-8345

Generator's Site Address (If different than mailing):
~~EXXONMOBIL~~
351 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number: WMNA 5345559
B. State Generator's ID

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID / D. Transporter's Phone
D & H Excavating #12	9A-834	
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID / F. Transporter's Phone

9. Designated Facility Name and Site Address
WM OF NEW YORK AT CHAFFEE LANDFILL
10860 OLEAN RD.
CHAFFEE, NY 14030

10. US EPA ID Number

G. State Facility ID
H. State Facility Phone 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location: Cell / Grid / Level

15. Special Handling Instructions and Additional Information
115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Muscici on behalf Exxon Mobil Environmental Services Co		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Justin Fitzsimons		12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

499802

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~ Exxon Mobil Environmental Services ~~1018 WASHINGTON ST.~~ 647 Route 1 #4 PMB 253 ~~SPENCERPORT, NY 14559~~ York ME 03909	~~EXXONMOBIL~~ 351 FRANKLIN ST. OLEAN, NY 14760	WMNA	5345560
4. Generator's Phone ~~585-472-9399~~ Michael Carpenter (207)363-8345		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	
D+H Excav 27	9A-834	D. Transporter's Phone	
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	
		F. Transporter's Phone	
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID	
WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030		H. State Facility Phone 716-496-5192	

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Mustaci on behalf of Exxon Mobil Environmental Services CO		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Richard Myers		12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

499805

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~ ~~1018 WASHINGTON ST.~~ Exxon Mobil Environmental Services ~~SPENCERPORT, NY 14559~~ 647 Route 1 #4 PMB 253 York ME 03909 4. Generator's Phone ~~585-472-9399~~ Michael Carpenter (207) 363-8345	~~EXXONMOBIL~~ 351 FRANKLIN ST. OLEAN, NY 14760	WMNA	5345561
		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
D+H EXCAVATING 48	NA-834	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
		F. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030		H. State Facility Phone 716-496-5192

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Nerucci on behalf of Exxon Mobil Environmental Services CO		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Rich Dixon		12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

499807

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~
~~1018 WASHINGTON ST.~~ Exxon Mobil Environmental Services
~~SPENCERPORT, NY 14559~~ 647 Route 1 #14 Amb 253 York ME 03909
4. Generator's Phone
585-472-9399 Michael Carpenter (207) 363-8345

Generator's Site Address (If different than mailing):
~~EXXONMOBIL~~
351 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number: WMNA 5345562
B. State Generator's ID

5. Transporter 1 Company Name: D&H 23
6. US EPA ID Number: 9A-834
C. State Transporter's ID
D. Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
WM OF NEW YORK AT CHAFFEE LANDFILL
10860 OLEAN RD.
CHAFFEE, NY 14030
10. US EPA ID Number
G. State Facility ID
H. State Facility Phone 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Marocci on behalf of Exxon Mobil Environmental Services		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ryan Powers	Ryan Powers	12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Yellow- GENERATOR #1 COPY

499809

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~
~~1018 WASHINGTON ST~~ Exxon Mobil Environmental Services
~~SPENCERPORT, NY 14559~~ 617 Route 1 #4
PMB 253
York, ME 03909
4. Generator's Phone
~~585-472-9399~~ Michael Carpenter (207) 363-8315

Generator's Site Address (If different than mailing):
~~EXXONMOBIL~~
351 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number: WMNA 5345563
B. State Generator's ID:

5. Transporter 1 Company Name: D&H Transport #46
6. US EPA ID Number: 9A-834
C. State Transporter's ID:
D. Transporter's Phone:

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
WM OF NEW YORK AT CHAFFEE LANDFILL
10860 OLEAN RD.
CHAFFEE, NY 14030
10. US EPA ID Number:
G. State Facility ID:
H. State Facility Phone: 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information
115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Incorvaia on behalf of Exxon Mobil Environmental Services Co		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Johnny Tinsley	Johnny Tinsley	12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

499813

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~ ~~1018 WASHINGTON ST.~~ Exxon Mobil Environmental Services ~~SPENCERPORT, NY 14559~~ 641 Route #1 PMB 253 York ME 03909 4. Generator's Phone ~~585-472-9399~~ Michael Carpenter (201) 363-8345	~~EXXONMOBIL~~ 351 FRANKLIN ST. OLEAN, NY 14760	WMNA 5345564 B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
D&H 2	9A-834	D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030	10. US EPA ID Number	G. State Facility ID H. State Facility Phone 716-496-5192

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Marsocci on behalf of Exxon Mobil Environmental Services (0		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Eric Armison		12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

499814

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~ ~~1018 WASHINGTON ST~~ Exxon Mobil Environmental Services 647 Route 1141 PMB 253 ~~SPENCERPORT, NY 14559~~ York ME 03909 4. Generator's Phone 585-472-9399 Michael Carpenter (207) 363-8345	~~EXXONMOBIL~~ 351 FRANKLIN ST. OLEAN, NY 14760	WMNA 5345565 B. State Generator's ID

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
D+H 40	9A-834	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID
WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030		H. State Facility Phone 716-496-5192

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Marsico on behalf of Exxon Mobil Environmental Services Co		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Jason Fiske		12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
M. Baker	M. Baker	12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WM Chaffee LF 499837

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~ Exxon Mobil Environmental Services ~~1018 WASHINGTON ST~~ ~~SPENCERPORT, NY 14559~~ 647 Route 1 #14 AMB 253 York ME 03909	~~EXXONMOBIL~~ 351 FRANKLIN ST. OLEAN, NY 14760	WMNA	5345566
4. Generator's Phone ~~585-472-9399~~ Michael Carpenter (207) 363-8345		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
DiH Transport #86	9A-835	D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030		H. State Facility Phone 716-496-5192

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Marocci on behalf of Exxon Mobil Environmental Services Co		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
William S Emmick	William S Emmick	12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
M. Baker	M. Baker	12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WM Chaffee LF 499840

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST | 1. Generator's US EPA ID No. | Manifest Doc No. | 2. Page 1 of 1

3. Generator's Mailing Address:
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~
~~1018 WASHINGTON ST.~~ Exxon Mobil Environmental Services C/O Route 1 #14 PMB 253 York ME 03909
~~SPENCERPORT, NY 14559~~

4. Generator's Phone
~~585-472-9399~~ Michael Carpenter (207) 363-8345

Generator's Site Address (If different than mailing):
~~EXXONMOBIL~~
351 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number: WMNA 5345567
B. State Generator's ID

5. Transporter 1 Company Name: D&H Excavating #12
6. US EPA ID Number: NYA-834
C. State Transporter's ID
D. Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
WM OF NEW YORK AT CHAFFEE LANDFILL
10860 OLEAN RD.
CHAFFEE, NY 14030

10. US EPA ID Number
G. State Facility ID
H. State Facility Phone 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information
115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Morocci on behalf of Exxon Mobil Environmental Services (6		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Justin Fitzsimons		12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
M. Baker	M. Baker	12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY | Blue- GENERATOR #2 COPY | Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY | Gold- TRANSPORTER #1 COPY

WM Chaffee LF 49850

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~ ~~1018 WASHINGTON ST.~~ Exxon Mobil Environmental Services ~~SPENCERPORT, NY 14559~~ 617 Route #1 PMB 253 York ME 03909 4. Generator's Phone ~~585 472 9399~~ Michael Carpenter (207) 363-8345	~~EXXONMOBIL~~ 351 FRANKLIN ST. OLEAN, NY 14760	WMNA	5345568
		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
DrH #37		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030		H. State Facility Phone 716-496-5192

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
~~Anthony Marsaci~~ on behalf of ~~Exxon Mobil~~ Environmental Services CO		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
BKINK	BKINK	12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
M. Baker	M. Baker	12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

W.M Chaffee LF 499856

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of
			1

3. Generator's Mailing Address:
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~ Exxon Mob.l Environmental Services
~~1018 WASHINGTON ST.~~ 647 Route 1 #14 PMB 253
~~SPENCERPORT, NY 14559~~ York ME 03909

4. Generator's Phone
~~585-472-9399~~ Michael Carpenter (207) 363-8345

Generator's Site Address (If different than mailing):
~~EXXONMOBIL~~
351 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number: WMNA 5345569

B. State Generator's ID

5. Transporter 1 Company Name: P+H 27

6. US EPA ID Number: 9A-834

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
WM OF NEW YORK AT CHAFFEE LANDFILL
10860 OLEAN RD.
CHAFFEE, NY 14030

10. US EPA ID Number

G. State Facility ID

H. State Facility Phone: 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location

Cell | Level

Grid

15. Special Handling Instructions and Additional Information
115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Morocci on behalf of Exxon Mobil Environmental Services CO		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Richard Lyon	Richard Lyon	12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
M. Baker	M. Baker	12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WM Chaffee LF 499861

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~ Exxon Mobil
~~1018 WASHINGTON ST.~~ Environmental Services
~~SPENCERPORT, NY 14559~~ 647 Route 1 #14
RMD 253
York ME 03909
4. Generator's Phone
~~585-472-9399~~ Michael Carpenter (207)363-8345

Generator's Site Address (If different than mailing):
EXXONMOBIL
351 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number: WMNA 5345570

B. State Generator's ID

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
DLH EXCAVATING 45	GA 834	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
		F. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030		H. State Facility Phone 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information
115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Mussari on behalf of Exxon Mobil Environmental Services Co		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Jerd Dixon		12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
M. Baker	M. Baker	12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WM Chaffee LF

499863

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. Manifest Doc No.

2. Page 1 of 1

3. Generator's Mailing Address:
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~
~~1018 WASHINGTON ST.~~ Exxon Mobil Environmental Services
~~SPENCERPORT, NY 14559~~ 647 Route 1 #14
PMB 253
York ME 03909

4. Generator's Phone
~~585-472-9309~~ Michael Carpenter (207) 363-8345

Generator's Site Address (If different than mailing):
~~EXXONMOBIL~~
351 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number WMNA 5345571

B. State Generator's ID

5. Transporter 1 Company Name
D & H 23

6. US EPA ID Number
9A834

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
WM OF NEW YORK AT CHAFFEE LANDFILL
10860 OLEAN RD.
CHAFFEE, NY 14030

10. US EPA ID Number

G. State Facility ID

H. State Facility Phone 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location

Cell | Level

Grid

15. Special Handling Instructions and Additional Information
115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Muscari on behalf of Exxon Mobil Environmental Services (O		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ryan Powers	Ryan Powers	12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
R. Baker	R. Baker	12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WM Chaffee LF

499868

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~ Exxon Mobil Environmental Services ~~1018 WASHINGTON ST.~~ 647 Rawl #14 ~~SPENCERPORT, NY 14559~~ PMB 253 4. Generator's Phone York ME 03909 ~~585-472-9399~~ Michael Carpenter (207) 363-3345	~~EXXONMOBIL~~ 351 FRANKLIN ST. OLEAN, NY 14760	WMNA	5345572
		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	
DH #46	9A-834	D. Transporter's Phone	
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	
		F. Transporter's Phone	

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID	
WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030		H. State Facility Phone	716-496-5192

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Mezzacci on behalf of Exxon Mobil Environmental Services Co		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Johnny Tinsley	~~Johnny~~ Johnny Tinsley	12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

499874

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. / Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~ Exxon Mobil Environmental Servics ~~1018 WASHINGTON ST.~~ 417 Route #14 ~~SPENCERPORT, NY 14559~~ PMB 253 York ME 03909 4. Generator's Phone 585-472-9399 Michael Carpenter (207) 363-8345	EXXONMOBIL 351 FRANKLIN ST. OLEAN, NY 14760	WMNA	5345573
		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
D&H 2	9A-834	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
		F. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030		H. State Facility Phone 716-496-5192

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Marsocci on behalf of Exxon Mobil Environmental Services		12	7	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Eric Armison		12	7	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		12	7	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

499875

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~ ~~1018 WASHINGTON ST.~~ Exxon Mobil Environmental Services ~~SPENCERPORT, NY 14559~~ 647 Rock 1 #14 PMB 253 York ME 03909 4. Generator's Phone ~~585-472-9399~~ Michael Carpenter (207)363-8345	~~EXXONMOBIL~~ 351 FRANKLIN ST. OLEAN, NY 14760	WMNA	5345574
		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
Dill Transport #36	9A-83~~4~~	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
		F. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030		H. State Facility Phone 716-496-5192

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Morocco on behalf of Exxon Mobil Environmental Services		12	8	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
William S Emrick	William S Emrick	12	8	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		12	8	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

499898

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST | 1. Generator's US EPA ID No. | Manifest Doc No. | 2. Page 1 of 1

GENERATOR

3. Generator's Mailing Address:
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~
1018 WASHINGTON ST.
~~SPENCERPORT, NY 14559~~ Exxon Mobil Environmental Services 647 Route 1 #94 PMB 253 York ME 03909

4. Generator's Phone
~~585-472-9399~~ Michael Carpenter (207) 363-8945

Generator's Site Address (If different than mailing):
~~EXXONMOBIL~~
351 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number: WMNA 5345575

B. State Generator's ID

5. Transporter 1 Company Name: D+H Excavating #37	6. US EPA ID Number: 9A-834	C. State Transporter's ID / D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID / F. Transporter's Phone
9. Designated Facility Name and Site Address: WM OF NEW YORK AT CHAFFEE LANDFILL, 10860 OLEAN RD., CHAFFEE, NY 14030	10. US EPA ID Number	G. State Facility ID / H. State Facility Phone: 716-496-5192

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information
115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Marsocci on behalf of Exxon Mobil Environmental Services Co		12	8	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
BKLINK	BKL	12	8	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		12	8	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

499902

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~
~~1018 WASHINGTON ST.~~ Exxon Mobil Environmental Services
~~SPENCERPORT, NY 14559~~ 647 Route 1 #14 PMB 253 York ME 03909
4. Generator's Phone
~~585-472-9399~~ Michael Carpenter (207) 363-8345

Generator's Site Address (If different than mailing):
~~EXXONMOBIL~~
351 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number: WMNA 5345576
B. State Generator's ID

5. Transporter 1 Company Name: D+H Excav 27
6. US EPA ID Number: 9A-834
C. State Transporter's ID
D. Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
WM OF NEW YORK AT CHAFFEE LANDFILL
10860 OLEAN RD.
CHAFFEE, NY 14030

10. US EPA ID Number
G. State Facility ID
H. State Facility Phone 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Marocci on behalf of Exxon Mobil Environmental Services		12	8	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Richard Lyon		12	8	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
J Chapman		12	8	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

499904

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~ ~~1018 WASHINGTON ST~~ Exxon Mobil Environmental Services ~~SPENCERPORT, NY 14559~~ 647 Route 1 #14 PMB 253 York ME 03909 4. Generator's Phone ~~585-472-9399~~ Michael Carpenter (207) 363-8345	EXXONMOBIL 351 FRANKLIN ST. OLEAN, NY 14760	WMNA	5345577
		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
D&H Transport #36	9A-835	D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030		H. State Facility Phone 716-496-5192

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Marocci on behalf of Exxon Mobil Environmental Services CO		12	8	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
William S Emmick	William S Emmick	12	8	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Chapman		12	8	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

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NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
~~EXXONMOBIL C/O TREC ENVIRONMENTAL~~ Exxon Mobil Environmental Services ~~1018 WASHINGTON ST.~~ 647 Route 4/4 PMB 257 ~~SPENCERPORT, NY 14559~~ York ME 03909 4. Generator's Phone 585-472-9399 Michael Carpenter (207) 363-8345	~~EXXONMOBIL~~ 351 FRANKLIN ST. OLEAN, NY 14760	WMNA	5345578
		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
D4H37	9A-834	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
		F. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030		H. State Facility Phone 716-496-5192

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 115931NY	001	DT	20	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

115931NY – PETROLEUM IMPACTED SOIL WEIGHT IS ESTIMATED

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Anthony Morocci on behalf of Exxon Mobil Environmental Services Co		12	8	16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
BKLINK	BKink	12	8	16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		12	8	16

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

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