

David Szymanski, Project Manager
New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, NY 14203-2915

Arcadis of New York, Inc.
50 Fountain Plaza
Suite 600
Buffalo, New York 14202
Tel 716.667.0900

Subject:
Flexo Transparent, LLC - BCP Site C915228
Periodic Review Report and Institutional Control Certification

ENVIRONMENT

Dear Mr. Szymanski:

On behalf of Flexo Transparent, LLC (Flexo), Arcadis of New York, Inc. (Arcadis) is submitting the annual Periodic Review Report (PRR) and Institutional Control Certification for Brownfield Clean-Up Program (BCP) Site C915228.

Date:
July 15, 2018

Contact:
Kate Clubine

Flexo has completed the process of expanding flexographic printing capabilities at the facility, which has required activities such as site development, construction, permit updates, and tax parcel merging. These activities, which are reflected in the certification form answers to question one through question five, are detailed in the enclosed PRR. The table below summarizes the reason for the answers for question one through five.

Phone:
716.667.6637

Email:
Kate.Clubine@Arcadis.com

Our ref:
6105002.0011

Question	Explanation of Answer
One	The site address has changed from 1122-1146 Seneca Street to 28 Wasson Street. The tax parcels that form the BCP boundary have been merged into the tax parcel section 123, block 29-1, lot 2.11, which has a site address of 28 Wasson, Buffalo, New York 14210.
Two	The tax parcels have been merged as described above.
Three	Approximately one acre of the former 1146 Seneca Street parcel, which was previously a grass-covered berm, was removed in order to erect the building expansion and associated infrastructure.
Four	Construction and building permits were issued for the building expansion, as well as an approved minor modification to the Flexo Title V permit to cover the addition of printing press equipment and the regenerative thermal oxidizer.
Five	The building expansion construction began in the Spring of 2017 and was completed in the Fall of 2017.

If you require additional information or would like to discuss this submittal further, please contact me at 716-667-6637.

Sincerely,
Arcadis of New York, Inc.

Katherine Clubine

Kate Clubine
Environmental Scientist

Enclosures

CC:

B. Girard (Arcadis)
B. Mabry (Flexo)
D. Steger (Flexo)
T. Neuman (Flexo)

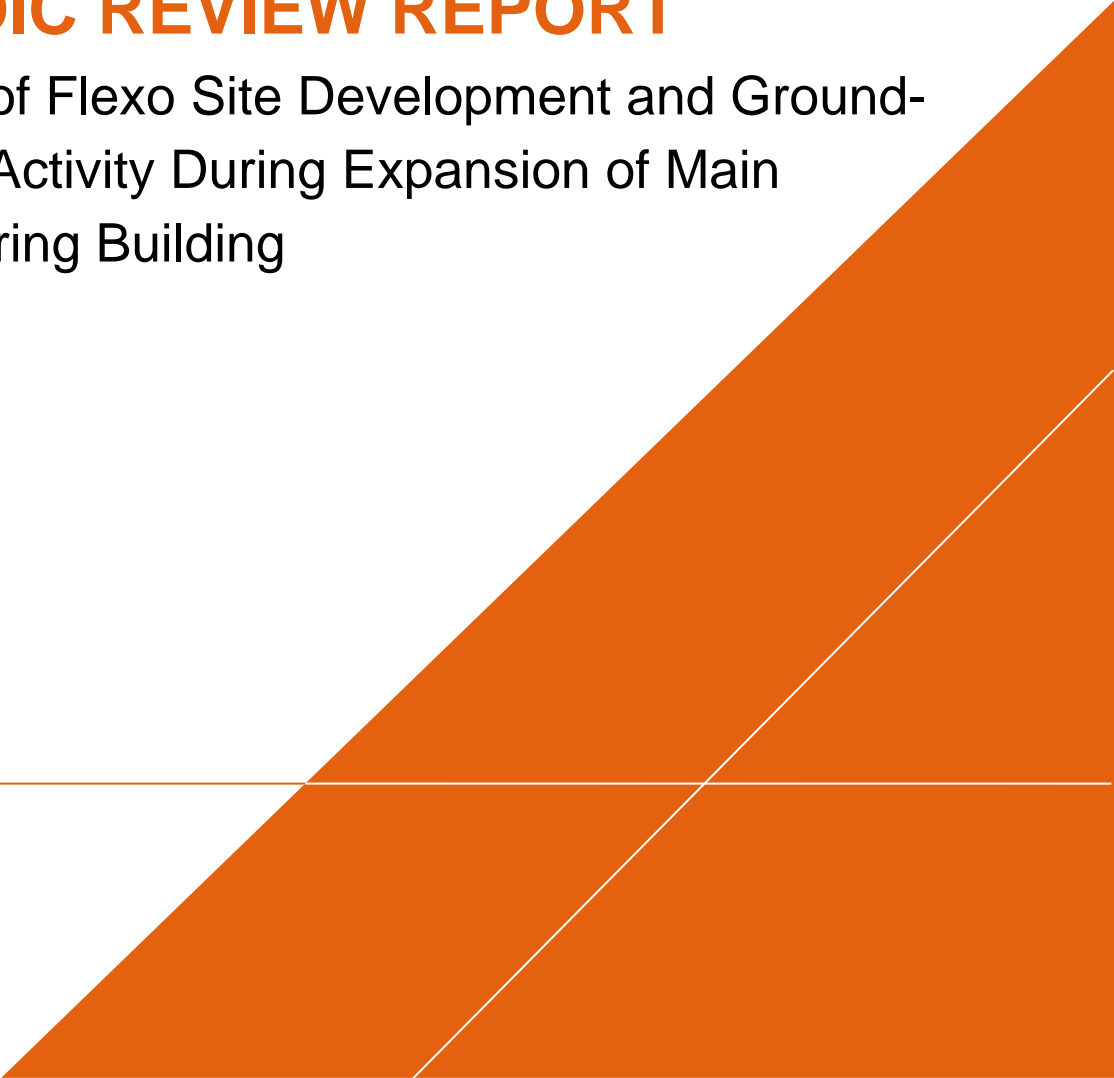
Flexo Transparent, LLC

NYSDEC BCP Site C915228

PERIODIC REVIEW REPORT

Summary of Flexo Site Development and Ground-
Intrusive Activity During Expansion of Main
Manufacturing Building

July 2018



PERIODIC REVIEW REPORT

Expansion of Main Manufacturing Building

Prepared for:

Flexo Transparent, LLC
28 Wasson Street
Buffalo, New York 14210
(716) 825-7710

Prepared by:

Arcadis of New York, Inc.
50 Fountain Plaza, Suite 600
Buffalo, New York 14202
Tel 716 667 0900
Fax 716 842 2612

Our Ref.:

06105002.0010

Date:

July 2018

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Figure 1. Site Plan

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1 INTRODUCTION

The Flexo Transparent, LLC (Flexo) property, hereafter referred to as the Site, is located at 28 Wasson Street in Buffalo, New York. In 2010, the Site achieved a Track 2 level cleanup through New York State Department of Environmental Conservation (NYSDEC) Brownfield Clean-Up Program (BCP) as registered BCP Site C915228. The remedial measures completed at the Site are documented in the Final Engineering Report (Malcolm Pirnie 2010).

The Site previously consisted of four separate tax parcels, including three tax parcels that comprised the BCP Site No. C915228. Flexo requested that the City of Buffalo merge the four tax parcels into a single tax parcel because the City of Buffalo does not allow construction across multiple tax parcels. The boundaries of the BCP Site remain unchanged. The tax parcels are summarized as follows:

- Tax parcel section 123, block 29-1, lot 2 – This lot serves as the main offices and a manufacturing building. Following the tax parcel merger, the tax parcel address (28 Wasson Street), also includes the three tax parcels that comprise the BCP Site No. C915228:
 - Tax parcel section 123, block 29-1, lot 10 (formerly 1146 Seneca Street)
 - Tax parcel section 123, block 29-1, lot 11 (formerly 1132 Seneca Street)
 - Tax parcel section 123, block 29-1, lot 12 (formerly 1122 Seneca Street)

As a requirement of the BCP, post-remedial obligations remain in effect for the Site as outlined in the Site Management Plan (SMP; Malcolm Pirnie 2010). The SMP establishes the Environmental Easement, Excavation Work Plan (EWP), and the Periodic Review Report (PRR). The Environmental Easement establishes the right of site access by the NYSDEC and institutional controls in effect at the Site. The EWP specifies monitoring, sampling, and handling requirements to be followed during site excavation activities. The annual PRR documents the implementation of and compliance with the SMP Management requirements. The PRR institutional control certification for the reporting period of June 15, 2017 through June 15, 2018 had been included as Appendix A.

Flexo has recently expanded the facility's printing capacity by erecting an addition to the manufacturing building to house a 10-color flexographic printing press. The scope of the site development, which occurred from fall 2016 through fall 2017, included:

- Construction of a 16,200-square-foot single-story metal building addition
- Construction of a 1,500-square-foot concrete pad for the oxidizer west of the addition
- Construction of a 3,900-square-foot fire lane to the south of the addition
- Construction of a new underground storm water detention basin
- Construction of an approximately 3,300-square-foot concrete pad for truck dock
- Construction of an approximately 400-square-foot concrete pad for a new power transformer
- Installation of two electric poles for primary power cutouts
- Construction of approximately 350-foot buried power lines in conduit running from a new transformer to Seneca Street
- Construction of approximately 250 feet of 6-inch water line running from a new hydrant to Seneca Street along with an aboveground aluminum heated water service enclosure on a concrete pad
- Excavation of approximately 13,239 tons of soil transported to and disposed at Waste Management Chaffee Landfill.

PERIODIC REVIEW REPORT

This report documents the ground-intrusive activities associated with the site development that have been completed in accordance with the SMP. A photograph log that documents these activities is included as Appendix B.

2 PROJECT TEAM

The table below identifies the entities and roles involved in the Project Team associated with activities subject to the SMP. Entities involved in the site development that performed activities not subject to the SMP have not been included.

Entity	Role	Responsibility
Arcadis	Environmental Consultant	Responsible for documenting and overseeing ground-intrusive activities at the Site, including conducting environmental screening, sampling, monitoring and oversight of excavated material loadout, to verify compliance with the SMP.
Hayes Construction Services	Building Construction & General Contractor	Managed the building erection and various subcontractors, including Pinto.
Pinto Construction Services	Earthwork/Construction Contractor	Completed ground-intrusive activities, including excavation and subsurface utility installation.
Tredo Engineering	Civil/Structural Engineering Consultant	Engineer of Record for building expansion.
Barron and Associates	Geotechnical Engineering Consultant	Geotechnical Engineering Consultant and Driller.
National Grid	Electric Company	Installed electrical power poles to connect the new infrastructure.

3 PROJECT TIMELINE

An overview of the project timeline is shown in the table below. Details of these activities are described in subsequent sections of this report.

Time-frame	Activity	Ground-Intrusive Activity Requiring SMP Protocol
Oct. 2016	Geotechnical and waste characterization drilling and sampling.	Yes
March 2017	The first phase of earthwork included removal of a vegetated berm with a surface area of approximately 1 acre and an elevation of up to 9 feet above the surrounding parking lot elevation. Once the parking lot excavation was achieved, excavation of the foundation was completed.	Yes
April 2017	Installation of underground stormwater infrastructure.	Yes
May 2017	Installation of electric infrastructure.	Yes
May 2017-Sept. 2017	Building erection.	Yes (Fire Lane, Concrete Pads)
Sept. 2017	Hydrant and water line installation.	Yes
Oct. 2017	Oxidizer installation and parking lot paving	No
Nov. 2017	Building occupied	No

4 HEALTH AND SAFETY

This section details the Health and Safety Plan (HASP) and Community Air Monitoring Plan developed to protect site personnel and the community adjacent to the Site during ground-intrusive work.

4.1 Health and Safety Plan

A site-specific HASP was prepared to provide safe procedures and practices for personnel conducting field work during ground-intrusive activities at the Site. The HASP was developed using the Occupational Safety and Health Administration (OSHA) 1910 and 1926 regulations and NYSDEC Brownfields DER-10 as guidance. The purpose of this HASP is to establish personnel protection standards and mandatory safety practices and procedures for this task-specific effort. The HASP plan assigns responsibilities, establishes standard operating procedures, and provides for contingencies that may arise during the field efforts. The HASP was submitted to the NYSDEC before mobilizing on site.

4.2 Community Air Monitoring Plan

Community air monitoring protocol is established by the SMP. Ambient air was monitored for dust and volatile compounds in real time during all ground-intrusive activities using a photoionization detector (PID) and a dust meter connected to internet telemetry. During major ground-intrusive activities (March 2017 through April 2017), two upwind and one downwind air monitoring units were established at the excavation perimeter. From May 2017 through September 2017, the excavation area was significantly reduced, and one upwind air monitoring unit was demobilized.

The dust concentration alarm was set at 150 micrograms per cubic meter, and the volatile concentration alarm was set to 5 parts per million (PPM). Telemetry was received on the field personnel mobile device every 15 minutes. There were no recorded exceedances above the dust or volatile thresholds during the project. Air monitoring data are available by request.

5 MATERIAL MANAGEMENT

This section details the management of materials removed from the Site and imported to the Site in compliance with the SMP protocol.

5.1 Management of Solid Waste

This section details the waste characterization, handling, transportation and disposal of excavated solid waste.

5.1.1 Waste Characterization

Most excavated material was disposed by landfill due to the lack of available space for reuse-acceptable excavated material and/or observed impacts. The waste characterization sample naming convention used the format of "WC-#," where WC stands for waste characterization. Waste characterization samples were collected in compliance with the Waste Management Chaffee Landfill frequency, parameter and collection method requirements. Samples RU-1, RU-2, and RU-3, where "RU" stands for re-use, were originally

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collected for re-use purposes, but the analytical data was used for waste characterization because the soil contained too much debris for re-use. Re-use samples were collected in compliance with the SMP frequency, parameter and collection method requirements, and the RU-1, RU-2, and RU-3 sample data was included in the waste characterization profile, in addition to the waste characterization sample data collected from the same area. The sample location and frequency were determined based on the following criteria:

- Anticipated volume of excavated material (i.e. one sample for the first 500 tons, and one sample for each 1,000 tons thereafter.)
- Screening evidence of potential contamination, such as visual, olfactory, and PID indications (i.e. change in material characteristics.)
- Vertical and lateral distribution of excavation areas across the Site

Individual waste characterization profiles were developed for each of three sources of the contamination of the excavated material. Profile information for disposal at Waste Management Chaffee Landfill, in Chaffee, New York is shown in the table below. Profiles 117471NY and 117997NY were amended from the original profile submittal to include additional samples to increase the volume approved by the landfill and/or ensure that areas not previously sampled met the approval criteria of the profile. Profiles, laboratory analytical data, and a letter from Waste Management summarizing the total tonnage per profile are included in Appendix C.

Profile	DOT-Shipping Name	Tons	Sample ID	Profile Description
117471-NY	Non-Toxic Substances Control Act (TSCA) Non-DOT Solids, N.O.S (PCB-impacted soil)	12,089	WC-1 through WC-19	Analyses from in-situ soil sampling indicates that polychlorinated biphenyl (PCB) concentrations are < 50 PPM. Original concentration of the source and the source of the PCB impacts is unknown. There is no existing documentation of spills of PCBs.
117997-NY	Non-Resource Conservation and Recovery Act (RCRA) Non-DOT Solids, N.O.S (petroleum impacted soil)	1,133	WC-21, RU-1, RU-2, RU-3	Potential historical petroleum impacts from a former filling station circa 1940s.
118238-NY	Non-RCRA Non-DOT Solids, N.O.S (ink/solvent impacted soil)	17	WC-20	Potential historical dumping of an ink-solvent mixture before current owner acquired the property through chain of ownership in 1987.

5.1.2 NYSDEC-Approved Variance from SMP Protocol

Arcadis, on behalf of Flexo, requested a variance from the SMP protocol specific to truck liners and the truck wash contained in the SMP Section A-5 Material Transport Offsite. NYSDEC granted the variance based on an alternative approach that achieved the intent of the SMP protocol to ensure that impacted material was not transferred to the roadway.

- In lieu of truck bed liners, protocol was implemented that required waste solids to pass the paint filter test, tarping of the truck bed, sweeping of residual soil on the truck, securing the truck back gate, and visually inspecting the truck before releasing from the job.

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- In lieu of a truck wash, Pinto constructed a secure loading pad that prevented the truck tires from encountering excavated soil. Trucks backed onto a loading pad constructed of a geomembrane liner, covered with stone, surrounded by jersey barriers. Excavator buckets were not overfilled, and the bucket loaded the truck over the back gate only. During demobilization, equipment was rinsed on the loading pad. The liner directed all wash water into a drum that was pumped into a frac tank. The liner and stone comprising the loading pad was disposed.

5.1.3 Stockpiling and Loading

Waste was characterized by drilling in situ before excavation in order to enable direct-loading of dump trucks. Arcadis inspected and screened excavator buckets during loading to confirm the consistency of excavated material compared with the characteristics of the material included in each waste profile. If a change in characteristic was identified, such as color, odor, sheen, or other condition, material was separately stockpiled and prohibited from off-site disposal until receipt of laboratory analytical results and approval of a profile amendment from the landfill. Material awaiting laboratory analysis was stockpiled on and covered with 6-mil polyethylene sheeting and routinely inspected to confirm that the stockpile remained protected from precipitation and wind. Arcadis provided the screening, stockpile inspection, and signature of transportation manifests.

5.1.4 Reuse of Excavated Material

In four areas, analytical data indicated non-detect and/or low levels of waste characterization parameters. Field screening did not identify visual, olfactory, or PID indications of impacts. Additional sampling was completed to determine whether the soil met the criteria for reuse. Samples were collected and analyzed using the method, frequency, and parameters dictated by the SMP Table A-1 Sample Frequency and Analysis for On-Site Soil/Fill Characterization and Table A-2 Chemical Criteria for Soil Reuse. The composite samples consisted of a combined three to five discrete samples. Discrete samples were collected for volatile analysis based on highest observed PID reading. Re-use samples were collected from the following areas:

- Stormwater basin area, sample name "Stormwater Basin"
 - 2 discrete volatile organic compounds (VOCs) samples, one composite semi-volatile organic compounds (SVOCs) sample, one composite PCB sample, and one composite metal sample
- Northern water line trench area, sample name "Water Line Trench"
 - 2 discrete (VOCs) samples, one composite SVOCs sample, one composite PCB sample, and one composite metal sample
- Fire lane area, sample name "Fire Lane"
 - 3 discrete (VOCs) samples, one composite SVOCs sample, one composite PCB sample, and one composite metal sample
- Electric line area, sample name "Electric Line Trench"
 - 2 discrete (VOCs) samples, one composite SVOCs sample, one composite PCB sample, and one composite metal sample

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All samples from these areas contained constituents at concentrations below the criteria for reuse on site. It is estimated that approximately 500 cubic yards of soil from these areas was reused on site for backfill and grading. Laboratory analytical data for the re-use sample is included in Appendix D.

5.2 Management of Liquid Waste

Groundwater and precipitation that entered open excavations was evacuated into 10,000-gallon frac tanks. A total of 37,127 gallons were treated by thermal treatment at American Recyclers Company in Tonawanda, New York. The profile and certificate of destruction are provided in Appendix C.

6 IMPORTED MATERIAL

All imported materials meet the requirements specified in the SMP, including meeting the requirements of 6 NYCRR Part 375 Environmental Remediation Programs and DER-10 Technical Guidance for Site Investigation and Remediation. The table below identifies the imported material, source of the material, and the applicable criteria that regulates importation to the Site. Appendix E contains the laboratory reports, permits, and associated correspondence and other documentation for each imported material.

Material	Source	Regulatory Reference	Regulatory Criteria	Environmental Due Diligence
1" Gravel	Gernatt Mine, Sardinea NY	DER-10 , Section 5.4.d.5 5.4. Remedial Action Implementation Compliance d. Compliance with Site Restoration Activities 5. Material other than Soil Imported to a Site	Contains less than 10% by weight material, which would pass through a size 80 sieve and consists of gravel or stone, consisting of virgin material from a permitted mine or quarry.	Certification and Laboratory Sieve Analysis
2" Run of Crush Stone	Wherle Quarry, Clarence NY		Recycled concrete or brick from a NYDEC-registered construction and demolition debris processing facility if the material conforms to requirements of Section 304 of New York Department of Transportation (NYSDOT) Standard Specifications Construction and Materials Volume 1 (2002).	Laboratory Sieve Analysis, Beneficial Use Determination, Regulatory Correspondence
Crushed Recycled Building Material	Gates Circle, Buffalo NY			
Topsoil	Inducon Park Sanborn, NY	DER-10 Appendix 5. Allowable Constituent Levels for Imported Fill or Soil, Subdivision 5.4(e) The DER-10 table is derived from soil clean-up objective (SCO) tables in 6 NYCRR 375.	Per the SMP, the sample should be analysed for Target Compound List (VOCs), SVOCs, pesticides, PCBs, and Target Analyte List metals plus cyanide. The soil will be acceptable for use as backfill provided that all parameters meet the Allowable Constituent Levels for Imported Fill or Soil for commercial or industrial site use, as provided in Appendix 5 of DER-10, summarized in SMP Table A-3.	Laboratory Chemical Analysis
Native Soil (Sand)	Children's Hospital, corner of Ellicott & High Streets, Buffalo, NY			

7 GROUND-INTRUSIVE ACTIVITIES

This section outlines activities implemented in accordance with the EWP.

7.1 Earth-Mound Excavation

Before mobilizing equipment, a security fence and erosion controls were established along the perimeter of the project area. The first phase of activities involved removal of an “earth-mound” that had been constructed following remediation of the Site in 2010. Excess soil from development and grading of the parking lot in 2010 had been consolidated into an earth-mound approximately 200 feet long by 200 feet wide with a varying elevation of up to 9 feet above the parking lot elevation. The earth-mound was vegetated with grass and situated to the west of the main manufacturing building and to the north of the parking lot on the former 1146 Seneca Avenue parcel. Excavation of the earth-mound began at the eastern side of the mound, and soil was pushed toward the loading pad established on the west side using a dozer and excavator.

7.2 Subsurface Infrastructure

Crushed concrete was used as a subbase material for the foundation of the building addition. Geotechnical fabric was used to stabilize between lifts, and 2-inch crusher run stone was compacted in 12-inch lifts to 95% or greater modified proctor. Following completion of the building foundation area, excavation, backfill, and compaction continued in the fire lane area south of the building foundation.

Next, the stormwater retention basin area was excavated. Catch basin and pipe infrastructure was installed, and the excavation was backfilled with 1-inch gravel. A layer of geotextile fabric was placed above the gravel, and 2-inch crusher run stone was placed on top and compacted. Additional infrastructure excavation, installation, and backfill included two electric power poles, approximately 350 feet of buried conduit power lines running from a new transformer to Seneca Street, and approximately 250 feet of water line connecting a hydrant to Seneca Street.

The Site Development Plan is shown as Figure 1.

7.3 Investigation and Remediation of Petroleum Impacts

During installation of the hydrant waterline, petroleum impacts in the soil were observed on the former tax parcel section 123, block 29-1, lot 10 (1146 Seneca Street). The impacts were located north of the sidewalk, east of the parking lot, and west of the neighboring community center building. Arcadis implemented an investigation and remedial action to confirm that on-site soil constituent concentrations are below the industrial soil cleanup objectives set forth in 6 NYCRR Part 375-6.8(b).

In order to address the impacts, the following activities were implemented:

- A historical records review,
- Utility location to identify potential subsurface infrastructure, such as underground storage tanks and distribution pipes,
- Delineation of impacts, including test pits and two rounds of soil borings,
- Remedial excavation of approximately 1,133 tons of non-hazardous petroleum-impacted soil,
- Installation of the originally proposed water line and fire hydrant, and
- Surface restoration.

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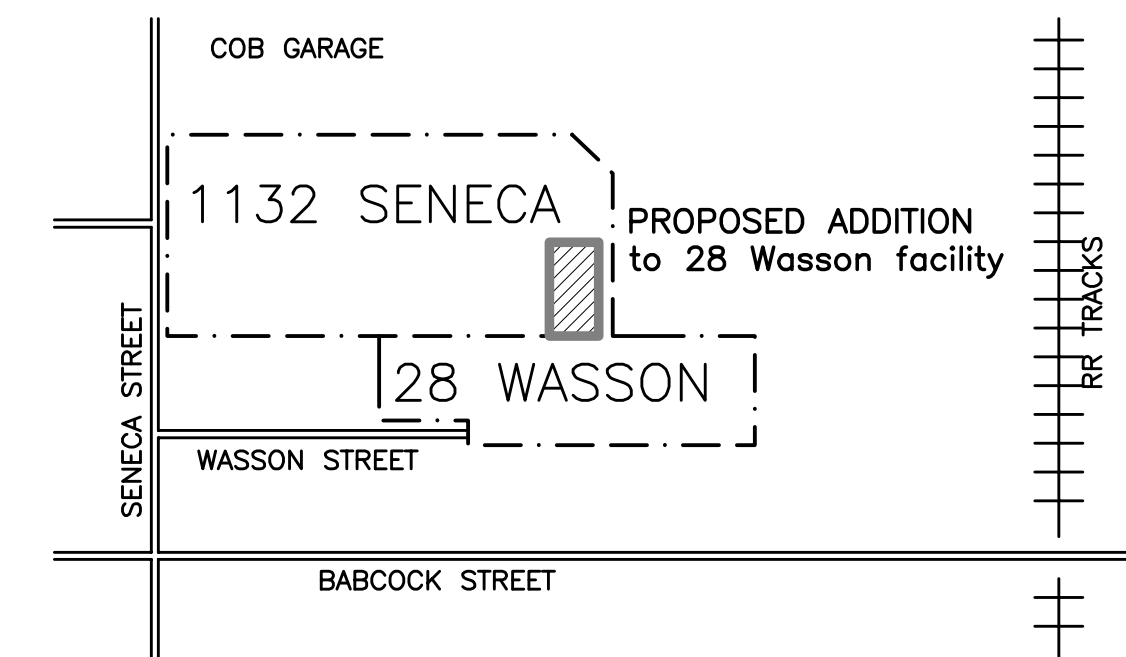
The details of the investigation and remedial action of this area are documented in the Summary of Petroleum Impacted Soil Investigation and Remediation (Arcadis 2017).

8 BUILDING EXPANSION

Flexo initiated site development in order to expand flexographic printing capabilities at the facility. The NYSDEC granted Flexo a minor modification of the Flexo facility's Title V permit to address installation of a 10-color flexographic printing press and a regenerative thermal oxidizer (RTO) to control VOC emissions from the proposed press. Upon receipt of the permit modification approval, excavation of foundation footers began, and a slab-on-grade foundation was poured. Additional concrete pads were poured for the oxidizer, truck dock, and transformer. A 16,200-square-foot single-story metal building addition to the main manufacturing building was erected to house the new press. Parking lots and walkways were paved with asphalt, and areas with a soil cap were hydroseeded to establish vegetative cover.

SITE PLAN FIGURE

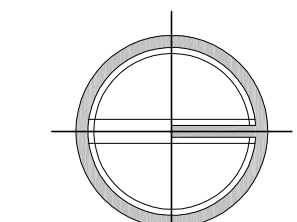




SITE LOCATION MAP

SITE LAYOUT PLAN

1" = 30'



SITE DATA

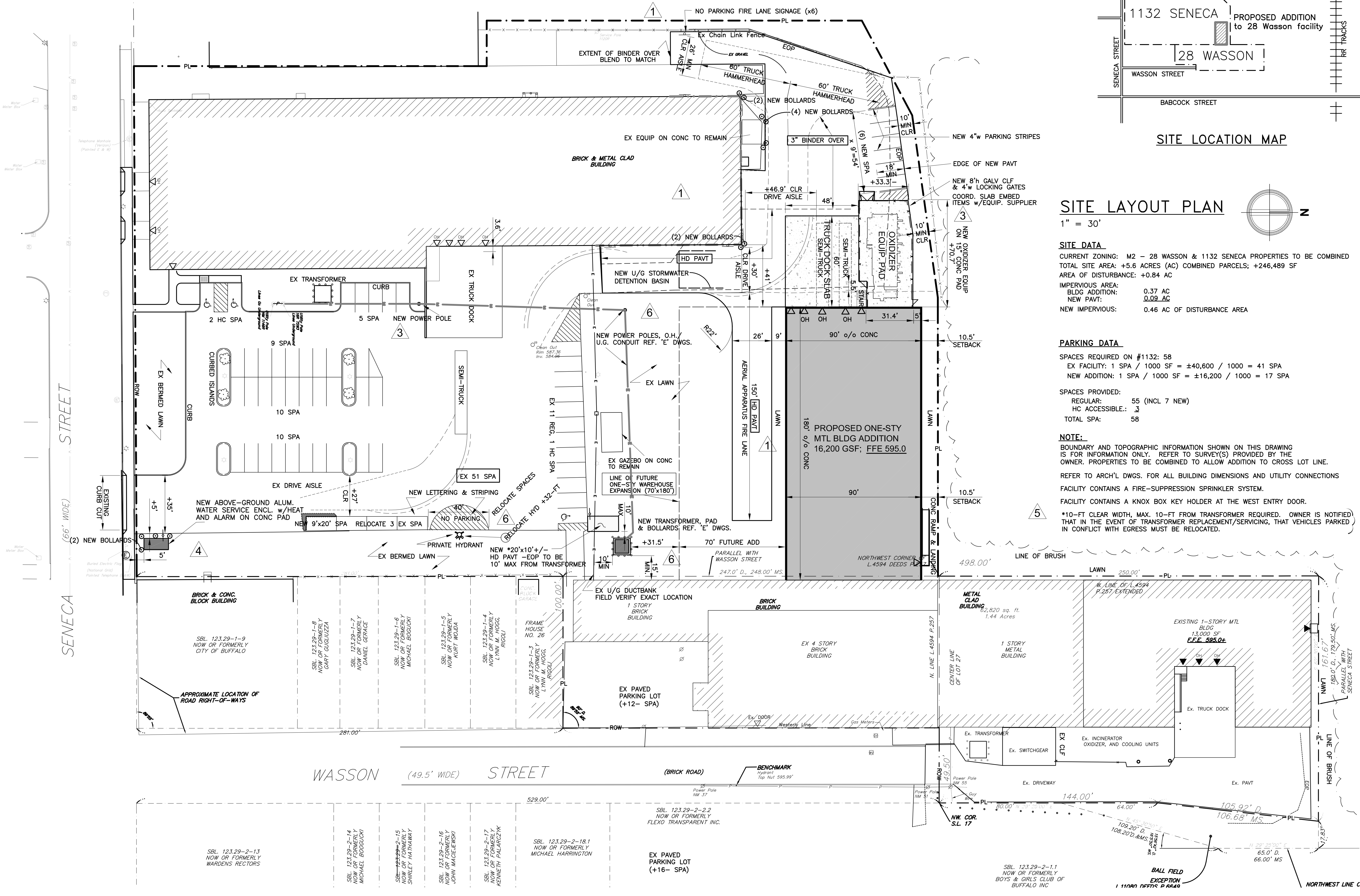
CURRENT ZONING: M2 - 28 WASSON & 1132 SENECA PROPERTIES TO BE COMBINED
TOTAL SITE AREA: +5.6 ACRES (AC) COMBINED PARCELS; +246,489 SF
AREA OF DISTURBANCE: +0.84 AC
IMPERVIOUS AREA:
BLDG ADDITION: 0.37 AC
NEW PAVT: 0.09 AC
NEW IMPERVIOUS: 0.46 AC OF DISTURBANCE AREA

PARKING DATA

SPACES REQUIRED ON #1132: 58
EX FACILITY: 1 SPA / 1000 SF = ±40,600 / 1000 = 41 SPA
NEW ADDITION: 1 SPA / 1000 SF = ±16,200 / 1000 = 17 SPA
SPACES PROVIDED:
REGULAR: 55 (INCL 7 NEW)
HC ACCESSIBLE: 3
TOTAL SPA: 58

NOTE:

BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN ON THIS DRAWING IS FOR INFORMATION ONLY. REFER TO SURVEY(S) PROVIDED BY THE OWNER. PROPERTIES TO BE COMBINED TO ALLOW ADDITION TO CROSS LOT LINE.
REFER TO ARCH'L DWGS. FOR ALL BUILDING DIMENSIONS AND UTILITY CONNECTIONS
FACILITY CONTAINS A FIRE-SUPPRESSION SPRINKLER SYSTEM.
FACILITY CONTAINS A KNOX BOX KEY HOLDER AT THE WEST ENTRY DOOR.
*10'-FT CLEAR WIDTH, MAX. 10'-FT FROM TRANSFORMER REQUIRED. OWNER IS NOTIFIED THAT IN THE EVENT OF TRANSFORMER REPLACEMENT/SERVICING, THAT VEHICLES PARKED IN CONFLICT WITH EGRESS MUST BE RELOCATED.



PROJECT NAME
**ADDITION TO:
FLEXO TRANSPARENT, INC.**
28 WASSON & 1132 SENECA STREET
BUFFALO, NY

DRAWING NAME
SITE LAYOUT PLAN

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7209, PROVISION 2, OF THE NEW YORK STATE
EDUCATION LAW.

REVISIONS	DATE
6	REVISED 3.20.2017
5	FINAL FOR CONSTRUCTION 3.20.2017
4	REVISED 3.15.2017
3	REVISION #2 2.28.2017
2	REVISION #1 2.20.2017
1	PERMIT APPL. 1.24.2017
	ADDENDUM #1

DATE	11.14.16
JOB No	16.62
CHECKED BY	AVM
DRAWN BY	AVM

DOCUMENT STATUS: PROGRESS NOT FOR CONSTRUCTION BID SET PERMIT SET FINAL FOR CONSTRUCTION

APPENDIX A

PRR Institutional Control Certification





Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



	Site Details	Box 1	
Site No. C915228			
Site Name 1132-1146 Seneca St.			
Site Address: 28 Wasson Street	Zip Code: 14210		
City/Town: Buffalo			
County: Erie			
Site Acreage: 4.2			
Reporting Period: June 15, 2017 to June 15, 2018			
		YES	NO
1. Is the information above correct?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
If NO, include handwritten above or on a separate sheet.			
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.			
5. Is the site currently undergoing development?		<input type="checkbox"/>	<input checked="" type="checkbox"/>

	Box 2	
	YES	NO
6. Is the current site use consistent with the use(s) listed below? Industrial	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Are all ICs/ECs in place and functioning as designed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.		
A Corrective Measures Work Plan must be submitted along with this form to address these issues.		
 _____ Signature of Owner, Remedial Party or Designated Representative	 _____ Date	

		Box 2A
	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.		
9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.		

SITE NO. C915228	Box 3	
Description of Institutional Controls		
<u>Parcel</u> 123-29-1-2.11	<u>Owner</u> RSB Enterprises, LLC.	<u>Institutional Control</u> Soil Management Plan Landuse Restriction Site Management Plan IC/EC Plan
EE restricts the property use to Industrial. Also prohibits the groundwater from being used for drinking water unless prior approval from DEC and DOH. SMP in place with Excavation Workplan to manage soils generated from future site work. Periodic certification required to verify that institutional controls remain in place and effective. There are no engineering controls associated with the remedy.		

	Box 4
Description of Engineering Controls	
None Required	
Not Applicable/No EC's	

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

7/5/18

Date

IC CERTIFICATIONS
SITE NO. C915228

Box 6

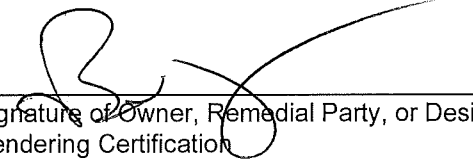
SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Brian Mabry at 28 Wasson Street, Buffalo NY 14210,
print name print business address

am certifying as President of Flexo Transparent LLC (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.



Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

7/5/18
Date

APPENDIX B

Photograph Log



PHOTOGRAPH LOG

Flexo Transparent, LLC
Building Expansion
Buffalo, NY



Photograph: 1

Description:

Behind Building No. 5 looking east toward the main manufacturing building prior to excavation.

Date: Fall 2016



Photograph: 2

Description:

Initial ground-intrusive for excavation

Date: 3/8/2017



Photograph: 3

Description:

Construction of Loading Pad

Date: 3/6/2017

PHOTOGRAPH LOG

Flexo Transparent, LLC
Building Expansion
Buffalo, NY



Photograph: 4

Description:
Excavation of “mound”
in building expansion
area

Date: 3/8/2017



Photograph: 5

Description:
Dozer moving soil
during “mound”
excavation.

Date: 3/9/2017



Photograph: 6

Description:
Excavated area at
grade after removal of
the “mound” and prior to
building construction.
One of the air
monitoring units is
shown in the distance.

Date: 4/3/2017

PHOTOGRAPH LOG

Flexo Transparent, LLC
Building Expansion
Buffalo, NY



Photograph: 7

Description:
Looking south toward Seneca Street, stormwater drainage system installation.

Date: 4/18/2017



Photograph: 8

Description:
Installation of the electrical utility conduit and excavated area for concrete pad. Photo taken just north of parking lot, facing Building No.5.

Date: 5/10/2017



Photograph: 9

Description:
Completed Building Addition, looking Northeast.

Date: 3/21/2018

APPENDIX C

Waste Documentation





January 9, 2018

Katherine Clubine
Arcadis
50 Fountain Plaza, Suite 600
Buffalo, NY 14202

RE: Flexo Transparent – Buffalo, NY

Dear Kate:

Please see below for the tonnage received at Chaffee for each profile.

<i>Profile</i>	<i>117471NY</i>	<i>117997NY</i>	<i>118238NY</i>
<i>DOT Shipping Name</i>	<i>Non-TSCA Non-DOT Solids, N.O.S (PCB impacted soil)</i>	<i>Non-RCRA Non-DOT Solids, N.O.S (petroleum impacted soil)</i>	<i>Non-RCRA Non-DOT Solids, N.O.S (ink/solvent impacted soil)</i>
<i>Landfill</i>	<i>Waste Management Chaffee Landfill Chaffee, New York</i>	<i>Waste Management Chaffee Landfill Chaffee, New York</i>	<i>Waste Management Chaffee Landfill Chaffee, New York</i>
<i>Date Range</i>	<i>3/7/2017 - 11/2/2017</i>	<i>9/6/2017 – 9/7/2017</i>	<i>9/12/2017</i>
<i>Total Tonnage</i>	<i>12,089 tons</i>	<i>1,133 tons</i>	<i>17 tons</i>

Should you have any questions regarding the above, please do not hesitate to call me at (716) 286-0405 for assistance.

Sincerely,

David Porter
Senior Industrial TSR



Requested Facility: CHAFFEE LANDFILL Unsure Profile Number: _____
 Multiple Generator Locations (Attach Locations) Request Certificate of Disposal Renewal? Original Profile Number: _____

A. GENERATOR INFORMATION (MATERIAL ORIGIN)

1. Generator Name: Flexo Transparent, LLC
2. Site Address: 1146 Seneca Street
(City, State, ZIP) Buffalo, NY 14210
3. County: Erie
4. Contact Name: Tom Neuman
5. Email: tneuman@flexotransparent.com
6. Phone: 716-541-0135 7. Fax: 716-541-0625
8. Generator EPA ID: _____ N/A
9. State ID: _____ N/A

B. BILLING INFORMATION

SAME AS GENERATOR

1. Billing Name: Pinto Construction Services, Inc.
2. Billing Address: 1 Babcock Street
(City, State, ZIP) Buffalo, NY 14210
3. Contact Name: Robert Broomfield
4. Email: rbroomfield@pintoheavyconst.com
5. Phone: 716-622-8412 6. Fax: 716-825-6773
7. WM Hauled? Yes No
8. P.O. Number: _____
9. Payment Method: Credit Account Cash Credit Card

C. MATERIAL INFORMATION

1. Common Name: Non-TSCA regulated PCB impacted soil
Describe Process Generating Material: See Attached

Excess soil generated during construction and expansion activities at a former electrical transformer manufacturing facility. PCB clean-up at the Site is regulated under the NYSDEC voluntary Brownsfield Cleanup Program.

2. Material Composition and Contaminants: See Attached

1. soil	90-98%
2. clay/stone	1-5%
3. metal, wood, brick, small chunks of concrete	1-5%
4. Total PCB 0.16 mg/kg - 11.0 mg/kg	<1%
Total composition must be equal to or greater than 100%	≥100%

3. State Waste Codes: _____ N/A
4. Color: brown
5. Physical State at 70°F: Solid Liquid Other: _____
6. Free Liquid Range Percentage: _____ to _____ N/A
7. pH: 7.8 to 8.3 N/A
8. Strong Odor: Yes No Describe: _____
9. Flash Point: <140°F 140°-199°F ≥200°F N/A
>176 F

D. REGULATORY INFORMATION

1. EPA Hazardous Waste? Yes* No
Code: _____
2. State Hazardous Waste? Yes No
Code: _____
3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion? Yes* No
4. Contains Underlying Hazardous Constituents? Yes* No
5. Contains benzene and subject to Benzene NESHAP? Yes* No
6. Facility remediation subject to 40 CFR 63 GGGGG? Yes* No
7. CERCLA or State-mandated clean-up? Yes* No
8. NRC or State-regulated radioactive or NORM waste? Yes* No
***If Yes, see Addendum (page 2) for additional questions and space.**
9. Contains PCBs? → If Yes, answer a, b and c. Yes No
a. Regulated by 40 CFR 761? Yes No
b. Remediation under 40 CFR 761.61 (a)? Yes No
c. Were PCB imported into the US? Yes No
10. Regulated and/or Untreated Medical/Infectious Waste? Yes No
11. Contains Asbestos? Yes No
→ If Yes: Non-Friable Non-Friable - Regulated Friable

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION

1. Analytical attached Yes
Please identify applicable samples and/or lab reports:

Client Project/Site: Flexo Transparent
Test America Job ID: 480-107887-1
Sample ID: WC-1 through WC-10
Lab Sample ID: 4801078871 - 48010788710

2. Other information attached (such as MSDS)? Yes

F. SHIPPING AND DOT INFORMATION

1. One-Time Event Repeat Event/Ongoing Business
2. Estimated Quantity/Unit of Measure: 9,500 tons
 Tons Yards Drums Gallons Other: _____
3. Container Type and Size: dump truck
4. USDOT Proper Shipping Name: _____ N/A
Non-TSCA Non-DOT Solids, N.O.S (PCB impacted soil)

G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)

By signing this EZ Profile™ form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytical) will be identified by the Generator and be disclosed to Waste Management prior to providing the material to Waste Management.

If I am an agent signing on behalf of the Generator, I have confirmed with the Generator that information contained in this Profile is accurate and complete.

Name (Print): Ben Girard Date: 2/10/2017
Title: Project Manager
Company: Arcadis of New York, Inc. on

behalf of Flexo Transparent, LLC

THINK GREEN®

QUESTIONS? CALL 800 963 4776 FOR ASSISTANCE

Certification Signature

FLEXO
TRANSPARENT, LLC

FLEXO TRANSPARENT, LLC

28 Wasson Street

P.O. Box 128

Buffalo, New York 14240-0128

Tel: 716/825-7710

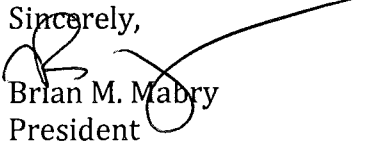
Fax: 716/825-0139

February 8, 2017

To Whom It May Concern:

Flexo Transparent, LLC hereby authorizes Arcadis of New York, Inc., on behalf of Flexo, the generator, to complete and sign non-hazardous waste disposal documents (Profiles and Manifests) during 2017 calendar year for the Flexo Seneca Street Site.

Sincerely,


Brian M. Mabry
President

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-107887-1

Client Project/Site: Flexo Transparent

For:

ARCADIS U.S. Inc

50 Fountain Plaza

Suite 600

Buffalo, New York 14202

Attn: Katherine Clubine



Authorized for release by:

10/26/2016 6:18:54 PM

Rebecca Jones, Project Management Assistant I

rebecca.jones@testamericainc.com

Designee for

Melissa Deyo, Project Manager I

(716)504-9874

melissa.deyo@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Job ID: 480-107887-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-107887-1

Receipt

The samples were received on 10/18/2016 1:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.0° C and 2.6° C.

GC/MS VOA

Method(s) 8260C: The following samples were diluted due to the nature of the TCLP sample matrix: WC-1 (480-107887-1), WC-2 (480-107887-2), WC-3 (480-107887-3), WC-4 (480-107887-4), WC-5 (480-107887-5), WC-6 (480-107887-6), WC-7 (480-107887-7), WC-8 (480-107887-8), WC-9 (480-107887-9), WC-10 (480-107887-10) and (LB 480-326404/1-A). Elevated reporting limits (RLs) are provided.

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 480-326902 recovered above the upper control limit for Hexachlorobenzene and Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: WC-1 (480-107887-1), WC-2 (480-107887-2), WC-3 (480-107887-3), WC-4 (480-107887-4), WC-5 (480-107887-5), WC-6 (480-107887-6), WC-7 (480-107887-7), WC-8 (480-107887-8), WC-9 (480-107887-9) and WC-10 (480-107887-10).

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

GC Semi VOA

Method(s) 8082A: The following samples were diluted due to the abundance of target analytes: WC-1 (480-107887-1), WC-3 (480-107887-3) and WC-6 (480-107887-6). Elevated reporting limits (RLs) are provided.

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.

General Chemistry

Method(s) 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: WC-1 (480-107887-1), WC-2 (480-107887-2), WC-3 (480-107887-3), WC-4 (480-107887-4), WC-5 (480-107887-5), WC-6 (480-107887-6), WC-7 (480-107887-7), WC-8 (480-107887-8), WC-9 (480-107887-9) and WC-10 (480-107887-10).

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.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Client Sample ID: WC-1

Lab Sample ID: 480-107887-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	Passed				mL/100g	1		9095B	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	5.6		0.56	0.26	mg/Kg	2	✳	8082A	Total/NA
PCB-1260	3.4		0.56	0.26	mg/Kg	2	✳	8082A	Total/NA
Barium	0.60	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0028		0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.0061	J	0.020	0.0030	mg/L	1		6010C	TCLP
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	7.8	HF	0.1	0.1	SU	1		9045D	Total/NA

Client Sample ID: WC-2

Lab Sample ID: 480-107887-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	Passed				mL/100g	1		9095B	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.078	J	0.28	0.055	mg/Kg	1	✳	8082A	Total/NA
PCB-1260	0.59		0.28	0.13	mg/Kg	1	✳	8082A	Total/NA
Barium	0.54	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0020		0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.0055	J	0.020	0.0030	mg/L	1		6010C	TCLP
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176		50.0	50.0	Degrees F	1		1010A	Total/NA
Sulfide, Reactive	76.8		9.6	9.6	mg/Kg	1		9034	Total/NA
pH	8.0	HF	0.1	0.1	SU	1		9045D	Total/NA

Client Sample ID: WC-3

Lab Sample ID: 480-107887-3

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	Passed				mL/100g	1		9095B	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	5.6		1.3	0.61	mg/Kg	5	✳	8082A	Total/NA
PCB-1260	5.4		1.3	0.61	mg/Kg	5	✳	8082A	Total/NA
Barium	0.41	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0021		0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.0062	J	0.020	0.0030	mg/L	1		6010C	TCLP
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176		50.0	50.0	Degrees F	1		1010A	Total/NA
Sulfide, Reactive	19.3		9.6	9.6	mg/Kg	1		9034	Total/NA
pH	7.8	HF	0.1	0.1	SU	1		9045D	Total/NA

Client Sample ID: WC-4

Lab Sample ID: 480-107887-4

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	Passed				mL/100g	1		9095B	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.12	J	0.25	0.048	mg/Kg	1	✳	8082A	Total/NA
PCB-1254	0.20	J	0.25	0.12	mg/Kg	1	✳	8082A	Total/NA
PCB-1260	0.19	J	0.25	0.12	mg/Kg	1	✳	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Client Sample ID: WC-4 (Continued)

Lab Sample ID: 480-107887-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0069	J	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	0.64	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0025		0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.011	J	0.020	0.0030	mg/L	1		6010C	TCLP
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176		50.0	50.0	Degrees F	1		1010A	Total/NA
Sulfide, Reactive	19.3		9.6	9.6	mg/Kg	1		9034	Total/NA
pH	8.0	HF	0.1	0.1	SU	1		9045D	Total/NA

Client Sample ID: WC-5

Lab Sample ID: 480-107887-5

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	Passed				mL/100g	1		9095B	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.47		0.24	0.11	mg/Kg	1	✱	8082A	Total/NA
PCB-1260	0.16	J	0.24	0.11	mg/Kg	1	✱	8082A	Total/NA
Arsenic	0.0056	J	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	0.59	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0028		0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.034		0.020	0.0030	mg/L	1		6010C	TCLP
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	8.0	HF	0.1	0.1	SU	1		9045D	Total/NA

Client Sample ID: WC-6

Lab Sample ID: 480-107887-6

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	Passed				mL/100g	1		9095B	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	11		1.2	0.55	mg/Kg	5	✱	8082A	Total/NA
Barium	0.67	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.00089	J	0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.0041	J	0.020	0.0030	mg/L	1		6010C	TCLP
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176		50.0	50.0	Degrees F	1		1010A	Total/NA
Sulfide, Reactive	19.7		9.8	9.8	mg/Kg	1		9034	Total/NA
pH	8.3	HF	0.1	0.1	SU	1		9045D	Total/NA

Client Sample ID: WC-7

Lab Sample ID: 480-107887-7

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	Passed				mL/100g	1		9095B	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.16	J	0.28	0.13	mg/Kg	1	✱	8082A	Total/NA
Arsenic	0.0071	J	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	0.57	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0011	J	0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.0031	J	0.020	0.0030	mg/L	1		6010C	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Client Sample ID: WC-7 (Continued)

Lab Sample ID: 480-107887-7

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	8.1	HF	0.1	0.1	SU	1		9045D	Total/NA

Client Sample ID: WC-8

Lab Sample ID: 480-107887-8

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	Passed				mL/100g	1		9095B	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.71		0.26	0.12	mg/Kg	1	*	8082A	Total/NA
PCB-1260	0.77		0.26	0.12	mg/Kg	1	*	8082A	Total/NA
Arsenic	0.0070	J	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	0.56	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0022		0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.0094	J	0.020	0.0030	mg/L	1		6010C	TCLP
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	8.1	HF	0.1	0.1	SU	1		9045D	Total/NA

Client Sample ID: WC-9

Lab Sample ID: 480-107887-9

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	Passed				mL/100g	1		9095B	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	1.6		0.27	0.12	mg/Kg	1	*	8082A	Total/NA
PCB-1260	1.7		0.27	0.12	mg/Kg	1	*	8082A	Total/NA
Arsenic	0.010	J	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	0.56	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0026		0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.013	J	0.020	0.0030	mg/L	1		6010C	TCLP
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	8.1	HF	0.1	0.1	SU	1		9045D	Total/NA

Client Sample ID: WC-10

Lab Sample ID: 480-107887-10

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	Passed				mL/100g	1		9095B	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.22	J	0.27	0.053	mg/Kg	1	*	8082A	Total/NA
PCB-1254	0.71		0.27	0.13	mg/Kg	1	*	8082A	Total/NA
PCB-1260	0.98		0.27	0.13	mg/Kg	1	*	8082A	Total/NA
Barium	0.47	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0016	J	0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.0037	J	0.020	0.0030	mg/L	1		6010C	TCLP
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176		50.0	50.0	Degrees F	1		1010A	Total/NA
Sulfide, Reactive	20.0		10	10	mg/Kg	1		9034	Total/NA
pH	7.9	HF	0.1	0.1	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Client Sample ID: WC-1

Lab Sample ID: 480-107887-1

Date Collected: 10/18/16 08:30

Matrix: Solid

Date Received: 10/18/16 13:30

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			10/24/16 21:51	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			10/24/16 21:51	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			10/24/16 21:51	10
Benzene	ND		0.010	0.0041	mg/L			10/24/16 21:51	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			10/24/16 21:51	10
Chlorobenzene	ND		0.010	0.0075	mg/L			10/24/16 21:51	10
Chloroform	ND		0.010	0.0034	mg/L			10/24/16 21:51	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			10/24/16 21:51	10
Trichloroethene	ND		0.010	0.0046	mg/L			10/24/16 21:51	10
Vinyl chloride	ND		0.010	0.0090	mg/L			10/24/16 21:51	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120					10/24/16 21:51	10
4-Bromofluorobenzene (Surr)	89		73 - 120					10/24/16 21:51	10
Dibromofluoromethane (Surr)	114		75 - 123					10/24/16 21:51	10
Toluene-d8 (Surr)	99		80 - 120					10/24/16 21:51	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		10/20/16 13:24	10/21/16 13:50	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		10/20/16 13:24	10/21/16 13:50	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		10/20/16 13:24	10/21/16 13:50	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		10/20/16 13:24	10/21/16 13:50	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		10/20/16 13:24	10/21/16 13:50	1
3-Methylphenol	ND		0.010	0.00040	mg/L		10/20/16 13:24	10/21/16 13:50	1
4-Methylphenol	ND		0.010	0.00036	mg/L		10/20/16 13:24	10/21/16 13:50	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		10/20/16 13:24	10/21/16 13:50	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		10/20/16 13:24	10/21/16 13:50	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		10/20/16 13:24	10/21/16 13:50	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		10/20/16 13:24	10/21/16 13:50	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		10/20/16 13:24	10/21/16 13:50	1
Pyridine	ND		0.025	0.00041	mg/L		10/20/16 13:24	10/21/16 13:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	98		52 - 132				10/20/16 13:24	10/21/16 13:50	1
2-Fluorobiphenyl	95		48 - 120				10/20/16 13:24	10/21/16 13:50	1
2-Fluorophenol (Surr)	52		20 - 120				10/20/16 13:24	10/21/16 13:50	1
Nitrobenzene-d5 (Surr)	96		46 - 120				10/20/16 13:24	10/21/16 13:50	1
Phenol-d5 (Surr)	36		16 - 120				10/20/16 13:24	10/21/16 13:50	1
p-Terphenyl-d14 (Surr)	92		67 - 150				10/20/16 13:24	10/21/16 13:50	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		10/20/16 10:45	10/21/16 17:47	1
Barium	0.60	J	1.0	0.10	mg/L		10/20/16 10:45	10/21/16 17:47	1
Cadmium	0.0028		0.0020	0.00050	mg/L		10/20/16 10:45	10/21/16 17:47	1
Chromium	ND		0.020	0.010	mg/L		10/20/16 10:45	10/21/16 17:47	1
Lead	0.0061	J	0.020	0.0030	mg/L		10/20/16 10:45	10/21/16 17:47	1
Selenium	ND		0.025	0.0087	mg/L		10/20/16 10:45	10/21/16 17:47	1
Silver	ND		0.0060	0.0017	mg/L		10/20/16 10:45	10/21/16 17:47	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Client Sample ID: WC-1

Lab Sample ID: 480-107887-1

Date Collected: 10/18/16 08:30

Matrix: Solid

Date Received: 10/18/16 13:30

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		10/20/16 11:20	10/20/16 17:13	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	Passed				mL/100g			10/21/16 17:10	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		50.0	50.0	Degrees F			10/24/16 15:05	1
Cyanide, Reactive	ND		9.7	9.7	mg/Kg		10/20/16 09:00	10/20/16 17:10	1
Sulfide, Reactive	ND		9.7	9.7	mg/Kg		10/20/16 09:00	10/20/16 14:30	1
pH	7.8	HF	0.1	0.1	SU			10/19/16 22:29	1

Client Sample ID: WC-1

Lab Sample ID: 480-107887-1

Date Collected: 10/18/16 08:30

Matrix: Solid

Date Received: 10/18/16 13:30

Percent Solids: 83.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.56	0.11	mg/Kg	✱	10/19/16 12:07	10/19/16 20:37	2
PCB-1221	ND		0.56	0.11	mg/Kg	✱	10/19/16 12:07	10/19/16 20:37	2
PCB-1232	ND		0.56	0.11	mg/Kg	✱	10/19/16 12:07	10/19/16 20:37	2
PCB-1242	ND		0.56	0.11	mg/Kg	✱	10/19/16 12:07	10/19/16 20:37	2
PCB-1248	ND		0.56	0.11	mg/Kg	✱	10/19/16 12:07	10/19/16 20:37	2
PCB-1254	5.6		0.56	0.26	mg/Kg	✱	10/19/16 12:07	10/19/16 20:37	2
PCB-1260	3.4		0.56	0.26	mg/Kg	✱	10/19/16 12:07	10/19/16 20:37	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		60 - 154				10/19/16 12:07	10/19/16 20:37	2
DCB Decachlorobiphenyl	96		65 - 174				10/19/16 12:07	10/19/16 20:37	2

Client Sample ID: WC-2

Lab Sample ID: 480-107887-2

Date Collected: 10/18/16 08:50

Matrix: Solid

Date Received: 10/18/16 13:30

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			10/24/16 22:14	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			10/24/16 22:14	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			10/24/16 22:14	10
Benzene	ND		0.010	0.0041	mg/L			10/24/16 22:14	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			10/24/16 22:14	10
Chlorobenzene	ND		0.010	0.0075	mg/L			10/24/16 22:14	10
Chloroform	ND		0.010	0.0034	mg/L			10/24/16 22:14	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			10/24/16 22:14	10
Trichloroethene	ND		0.010	0.0046	mg/L			10/24/16 22:14	10
Vinyl chloride	ND		0.010	0.0090	mg/L			10/24/16 22:14	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120					10/24/16 22:14	10
4-Bromofluorobenzene (Surr)	89		73 - 120					10/24/16 22:14	10
Dibromofluoromethane (Surr)	110		75 - 123					10/24/16 22:14	10

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Client Sample ID: WC-2

Lab Sample ID: 480-107887-2

Date Collected: 10/18/16 08:50

Matrix: Solid

Date Received: 10/18/16 13:30

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		10/24/16 22:14	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		10/20/16 13:24	10/21/16 14:15	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		10/20/16 13:24	10/21/16 14:15	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		10/20/16 13:24	10/21/16 14:15	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		10/20/16 13:24	10/21/16 14:15	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		10/20/16 13:24	10/21/16 14:15	1
3-Methylphenol	ND		0.010	0.00040	mg/L		10/20/16 13:24	10/21/16 14:15	1
4-Methylphenol	ND		0.010	0.00036	mg/L		10/20/16 13:24	10/21/16 14:15	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		10/20/16 13:24	10/21/16 14:15	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		10/20/16 13:24	10/21/16 14:15	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		10/20/16 13:24	10/21/16 14:15	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		10/20/16 13:24	10/21/16 14:15	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		10/20/16 13:24	10/21/16 14:15	1
Pyridine	ND		0.025	0.00041	mg/L		10/20/16 13:24	10/21/16 14:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	109		52 - 132	10/20/16 13:24	10/21/16 14:15	1
2-Fluorobiphenyl	98		48 - 120	10/20/16 13:24	10/21/16 14:15	1
2-Fluorophenol (Surr)	48		20 - 120	10/20/16 13:24	10/21/16 14:15	1
Nitrobenzene-d5 (Surr)	96		46 - 120	10/20/16 13:24	10/21/16 14:15	1
Phenol-d5 (Surr)	33		16 - 120	10/20/16 13:24	10/21/16 14:15	1
p-Terphenyl-d14 (Surr)	100		67 - 150	10/20/16 13:24	10/21/16 14:15	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		10/20/16 10:45	10/21/16 17:51	1
Barium	0.54	J	1.0	0.10	mg/L		10/20/16 10:45	10/21/16 17:51	1
Cadmium	0.0020		0.0020	0.00050	mg/L		10/20/16 10:45	10/21/16 17:51	1
Chromium	ND		0.020	0.010	mg/L		10/20/16 10:45	10/21/16 17:51	1
Lead	0.0055	J	0.020	0.0030	mg/L		10/20/16 10:45	10/21/16 17:51	1
Selenium	ND		0.025	0.0087	mg/L		10/20/16 10:45	10/21/16 17:51	1
Silver	ND		0.0060	0.0017	mg/L		10/20/16 10:45	10/21/16 17:51	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		10/20/16 11:20	10/20/16 17:15	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	Passed				mL/100g			10/21/16 17:10	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		50.0	50.0	Degrees F			10/24/16 15:05	1
Cyanide, Reactive	ND		9.6	9.6	mg/Kg		10/20/16 09:00	10/20/16 17:10	1
Sulfide, Reactive	76.8		9.6	9.6	mg/Kg		10/20/16 09:00	10/20/16 14:30	1
pH	8.0	HF	0.1	0.1	SU			10/19/16 22:29	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Client Sample ID: WC-2

Date Collected: 10/18/16 08:50

Date Received: 10/18/16 13:30

Lab Sample ID: 480-107887-2

Matrix: Solid

Percent Solids: 86.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.28	0.055	mg/Kg	☼	10/19/16 12:07	10/19/16 20:52	1
PCB-1221	ND		0.28	0.055	mg/Kg	☼	10/19/16 12:07	10/19/16 20:52	1
PCB-1232	ND		0.28	0.055	mg/Kg	☼	10/19/16 12:07	10/19/16 20:52	1
PCB-1242	ND		0.28	0.055	mg/Kg	☼	10/19/16 12:07	10/19/16 20:52	1
PCB-1248	0.078	J	0.28	0.055	mg/Kg	☼	10/19/16 12:07	10/19/16 20:52	1
PCB-1254	ND		0.28	0.13	mg/Kg	☼	10/19/16 12:07	10/19/16 20:52	1
PCB-1260	0.59		0.28	0.13	mg/Kg	☼	10/19/16 12:07	10/19/16 20:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	93		60 - 154				10/19/16 12:07	10/19/16 20:52	1
<i>DCB Decachlorobiphenyl</i>	106		65 - 174				10/19/16 12:07	10/19/16 20:52	1

Client Sample ID: WC-3

Date Collected: 10/18/16 09:10

Date Received: 10/18/16 13:30

Lab Sample ID: 480-107887-3

Matrix: Solid

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			10/24/16 22:37	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			10/24/16 22:37	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			10/24/16 22:37	10
Benzene	ND		0.010	0.0041	mg/L			10/24/16 22:37	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			10/24/16 22:37	10
Chlorobenzene	ND		0.010	0.0075	mg/L			10/24/16 22:37	10
Chloroform	ND		0.010	0.0034	mg/L			10/24/16 22:37	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			10/24/16 22:37	10
Trichloroethene	ND		0.010	0.0046	mg/L			10/24/16 22:37	10
Vinyl chloride	ND		0.010	0.0090	mg/L			10/24/16 22:37	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	107		77 - 120					10/24/16 22:37	10
<i>4-Bromofluorobenzene (Surr)</i>	89		73 - 120					10/24/16 22:37	10
<i>Dibromofluoromethane (Surr)</i>	111		75 - 123					10/24/16 22:37	10
<i>Toluene-d8 (Surr)</i>	100		80 - 120					10/24/16 22:37	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		10/20/16 13:24	10/21/16 14:40	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		10/20/16 13:24	10/21/16 14:40	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		10/20/16 13:24	10/21/16 14:40	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		10/20/16 13:24	10/21/16 14:40	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		10/20/16 13:24	10/21/16 14:40	1
3-Methylphenol	ND		0.010	0.00040	mg/L		10/20/16 13:24	10/21/16 14:40	1
4-Methylphenol	ND		0.010	0.00036	mg/L		10/20/16 13:24	10/21/16 14:40	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		10/20/16 13:24	10/21/16 14:40	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		10/20/16 13:24	10/21/16 14:40	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		10/20/16 13:24	10/21/16 14:40	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		10/20/16 13:24	10/21/16 14:40	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		10/20/16 13:24	10/21/16 14:40	1
Pyridine	ND		0.025	0.00041	mg/L		10/20/16 13:24	10/21/16 14:40	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Client Sample ID: WC-3

Lab Sample ID: 480-107887-3

Date Collected: 10/18/16 09:10

Matrix: Solid

Date Received: 10/18/16 13:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	100		52 - 132	10/20/16 13:24	10/21/16 14:40	1
2-Fluorobiphenyl	93		48 - 120	10/20/16 13:24	10/21/16 14:40	1
2-Fluorophenol (Surr)	47		20 - 120	10/20/16 13:24	10/21/16 14:40	1
Nitrobenzene-d5 (Surr)	93		46 - 120	10/20/16 13:24	10/21/16 14:40	1
Phenol-d5 (Surr)	32		16 - 120	10/20/16 13:24	10/21/16 14:40	1
p-Terphenyl-d14 (Surr)	94		67 - 150	10/20/16 13:24	10/21/16 14:40	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		10/20/16 10:45	10/21/16 17:54	1
Barium	0.41	J	1.0	0.10	mg/L		10/20/16 10:45	10/21/16 17:54	1
Cadmium	0.0021		0.0020	0.00050	mg/L		10/20/16 10:45	10/21/16 17:54	1
Chromium	ND		0.020	0.010	mg/L		10/20/16 10:45	10/21/16 17:54	1
Lead	0.0062	J	0.020	0.0030	mg/L		10/20/16 10:45	10/21/16 17:54	1
Selenium	ND		0.025	0.0087	mg/L		10/20/16 10:45	10/21/16 17:54	1
Silver	ND		0.0060	0.0017	mg/L		10/20/16 10:45	10/21/16 17:54	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		10/20/16 11:20	10/20/16 17:17	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	Passed				mL/100g			10/21/16 17:10	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		50.0	50.0	Degrees F			10/24/16 15:05	1
Cyanide, Reactive	ND		9.6	9.6	mg/Kg		10/20/16 09:00	10/20/16 17:10	1
Sulfide, Reactive	19.3		9.6	9.6	mg/Kg		10/20/16 09:00	10/20/16 14:30	1
pH	7.8	HF	0.1	0.1	SU			10/19/16 22:29	1

Client Sample ID: WC-3

Lab Sample ID: 480-107887-3

Date Collected: 10/18/16 09:10

Matrix: Solid

Date Received: 10/18/16 13:30

Percent Solids: 89.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.3	0.26	mg/Kg	☼	10/19/16 12:07	10/19/16 21:08	5
PCB-1221	ND		1.3	0.26	mg/Kg	☼	10/19/16 12:07	10/19/16 21:08	5
PCB-1232	ND		1.3	0.26	mg/Kg	☼	10/19/16 12:07	10/19/16 21:08	5
PCB-1242	ND		1.3	0.26	mg/Kg	☼	10/19/16 12:07	10/19/16 21:08	5
PCB-1248	ND		1.3	0.26	mg/Kg	☼	10/19/16 12:07	10/19/16 21:08	5
PCB-1254	5.6		1.3	0.61	mg/Kg	☼	10/19/16 12:07	10/19/16 21:08	5
PCB-1260	5.4		1.3	0.61	mg/Kg	☼	10/19/16 12:07	10/19/16 21:08	5
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Tetrachloro-m-xylene	109		60 - 154	10/19/16 12:07	10/19/16 21:08	5			
DCB Decachlorobiphenyl	120		65 - 174	10/19/16 12:07	10/19/16 21:08	5			

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Client Sample ID: WC-4

Lab Sample ID: 480-107887-4

Date Collected: 10/18/16 09:25

Matrix: Solid

Date Received: 10/18/16 13:30

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			10/24/16 23:00	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			10/24/16 23:00	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			10/24/16 23:00	10
Benzene	ND		0.010	0.0041	mg/L			10/24/16 23:00	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			10/24/16 23:00	10
Chlorobenzene	ND		0.010	0.0075	mg/L			10/24/16 23:00	10
Chloroform	ND		0.010	0.0034	mg/L			10/24/16 23:00	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			10/24/16 23:00	10
Trichloroethene	ND		0.010	0.0046	mg/L			10/24/16 23:00	10
Vinyl chloride	ND		0.010	0.0090	mg/L			10/24/16 23:00	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120					10/24/16 23:00	10
4-Bromofluorobenzene (Surr)	89		73 - 120					10/24/16 23:00	10
Dibromofluoromethane (Surr)	113		75 - 123					10/24/16 23:00	10
Toluene-d8 (Surr)	102		80 - 120					10/24/16 23:00	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		10/20/16 13:24	10/21/16 15:06	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		10/20/16 13:24	10/21/16 15:06	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		10/20/16 13:24	10/21/16 15:06	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		10/20/16 13:24	10/21/16 15:06	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		10/20/16 13:24	10/21/16 15:06	1
3-Methylphenol	ND		0.010	0.00040	mg/L		10/20/16 13:24	10/21/16 15:06	1
4-Methylphenol	ND		0.010	0.00036	mg/L		10/20/16 13:24	10/21/16 15:06	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		10/20/16 13:24	10/21/16 15:06	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		10/20/16 13:24	10/21/16 15:06	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		10/20/16 13:24	10/21/16 15:06	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		10/20/16 13:24	10/21/16 15:06	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		10/20/16 13:24	10/21/16 15:06	1
Pyridine	ND		0.025	0.00041	mg/L		10/20/16 13:24	10/21/16 15:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		52 - 132				10/20/16 13:24	10/21/16 15:06	1
2-Fluorobiphenyl	88		48 - 120				10/20/16 13:24	10/21/16 15:06	1
2-Fluorophenol (Surr)	45		20 - 120				10/20/16 13:24	10/21/16 15:06	1
Nitrobenzene-d5 (Surr)	84		46 - 120				10/20/16 13:24	10/21/16 15:06	1
Phenol-d5 (Surr)	33		16 - 120				10/20/16 13:24	10/21/16 15:06	1
p-Terphenyl-d14 (Surr)	95		67 - 150				10/20/16 13:24	10/21/16 15:06	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0069	J	0.015	0.0056	mg/L		10/20/16 10:45	10/21/16 18:22	1
Barium	0.64	J	1.0	0.10	mg/L		10/20/16 10:45	10/21/16 18:22	1
Cadmium	0.0025		0.0020	0.00050	mg/L		10/20/16 10:45	10/21/16 18:22	1
Chromium	ND		0.020	0.010	mg/L		10/20/16 10:45	10/21/16 18:22	1
Lead	0.011	J	0.020	0.0030	mg/L		10/20/16 10:45	10/21/16 18:22	1
Selenium	ND		0.025	0.0087	mg/L		10/20/16 10:45	10/21/16 18:22	1
Silver	ND		0.0060	0.0017	mg/L		10/20/16 10:45	10/21/16 18:22	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Client Sample ID: WC-4

Lab Sample ID: 480-107887-4

Date Collected: 10/18/16 09:25

Matrix: Solid

Date Received: 10/18/16 13:30

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		10/20/16 11:20	10/20/16 17:24	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	Passed				mL/100g			10/21/16 17:10	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		50.0	50.0	Degrees F			10/26/16 17:05	1
Cyanide, Reactive	ND		9.6	9.6	mg/Kg		10/20/16 09:00	10/20/16 17:10	1
Sulfide, Reactive	19.3		9.6	9.6	mg/Kg		10/20/16 09:00	10/20/16 14:30	1
pH	8.0	HF	0.1	0.1	SU			10/19/16 22:29	1

Client Sample ID: WC-4

Lab Sample ID: 480-107887-4

Date Collected: 10/18/16 09:25

Matrix: Solid

Date Received: 10/18/16 13:30

Percent Solids: 90.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.048	mg/Kg	✱	10/19/16 12:07	10/19/16 21:24	1
PCB-1221	ND		0.25	0.048	mg/Kg	✱	10/19/16 12:07	10/19/16 21:24	1
PCB-1232	ND		0.25	0.048	mg/Kg	✱	10/19/16 12:07	10/19/16 21:24	1
PCB-1242	ND		0.25	0.048	mg/Kg	✱	10/19/16 12:07	10/19/16 21:24	1
PCB-1248	0.12	J	0.25	0.048	mg/Kg	✱	10/19/16 12:07	10/19/16 21:24	1
PCB-1254	0.20	J	0.25	0.12	mg/Kg	✱	10/19/16 12:07	10/19/16 21:24	1
PCB-1260	0.19	J	0.25	0.12	mg/Kg	✱	10/19/16 12:07	10/19/16 21:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	94		60 - 154				10/19/16 12:07	10/19/16 21:24	1
DCB Decachlorobiphenyl	101		65 - 174				10/19/16 12:07	10/19/16 21:24	1

Client Sample ID: WC-5

Lab Sample ID: 480-107887-5

Date Collected: 10/18/16 09:45

Matrix: Solid

Date Received: 10/18/16 13:30

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			10/24/16 23:22	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			10/24/16 23:22	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			10/24/16 23:22	10
Benzene	ND		0.010	0.0041	mg/L			10/24/16 23:22	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			10/24/16 23:22	10
Chlorobenzene	ND		0.010	0.0075	mg/L			10/24/16 23:22	10
Chloroform	ND		0.010	0.0034	mg/L			10/24/16 23:22	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			10/24/16 23:22	10
Trichloroethene	ND		0.010	0.0046	mg/L			10/24/16 23:22	10
Vinyl chloride	ND		0.010	0.0090	mg/L			10/24/16 23:22	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120					10/24/16 23:22	10
4-Bromofluorobenzene (Surr)	89		73 - 120					10/24/16 23:22	10
Dibromofluoromethane (Surr)	109		75 - 123					10/24/16 23:22	10

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Client Sample ID: WC-5

Lab Sample ID: 480-107887-5

Date Collected: 10/18/16 09:45

Matrix: Solid

Date Received: 10/18/16 13:30

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		10/24/16 23:22	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		10/20/16 13:24	10/21/16 15:31	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		10/20/16 13:24	10/21/16 15:31	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		10/20/16 13:24	10/21/16 15:31	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		10/20/16 13:24	10/21/16 15:31	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		10/20/16 13:24	10/21/16 15:31	1
3-Methylphenol	ND		0.010	0.00040	mg/L		10/20/16 13:24	10/21/16 15:31	1
4-Methylphenol	ND		0.010	0.00036	mg/L		10/20/16 13:24	10/21/16 15:31	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		10/20/16 13:24	10/21/16 15:31	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		10/20/16 13:24	10/21/16 15:31	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		10/20/16 13:24	10/21/16 15:31	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		10/20/16 13:24	10/21/16 15:31	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		10/20/16 13:24	10/21/16 15:31	1
Pyridine	ND		0.025	0.00041	mg/L		10/20/16 13:24	10/21/16 15:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	89		52 - 132	10/20/16 13:24	10/21/16 15:31	1
2-Fluorobiphenyl	84		48 - 120	10/20/16 13:24	10/21/16 15:31	1
2-Fluorophenol (Surr)	44		20 - 120	10/20/16 13:24	10/21/16 15:31	1
Nitrobenzene-d5 (Surr)	78		46 - 120	10/20/16 13:24	10/21/16 15:31	1
Phenol-d5 (Surr)	31		16 - 120	10/20/16 13:24	10/21/16 15:31	1
p-Terphenyl-d14 (Surr)	86		67 - 150	10/20/16 13:24	10/21/16 15:31	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0056	J	0.015	0.0056	mg/L		10/20/16 10:45	10/21/16 18:26	1
Barium	0.59	J	1.0	0.10	mg/L		10/20/16 10:45	10/21/16 18:26	1
Cadmium	0.0028		0.0020	0.00050	mg/L		10/20/16 10:45	10/21/16 18:26	1
Chromium	ND		0.020	0.010	mg/L		10/20/16 10:45	10/21/16 18:26	1
Lead	0.034		0.020	0.0030	mg/L		10/20/16 10:45	10/21/16 18:26	1
Selenium	ND		0.025	0.0087	mg/L		10/20/16 10:45	10/21/16 18:26	1
Silver	ND		0.0060	0.0017	mg/L		10/20/16 10:45	10/21/16 18:26	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		10/20/16 11:20	10/20/16 17:26	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	Passed				mL/100g			10/21/16 17:10	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		50.0	50.0	Degrees F			10/26/16 17:05	1
Cyanide, Reactive	ND		9.9	9.9	mg/Kg		10/20/16 09:00	10/20/16 17:10	1
Sulfide, Reactive	ND		9.9	9.9	mg/Kg		10/20/16 09:00	10/20/16 14:30	1
pH	8.0	HF	0.1	0.1	SU			10/19/16 22:29	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Client Sample ID: WC-5

Lab Sample ID: 480-107887-5

Date Collected: 10/18/16 09:45

Matrix: Solid

Date Received: 10/18/16 13:30

Percent Solids: 90.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.048	mg/Kg	☼	10/19/16 12:07	10/19/16 21:39	1
PCB-1221	ND		0.24	0.048	mg/Kg	☼	10/19/16 12:07	10/19/16 21:39	1
PCB-1232	ND		0.24	0.048	mg/Kg	☼	10/19/16 12:07	10/19/16 21:39	1
PCB-1242	ND		0.24	0.048	mg/Kg	☼	10/19/16 12:07	10/19/16 21:39	1
PCB-1248	ND		0.24	0.048	mg/Kg	☼	10/19/16 12:07	10/19/16 21:39	1
PCB-1254	0.47		0.24	0.11	mg/Kg	☼	10/19/16 12:07	10/19/16 21:39	1
PCB-1260	0.16	J	0.24	0.11	mg/Kg	☼	10/19/16 12:07	10/19/16 21:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	108		60 - 154				10/19/16 12:07	10/19/16 21:39	1
<i>DCB Decachlorobiphenyl</i>	117		65 - 174				10/19/16 12:07	10/19/16 21:39	1

Client Sample ID: WC-6

Lab Sample ID: 480-107887-6

Date Collected: 10/18/16 10:10

Matrix: Solid

Date Received: 10/18/16 13:30

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			10/24/16 23:46	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			10/24/16 23:46	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			10/24/16 23:46	10
Benzene	ND		0.010	0.0041	mg/L			10/24/16 23:46	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			10/24/16 23:46	10
Chlorobenzene	ND		0.010	0.0075	mg/L			10/24/16 23:46	10
Chloroform	ND		0.010	0.0034	mg/L			10/24/16 23:46	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			10/24/16 23:46	10
Trichloroethene	ND		0.010	0.0046	mg/L			10/24/16 23:46	10
Vinyl chloride	ND		0.010	0.0090	mg/L			10/24/16 23:46	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	107		77 - 120					10/24/16 23:46	10
<i>4-Bromofluorobenzene (Surr)</i>	92		73 - 120					10/24/16 23:46	10
<i>Dibromofluoromethane (Surr)</i>	111		75 - 123					10/24/16 23:46	10
<i>Toluene-d8 (Surr)</i>	103		80 - 120					10/24/16 23:46	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		10/20/16 13:24	10/21/16 15:56	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		10/20/16 13:24	10/21/16 15:56	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		10/20/16 13:24	10/21/16 15:56	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		10/20/16 13:24	10/21/16 15:56	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		10/20/16 13:24	10/21/16 15:56	1
3-Methylphenol	ND		0.010	0.00040	mg/L		10/20/16 13:24	10/21/16 15:56	1
4-Methylphenol	ND		0.010	0.00036	mg/L		10/20/16 13:24	10/21/16 15:56	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		10/20/16 13:24	10/21/16 15:56	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		10/20/16 13:24	10/21/16 15:56	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		10/20/16 13:24	10/21/16 15:56	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		10/20/16 13:24	10/21/16 15:56	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		10/20/16 13:24	10/21/16 15:56	1
Pyridine	ND		0.025	0.00041	mg/L		10/20/16 13:24	10/21/16 15:56	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Client Sample ID: WC-6

Lab Sample ID: 480-107887-6

Date Collected: 10/18/16 10:10

Matrix: Solid

Date Received: 10/18/16 13:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		52 - 132	10/20/16 13:24	10/21/16 15:56	1
2-Fluorobiphenyl	85		48 - 120	10/20/16 13:24	10/21/16 15:56	1
2-Fluorophenol (Surr)	43		20 - 120	10/20/16 13:24	10/21/16 15:56	1
Nitrobenzene-d5 (Surr)	88		46 - 120	10/20/16 13:24	10/21/16 15:56	1
Phenol-d5 (Surr)	28		16 - 120	10/20/16 13:24	10/21/16 15:56	1
p-Terphenyl-d14 (Surr)	94		67 - 150	10/20/16 13:24	10/21/16 15:56	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		10/20/16 10:45	10/21/16 18:29	1
Barium	0.67	J	1.0	0.10	mg/L		10/20/16 10:45	10/21/16 18:29	1
Cadmium	0.00089	J	0.0020	0.00050	mg/L		10/20/16 10:45	10/21/16 18:29	1
Chromium	ND		0.020	0.010	mg/L		10/20/16 10:45	10/21/16 18:29	1
Lead	0.0041	J	0.020	0.0030	mg/L		10/20/16 10:45	10/21/16 18:29	1
Selenium	ND		0.025	0.0087	mg/L		10/20/16 10:45	10/21/16 18:29	1
Silver	ND		0.0060	0.0017	mg/L		10/20/16 10:45	10/21/16 18:29	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		10/20/16 11:20	10/20/16 17:33	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	Passed				mL/100g			10/21/16 17:10	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		50.0	50.0	Degrees F			10/26/16 17:05	1
Cyanide, Reactive	ND		9.8	9.8	mg/Kg		10/20/16 09:00	10/20/16 17:10	1
Sulfide, Reactive	19.7		9.8	9.8	mg/Kg		10/20/16 09:00	10/20/16 14:30	1
pH	8.3	HF	0.1	0.1	SU			10/19/16 22:29	1

Client Sample ID: WC-6

Lab Sample ID: 480-107887-6

Date Collected: 10/18/16 10:10

Matrix: Solid

Date Received: 10/18/16 13:30

Percent Solids: 86.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.2	0.23	mg/Kg	☼	10/19/16 12:07	10/19/16 21:55	5
PCB-1221	ND		1.2	0.23	mg/Kg	☼	10/19/16 12:07	10/19/16 21:55	5
PCB-1232	ND		1.2	0.23	mg/Kg	☼	10/19/16 12:07	10/19/16 21:55	5
PCB-1242	ND		1.2	0.23	mg/Kg	☼	10/19/16 12:07	10/19/16 21:55	5
PCB-1248	ND		1.2	0.23	mg/Kg	☼	10/19/16 12:07	10/19/16 21:55	5
PCB-1254	11		1.2	0.55	mg/Kg	☼	10/19/16 12:07	10/19/16 21:55	5
PCB-1260	ND		1.2	0.55	mg/Kg	☼	10/19/16 12:07	10/19/16 21:55	5
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Tetrachloro-m-xylene	103		60 - 154	10/19/16 12:07	10/19/16 21:55	5			
DCB Decachlorobiphenyl	110		65 - 174	10/19/16 12:07	10/19/16 21:55	5			

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Client Sample ID: WC-7

Lab Sample ID: 480-107887-7

Date Collected: 10/18/16 10:25

Matrix: Solid

Date Received: 10/18/16 13:30

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			10/25/16 00:09	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			10/25/16 00:09	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			10/25/16 00:09	10
Benzene	ND		0.010	0.0041	mg/L			10/25/16 00:09	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			10/25/16 00:09	10
Chlorobenzene	ND		0.010	0.0075	mg/L			10/25/16 00:09	10
Chloroform	ND		0.010	0.0034	mg/L			10/25/16 00:09	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			10/25/16 00:09	10
Trichloroethene	ND		0.010	0.0046	mg/L			10/25/16 00:09	10
Vinyl chloride	ND		0.010	0.0090	mg/L			10/25/16 00:09	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					10/25/16 00:09	10
4-Bromofluorobenzene (Surr)	89		73 - 120					10/25/16 00:09	10
Dibromofluoromethane (Surr)	108		75 - 123					10/25/16 00:09	10
Toluene-d8 (Surr)	101		80 - 120					10/25/16 00:09	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		10/20/16 13:24	10/21/16 16:21	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		10/20/16 13:24	10/21/16 16:21	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		10/20/16 13:24	10/21/16 16:21	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		10/20/16 13:24	10/21/16 16:21	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		10/20/16 13:24	10/21/16 16:21	1
3-Methylphenol	ND		0.010	0.00040	mg/L		10/20/16 13:24	10/21/16 16:21	1
4-Methylphenol	ND		0.010	0.00036	mg/L		10/20/16 13:24	10/21/16 16:21	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		10/20/16 13:24	10/21/16 16:21	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		10/20/16 13:24	10/21/16 16:21	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		10/20/16 13:24	10/21/16 16:21	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		10/20/16 13:24	10/21/16 16:21	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		10/20/16 13:24	10/21/16 16:21	1
Pyridine	ND		0.025	0.00041	mg/L		10/20/16 13:24	10/21/16 16:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	93		52 - 132				10/20/16 13:24	10/21/16 16:21	1
2-Fluorobiphenyl	92		48 - 120				10/20/16 13:24	10/21/16 16:21	1
2-Fluorophenol (Surr)	48		20 - 120				10/20/16 13:24	10/21/16 16:21	1
Nitrobenzene-d5 (Surr)	91		46 - 120				10/20/16 13:24	10/21/16 16:21	1
Phenol-d5 (Surr)	33		16 - 120				10/20/16 13:24	10/21/16 16:21	1
p-Terphenyl-d14 (Surr)	89		67 - 150				10/20/16 13:24	10/21/16 16:21	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0071	J	0.015	0.0056	mg/L		10/20/16 10:45	10/21/16 18:33	1
Barium	0.57	J	1.0	0.10	mg/L		10/20/16 10:45	10/21/16 18:33	1
Cadmium	0.0011	J	0.0020	0.00050	mg/L		10/20/16 10:45	10/21/16 18:33	1
Chromium	ND		0.020	0.010	mg/L		10/20/16 10:45	10/21/16 18:33	1
Lead	0.0031	J	0.020	0.0030	mg/L		10/20/16 10:45	10/21/16 18:33	1
Selenium	ND		0.025	0.0087	mg/L		10/20/16 10:45	10/21/16 18:33	1
Silver	ND		0.0060	0.0017	mg/L		10/20/16 10:45	10/21/16 18:33	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Client Sample ID: WC-7

Lab Sample ID: 480-107887-7

Date Collected: 10/18/16 10:25

Matrix: Solid

Date Received: 10/18/16 13:30

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		10/20/16 11:20	10/20/16 17:35	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	Passed				mL/100g			10/21/16 17:10	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		50.0	50.0	Degrees F			10/26/16 17:05	1
Cyanide, Reactive	ND		9.8	9.8	mg/Kg		10/20/16 09:00	10/20/16 17:10	1
Sulfide, Reactive	ND		9.8	9.8	mg/Kg		10/20/16 09:00	10/20/16 14:30	1
pH	8.1	HF	0.1	0.1	SU			10/19/16 22:29	1

Client Sample ID: WC-7

Lab Sample ID: 480-107887-7

Date Collected: 10/18/16 10:25

Matrix: Solid

Date Received: 10/18/16 13:30

Percent Solids: 86.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.28	0.056	mg/Kg	✱	10/19/16 12:07	10/19/16 22:11	1
PCB-1221	ND		0.28	0.056	mg/Kg	✱	10/19/16 12:07	10/19/16 22:11	1
PCB-1232	ND		0.28	0.056	mg/Kg	✱	10/19/16 12:07	10/19/16 22:11	1
PCB-1242	ND		0.28	0.056	mg/Kg	✱	10/19/16 12:07	10/19/16 22:11	1
PCB-1248	ND		0.28	0.056	mg/Kg	✱	10/19/16 12:07	10/19/16 22:11	1
PCB-1254	0.16	J	0.28	0.13	mg/Kg	✱	10/19/16 12:07	10/19/16 22:11	1
PCB-1260	ND		0.28	0.13	mg/Kg	✱	10/19/16 12:07	10/19/16 22:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	101		60 - 154				10/19/16 12:07	10/19/16 22:11	1
DCB Decachlorobiphenyl	108		65 - 174				10/19/16 12:07	10/19/16 22:11	1

Client Sample ID: WC-8

Lab Sample ID: 480-107887-8

Date Collected: 10/18/16 10:35

Matrix: Solid

Date Received: 10/18/16 13:30

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			10/25/16 00:32	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			10/25/16 00:32	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			10/25/16 00:32	10
Benzene	ND		0.010	0.0041	mg/L			10/25/16 00:32	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			10/25/16 00:32	10
Chlorobenzene	ND		0.010	0.0075	mg/L			10/25/16 00:32	10
Chloroform	ND		0.010	0.0034	mg/L			10/25/16 00:32	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			10/25/16 00:32	10
Trichloroethene	ND		0.010	0.0046	mg/L			10/25/16 00:32	10
Vinyl chloride	ND		0.010	0.0090	mg/L			10/25/16 00:32	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120					10/25/16 00:32	10
4-Bromofluorobenzene (Surr)	90		73 - 120					10/25/16 00:32	10
Dibromofluoromethane (Surr)	113		75 - 123					10/25/16 00:32	10

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Client Sample ID: WC-8

Lab Sample ID: 480-107887-8

Date Collected: 10/18/16 10:35

Matrix: Solid

Date Received: 10/18/16 13:30

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		10/25/16 00:32	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		10/20/16 13:24	10/21/16 16:47	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		10/20/16 13:24	10/21/16 16:47	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		10/20/16 13:24	10/21/16 16:47	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		10/20/16 13:24	10/21/16 16:47	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		10/20/16 13:24	10/21/16 16:47	1
3-Methylphenol	ND		0.010	0.00040	mg/L		10/20/16 13:24	10/21/16 16:47	1
4-Methylphenol	ND		0.010	0.00036	mg/L		10/20/16 13:24	10/21/16 16:47	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		10/20/16 13:24	10/21/16 16:47	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		10/20/16 13:24	10/21/16 16:47	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		10/20/16 13:24	10/21/16 16:47	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		10/20/16 13:24	10/21/16 16:47	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		10/20/16 13:24	10/21/16 16:47	1
Pyridine	ND		0.025	0.00041	mg/L		10/20/16 13:24	10/21/16 16:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	106		52 - 132	10/20/16 13:24	10/21/16 16:47	1
2-Fluorobiphenyl	98		48 - 120	10/20/16 13:24	10/21/16 16:47	1
2-Fluorophenol (Surr)	48		20 - 120	10/20/16 13:24	10/21/16 16:47	1
Nitrobenzene-d5 (Surr)	94		46 - 120	10/20/16 13:24	10/21/16 16:47	1
Phenol-d5 (Surr)	34		16 - 120	10/20/16 13:24	10/21/16 16:47	1
p-Terphenyl-d14 (Surr)	93		67 - 150	10/20/16 13:24	10/21/16 16:47	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0070	J	0.015	0.0056	mg/L		10/20/16 10:45	10/21/16 18:37	1
Barium	0.56	J	1.0	0.10	mg/L		10/20/16 10:45	10/21/16 18:37	1
Cadmium	0.0022		0.0020	0.00050	mg/L		10/20/16 10:45	10/21/16 18:37	1
Chromium	ND		0.020	0.010	mg/L		10/20/16 10:45	10/21/16 18:37	1
Lead	0.0094	J	0.020	0.0030	mg/L		10/20/16 10:45	10/21/16 18:37	1
Selenium	ND		0.025	0.0087	mg/L		10/20/16 10:45	10/21/16 18:37	1
Silver	ND		0.0060	0.0017	mg/L		10/20/16 10:45	10/21/16 18:37	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		10/20/16 11:20	10/20/16 17:36	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	Passed				mL/100g			10/21/16 17:10	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		50.0	50.0	Degrees F			10/26/16 17:05	1
Cyanide, Reactive	ND		9.9	9.9	mg/Kg		10/20/16 09:00	10/20/16 17:10	1
Sulfide, Reactive	ND		9.9	9.9	mg/Kg		10/20/16 09:00	10/20/16 14:30	1
pH	8.1	HF	0.1	0.1	SU			10/19/16 22:29	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Client Sample ID: WC-8

Lab Sample ID: 480-107887-8

Date Collected: 10/18/16 10:35

Matrix: Solid

Date Received: 10/18/16 13:30

Percent Solids: 86.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.051	mg/Kg	☼	10/19/16 12:07	10/19/16 22:27	1
PCB-1221	ND		0.26	0.051	mg/Kg	☼	10/19/16 12:07	10/19/16 22:27	1
PCB-1232	ND		0.26	0.051	mg/Kg	☼	10/19/16 12:07	10/19/16 22:27	1
PCB-1242	ND		0.26	0.051	mg/Kg	☼	10/19/16 12:07	10/19/16 22:27	1
PCB-1248	ND		0.26	0.051	mg/Kg	☼	10/19/16 12:07	10/19/16 22:27	1
PCB-1254	0.71		0.26	0.12	mg/Kg	☼	10/19/16 12:07	10/19/16 22:27	1
PCB-1260	0.77		0.26	0.12	mg/Kg	☼	10/19/16 12:07	10/19/16 22:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	106		60 - 154				10/19/16 12:07	10/19/16 22:27	1
DCB Decachlorobiphenyl	131		65 - 174				10/19/16 12:07	10/19/16 22:27	1

Client Sample ID: WC-9

Lab Sample ID: 480-107887-9

Date Collected: 10/18/16 10:45

Matrix: Solid

Date Received: 10/18/16 13:30

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			10/25/16 00:55	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			10/25/16 00:55	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			10/25/16 00:55	10
Benzene	ND		0.010	0.0041	mg/L			10/25/16 00:55	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			10/25/16 00:55	10
Chlorobenzene	ND		0.010	0.0075	mg/L			10/25/16 00:55	10
Chloroform	ND		0.010	0.0034	mg/L			10/25/16 00:55	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			10/25/16 00:55	10
Trichloroethene	ND		0.010	0.0046	mg/L			10/25/16 00:55	10
Vinyl chloride	ND		0.010	0.0090	mg/L			10/25/16 00:55	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120					10/25/16 00:55	10
4-Bromofluorobenzene (Surr)	87		73 - 120					10/25/16 00:55	10
Dibromofluoromethane (Surr)	109		75 - 123					10/25/16 00:55	10
Toluene-d8 (Surr)	100		80 - 120					10/25/16 00:55	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		10/20/16 13:24	10/21/16 17:12	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		10/20/16 13:24	10/21/16 17:12	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		10/20/16 13:24	10/21/16 17:12	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		10/20/16 13:24	10/21/16 17:12	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		10/20/16 13:24	10/21/16 17:12	1
3-Methylphenol	ND		0.010	0.00040	mg/L		10/20/16 13:24	10/21/16 17:12	1
4-Methylphenol	ND		0.010	0.00036	mg/L		10/20/16 13:24	10/21/16 17:12	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		10/20/16 13:24	10/21/16 17:12	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		10/20/16 13:24	10/21/16 17:12	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		10/20/16 13:24	10/21/16 17:12	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		10/20/16 13:24	10/21/16 17:12	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		10/20/16 13:24	10/21/16 17:12	1
Pyridine	ND		0.025	0.00041	mg/L		10/20/16 13:24	10/21/16 17:12	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Client Sample ID: WC-9

Lab Sample ID: 480-107887-9

Date Collected: 10/18/16 10:45

Matrix: Solid

Date Received: 10/18/16 13:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	98		52 - 132	10/20/16 13:24	10/21/16 17:12	1
2-Fluorobiphenyl	88		48 - 120	10/20/16 13:24	10/21/16 17:12	1
2-Fluorophenol (Surr)	45		20 - 120	10/20/16 13:24	10/21/16 17:12	1
Nitrobenzene-d5 (Surr)	92		46 - 120	10/20/16 13:24	10/21/16 17:12	1
Phenol-d5 (Surr)	30		16 - 120	10/20/16 13:24	10/21/16 17:12	1
p-Terphenyl-d14 (Surr)	92		67 - 150	10/20/16 13:24	10/21/16 17:12	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.010	J	0.015	0.0056	mg/L		10/20/16 10:45	10/21/16 18:40	1
Barium	0.56	J	1.0	0.10	mg/L		10/20/16 10:45	10/21/16 18:40	1
Cadmium	0.0026		0.0020	0.00050	mg/L		10/20/16 10:45	10/21/16 18:40	1
Chromium	ND		0.020	0.010	mg/L		10/20/16 10:45	10/21/16 18:40	1
Lead	0.013	J	0.020	0.0030	mg/L		10/20/16 10:45	10/21/16 18:40	1
Selenium	ND		0.025	0.0087	mg/L		10/20/16 10:45	10/21/16 18:40	1
Silver	ND		0.0060	0.0017	mg/L		10/20/16 10:45	10/21/16 18:40	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		10/20/16 11:20	10/20/16 17:38	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	Passed				mL/100g			10/21/16 17:10	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		50.0	50.0	Degrees F			10/26/16 17:05	1
Cyanide, Reactive	ND		9.7	9.7	mg/Kg		10/20/16 09:00	10/20/16 17:10	1
Sulfide, Reactive	ND		9.7	9.7	mg/Kg		10/20/16 09:00	10/20/16 14:30	1
pH	8.1	HF	0.1	0.1	SU			10/19/16 22:29	1

Client Sample ID: WC-9

Lab Sample ID: 480-107887-9

Date Collected: 10/18/16 10:45

Matrix: Solid

Date Received: 10/18/16 13:30

Percent Solids: 81.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.052	mg/Kg	☼	10/19/16 12:07	10/19/16 22:43	1
PCB-1221	ND		0.27	0.052	mg/Kg	☼	10/19/16 12:07	10/19/16 22:43	1
PCB-1232	ND		0.27	0.052	mg/Kg	☼	10/19/16 12:07	10/19/16 22:43	1
PCB-1242	ND		0.27	0.052	mg/Kg	☼	10/19/16 12:07	10/19/16 22:43	1
PCB-1248	ND		0.27	0.052	mg/Kg	☼	10/19/16 12:07	10/19/16 22:43	1
PCB-1254	1.6		0.27	0.12	mg/Kg	☼	10/19/16 12:07	10/19/16 22:43	1
PCB-1260	1.7		0.27	0.12	mg/Kg	☼	10/19/16 12:07	10/19/16 22:43	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Tetrachloro-m-xylene	108		60 - 154	10/19/16 12:07	10/19/16 22:43	1			
DCB Decachlorobiphenyl	120		65 - 174	10/19/16 12:07	10/19/16 22:43	1			

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Client Sample ID: WC-10
Date Collected: 10/18/16 11:10
Date Received: 10/18/16 13:30

Lab Sample ID: 480-107887-10
Matrix: Solid

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			10/25/16 01:18	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			10/25/16 01:18	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			10/25/16 01:18	10
Benzene	ND		0.010	0.0041	mg/L			10/25/16 01:18	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			10/25/16 01:18	10
Chlorobenzene	ND		0.010	0.0075	mg/L			10/25/16 01:18	10
Chloroform	ND		0.010	0.0034	mg/L			10/25/16 01:18	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			10/25/16 01:18	10
Trichloroethene	ND		0.010	0.0046	mg/L			10/25/16 01:18	10
Vinyl chloride	ND		0.010	0.0090	mg/L			10/25/16 01:18	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120					10/25/16 01:18	10
4-Bromofluorobenzene (Surr)	90		73 - 120					10/25/16 01:18	10
Dibromofluoromethane (Surr)	114		75 - 123					10/25/16 01:18	10
Toluene-d8 (Surr)	101		80 - 120					10/25/16 01:18	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		10/20/16 13:24	10/21/16 17:37	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		10/20/16 13:24	10/21/16 17:37	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		10/20/16 13:24	10/21/16 17:37	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		10/20/16 13:24	10/21/16 17:37	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		10/20/16 13:24	10/21/16 17:37	1
3-Methylphenol	ND		0.010	0.00040	mg/L		10/20/16 13:24	10/21/16 17:37	1
4-Methylphenol	ND		0.010	0.00036	mg/L		10/20/16 13:24	10/21/16 17:37	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		10/20/16 13:24	10/21/16 17:37	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		10/20/16 13:24	10/21/16 17:37	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		10/20/16 13:24	10/21/16 17:37	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		10/20/16 13:24	10/21/16 17:37	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		10/20/16 13:24	10/21/16 17:37	1
Pyridine	ND		0.025	0.00041	mg/L		10/20/16 13:24	10/21/16 17:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	78		52 - 132				10/20/16 13:24	10/21/16 17:37	1
2-Fluorobiphenyl	74		48 - 120				10/20/16 13:24	10/21/16 17:37	1
2-Fluorophenol (Surr)	35		20 - 120				10/20/16 13:24	10/21/16 17:37	1
Nitrobenzene-d5 (Surr)	76		46 - 120				10/20/16 13:24	10/21/16 17:37	1
Phenol-d5 (Surr)	25		16 - 120				10/20/16 13:24	10/21/16 17:37	1
p-Terphenyl-d14 (Surr)	77		67 - 150				10/20/16 13:24	10/21/16 17:37	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		10/20/16 10:45	10/21/16 18:44	1
Barium	0.47	J	1.0	0.10	mg/L		10/20/16 10:45	10/21/16 18:44	1
Cadmium	0.0016	J	0.0020	0.00050	mg/L		10/20/16 10:45	10/21/16 18:44	1
Chromium	ND		0.020	0.010	mg/L		10/20/16 10:45	10/21/16 18:44	1
Lead	0.0037	J	0.020	0.0030	mg/L		10/20/16 10:45	10/21/16 18:44	1
Selenium	ND		0.025	0.0087	mg/L		10/20/16 10:45	10/21/16 18:44	1
Silver	ND		0.0060	0.0017	mg/L		10/20/16 10:45	10/21/16 18:44	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Client Sample ID: WC-10
Date Collected: 10/18/16 11:10
Date Received: 10/18/16 13:30

Lab Sample ID: 480-107887-10
Matrix: Solid

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		10/20/16 11:20	10/20/16 17:40	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	Passed				mL/100g			10/21/16 17:10	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		50.0	50.0	Degrees F			10/26/16 17:05	1
Cyanide, Reactive	ND		10	10	mg/Kg		10/20/16 09:00	10/20/16 17:10	1
Sulfide, Reactive	20.0		10	10	mg/Kg		10/20/16 09:00	10/20/16 14:30	1
pH	7.9	HF	0.1	0.1	SU			10/19/16 22:29	1

Client Sample ID: WC-10
Date Collected: 10/18/16 11:10
Date Received: 10/18/16 13:30

Lab Sample ID: 480-107887-10
Matrix: Solid
Percent Solids: 87.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.053	mg/Kg	✱	10/19/16 12:07	10/19/16 22:59	1
PCB-1221	ND		0.27	0.053	mg/Kg	✱	10/19/16 12:07	10/19/16 22:59	1
PCB-1232	ND		0.27	0.053	mg/Kg	✱	10/19/16 12:07	10/19/16 22:59	1
PCB-1242	ND		0.27	0.053	mg/Kg	✱	10/19/16 12:07	10/19/16 22:59	1
PCB-1248	0.22	J	0.27	0.053	mg/Kg	✱	10/19/16 12:07	10/19/16 22:59	1
PCB-1254	0.71		0.27	0.13	mg/Kg	✱	10/19/16 12:07	10/19/16 22:59	1
PCB-1260	0.98		0.27	0.13	mg/Kg	✱	10/19/16 12:07	10/19/16 22:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	102		60 - 154	10/19/16 12:07	10/19/16 22:59	1
DCB Decachlorobiphenyl	111		65 - 174	10/19/16 12:07	10/19/16 22:59	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
LCS 480-327379/4	Lab Control Sample	99	95	105	104
MB 480-327379/6	Method Blank	106	93	110	101

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-107887-1	WC-1	108	89	114	99
480-107887-2	WC-2	107	89	110	102
480-107887-3	WC-3	107	89	111	100
480-107887-4	WC-4	108	89	113	102
480-107887-5	WC-5	105	89	109	100
480-107887-6	WC-6	107	92	111	103
480-107887-7	WC-7	102	89	108	101
480-107887-8	WC-8	107	90	113	102
480-107887-9	WC-9	105	87	109	100
480-107887-10	WC-10	108	90	114	101
LB 480-326404/1-A	Method Blank	108	91	111	100

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (52-132)	FBP (48-120)	2FP (20-120)	NBZ (46-120)	PHL (16-120)	TPH (67-150)
LCS 480-326752/2-A	Lab Control Sample	110	88	46	86	35	93
MB 480-326752/1-A	Method Blank	79	92	48	87	35	93

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = p-Terphenyl-d14 (Surr)

TestAmerica Buffalo

Surrogate Summary

Client: ARCADIS U.S. Inc
 Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (52-132)	FBP (48-120)	2FP (20-120)	NBZ (46-120)	PHL (16-120)	TPH (67-150)
480-107887-1	WC-1	98	95	52	96	36	92
480-107887-2	WC-2	109	98	48	96	33	100
480-107887-3	WC-3	100	93	47	93	32	94
480-107887-4	WC-4	88	88	45	84	33	95
480-107887-5	WC-5	89	84	44	78	31	86
480-107887-6	WC-6	88	85	43	88	28	94
480-107887-7	WC-7	93	92	48	91	33	89
480-107887-8	WC-8	106	98	48	94	34	93
480-107887-9	WC-9	98	88	45	92	30	92
480-107887-10	WC-10	78	74	35	76	25	77
LB 480-326401/1-D	Method Blank	96	95	48	91	32	93

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPH = p-Terphenyl-d14 (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (60-154)	DCB1 (65-174)
480-107887-1	WC-1	81	96
480-107887-2	WC-2	93	106
480-107887-3	WC-3	109	120
480-107887-4	WC-4	94	101
480-107887-5	WC-5	108	117
480-107887-6	WC-6	103	110
480-107887-7	WC-7	101	108
480-107887-8	WC-8	106	131
480-107887-9	WC-9	108	120
480-107887-10	WC-10	102	111
LCS 480-326472/2-A	Lab Control Sample	136	157
MB 480-326472/1-A	Method Blank	121	139

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-327379/6

Matrix: Solid

Analysis Batch: 327379

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			10/24/16 20:43	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			10/24/16 20:43	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			10/24/16 20:43	1
Benzene	ND		0.0010	0.00041	mg/L			10/24/16 20:43	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			10/24/16 20:43	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			10/24/16 20:43	1
Chloroform	ND		0.0010	0.00034	mg/L			10/24/16 20:43	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			10/24/16 20:43	1
Trichloroethene	ND		0.0010	0.00046	mg/L			10/24/16 20:43	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			10/24/16 20:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		10/24/16 20:43	1
4-Bromofluorobenzene (Surr)	93		73 - 120		10/24/16 20:43	1
Dibromofluoromethane (Surr)	110		75 - 123		10/24/16 20:43	1
Toluene-d8 (Surr)	101		80 - 120		10/24/16 20:43	1

Lab Sample ID: LCS 480-327379/4

Matrix: Solid

Analysis Batch: 327379

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0250	0.0200		mg/L		80	66 - 127
1,2-Dichloroethane	0.0250	0.0233		mg/L		93	75 - 120
2-Butanone (MEK)	0.125	0.104		mg/L		83	57 - 140
Benzene	0.0250	0.0246		mg/L		98	71 - 124
Carbon tetrachloride	0.0250	0.0255		mg/L		102	72 - 134
Chlorobenzene	0.0250	0.0239		mg/L		96	80 - 120
Chloroform	0.0250	0.0235		mg/L		94	73 - 127
Tetrachloroethene	0.0250	0.0244		mg/L		97	74 - 122
Trichloroethene	0.0250	0.0222		mg/L		89	74 - 123
Vinyl chloride	0.0250	0.0217		mg/L		87	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		77 - 120
4-Bromofluorobenzene (Surr)	95		73 - 120
Dibromofluoromethane (Surr)	105		75 - 123
Toluene-d8 (Surr)	104		80 - 120

Lab Sample ID: LB 480-326404/1-A

Matrix: Solid

Analysis Batch: 327379

Client Sample ID: Method Blank

Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			10/24/16 21:28	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			10/24/16 21:28	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			10/24/16 21:28	10

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB 480-326404/1-A

Matrix: Solid

Analysis Batch: 327379

Client Sample ID: Method Blank

Prep Type: TCLP

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.010	0.0041	mg/L			10/24/16 21:28	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			10/24/16 21:28	10
Chlorobenzene	ND		0.010	0.0075	mg/L			10/24/16 21:28	10
Chloroform	ND		0.010	0.0034	mg/L			10/24/16 21:28	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			10/24/16 21:28	10
Trichloroethene	ND		0.010	0.0046	mg/L			10/24/16 21:28	10
Vinyl chloride	ND		0.010	0.0090	mg/L			10/24/16 21:28	10

Surrogate	LB LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		10/24/16 21:28	10
4-Bromofluorobenzene (Surr)	91		73 - 120		10/24/16 21:28	10
Dibromofluoromethane (Surr)	111		75 - 123		10/24/16 21:28	10
Toluene-d8 (Surr)	100		80 - 120		10/24/16 21:28	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-326752/1-A

Matrix: Solid

Analysis Batch: 326902

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 326752

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dichlorobenzene	ND		0.0025	0.00012	mg/L		10/20/16 13:24	10/21/16 09:35	1
2,4,5-Trichlorophenol	ND		0.0013	0.00012	mg/L		10/20/16 13:24	10/21/16 09:35	1
2,4,6-Trichlorophenol	ND		0.0013	0.00015	mg/L		10/20/16 13:24	10/21/16 09:35	1
2,4-Dinitrotoluene	ND		0.0013	0.00011	mg/L		10/20/16 13:24	10/21/16 09:35	1
2-Methylphenol	ND		0.0013	0.00010	mg/L		10/20/16 13:24	10/21/16 09:35	1
3-Methylphenol	ND		0.0025	0.00010	mg/L		10/20/16 13:24	10/21/16 09:35	1
4-Methylphenol	ND		0.0025	0.000090	mg/L		10/20/16 13:24	10/21/16 09:35	1
Hexachlorobenzene	ND		0.0013	0.00013	mg/L		10/20/16 13:24	10/21/16 09:35	1
Hexachlorobutadiene	ND		0.0013	0.00017	mg/L		10/20/16 13:24	10/21/16 09:35	1
Hexachloroethane	ND		0.0013	0.00015	mg/L		10/20/16 13:24	10/21/16 09:35	1
Nitrobenzene	ND		0.0013	0.000073	mg/L		10/20/16 13:24	10/21/16 09:35	1
Pentachlorophenol	ND		0.0025	0.00055	mg/L		10/20/16 13:24	10/21/16 09:35	1
Pyridine	ND		0.0063	0.00010	mg/L		10/20/16 13:24	10/21/16 09:35	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	79		52 - 132	10/20/16 13:24	10/21/16 09:35	1
2-Fluorobiphenyl	92		48 - 120	10/20/16 13:24	10/21/16 09:35	1
2-Fluorophenol (Surr)	48		20 - 120	10/20/16 13:24	10/21/16 09:35	1
Nitrobenzene-d5 (Surr)	87		46 - 120	10/20/16 13:24	10/21/16 09:35	1
Phenol-d5 (Surr)	35		16 - 120	10/20/16 13:24	10/21/16 09:35	1
p-Terphenyl-d14 (Surr)	93		67 - 150	10/20/16 13:24	10/21/16 09:35	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-326752/2-A

Matrix: Solid

Analysis Batch: 326902

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 326752

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.0500	0.0333		mg/L		67	32 - 120
2,4,5-Trichlorophenol	0.0500	0.0446		mg/L		89	65 - 126
2,4,6-Trichlorophenol	0.0500	0.0478		mg/L		96	64 - 120
2,4-Dinitrotoluene	0.0500	0.0484		mg/L		97	65 - 154
2-Methylphenol	0.0500	0.0350		mg/L		70	39 - 120
3-Methylphenol	0.0500	0.0330		mg/L		66	39 - 120
4-Methylphenol	0.0500	0.0330		mg/L		66	39 - 120
Hexachlorobenzene	0.0500	0.0523		mg/L		105	14 - 130
Hexachlorobutadiene	0.0500	0.0426		mg/L		85	14 - 130
Hexachloroethane	0.0500	0.0357		mg/L		71	14 - 130
Nitrobenzene	0.0500	0.0430		mg/L		86	45 - 123
Pentachlorophenol	0.100	0.0856		mg/L		86	39 - 136
Pyridine	0.0500	0.0157		mg/L		31	10 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	110		52 - 132
2-Fluorobiphenyl	88		48 - 120
2-Fluorophenol (Surr)	46		20 - 120
Nitrobenzene-d5 (Surr)	86		46 - 120
Phenol-d5 (Surr)	35		16 - 120
p-Terphenyl-d14 (Surr)	93		67 - 150

Lab Sample ID: LB 480-326401/1-D

Matrix: Solid

Analysis Batch: 326902

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 326752

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		10/20/16 13:24	10/21/16 13:24	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		10/20/16 13:24	10/21/16 13:24	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		10/20/16 13:24	10/21/16 13:24	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		10/20/16 13:24	10/21/16 13:24	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		10/20/16 13:24	10/21/16 13:24	1
3-Methylphenol	ND		0.010	0.00040	mg/L		10/20/16 13:24	10/21/16 13:24	1
4-Methylphenol	ND		0.010	0.00036	mg/L		10/20/16 13:24	10/21/16 13:24	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		10/20/16 13:24	10/21/16 13:24	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		10/20/16 13:24	10/21/16 13:24	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		10/20/16 13:24	10/21/16 13:24	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		10/20/16 13:24	10/21/16 13:24	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		10/20/16 13:24	10/21/16 13:24	1
Pyridine	ND		0.025	0.00041	mg/L		10/20/16 13:24	10/21/16 13:24	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	96		52 - 132	10/20/16 13:24	10/21/16 13:24	1
2-Fluorobiphenyl	95		48 - 120	10/20/16 13:24	10/21/16 13:24	1
2-Fluorophenol (Surr)	48		20 - 120	10/20/16 13:24	10/21/16 13:24	1
Nitrobenzene-d5 (Surr)	91		46 - 120	10/20/16 13:24	10/21/16 13:24	1
Phenol-d5 (Surr)	32		16 - 120	10/20/16 13:24	10/21/16 13:24	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB 480-326401/1-D
Matrix: Solid
Analysis Batch: 326902

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 326752

Surrogate	LB LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>p</i> -Terphenyl-d14 (Surr)	93		67 - 150	10/20/16 13:24	10/21/16 13:24	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-326472/1-A
Matrix: Solid
Analysis Batch: 326554

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 326472

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		0.17	0.033	mg/Kg		10/19/16 12:07	10/19/16 19:17	1
PCB-1221	ND		0.17	0.033	mg/Kg		10/19/16 12:07	10/19/16 19:17	1
PCB-1232	ND		0.17	0.033	mg/Kg		10/19/16 12:07	10/19/16 19:17	1
PCB-1242	ND		0.17	0.033	mg/Kg		10/19/16 12:07	10/19/16 19:17	1
PCB-1248	ND		0.17	0.033	mg/Kg		10/19/16 12:07	10/19/16 19:17	1
PCB-1254	ND		0.17	0.079	mg/Kg		10/19/16 12:07	10/19/16 19:17	1
PCB-1260	ND		0.17	0.079	mg/Kg		10/19/16 12:07	10/19/16 19:17	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>Tetrachloro-m-xylene</i>	121		60 - 154	10/19/16 12:07	10/19/16 19:17	1
<i>DCB Decachlorobiphenyl</i>	139		65 - 174	10/19/16 12:07	10/19/16 19:17	1

Lab Sample ID: LCS 480-326472/2-A
Matrix: Solid
Analysis Batch: 326554

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 326472

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1260	2.50	3.17		mg/Kg		127	61 - 184

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>Tetrachloro-m-xylene</i>	136		60 - 154
<i>DCB Decachlorobiphenyl</i>	157		65 - 174

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-326699/2-A
Matrix: Solid
Analysis Batch: 327091

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 326699

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.015	0.0056	mg/L		10/20/16 10:45	10/21/16 17:40	1
Barium	ND		1.0	0.10	mg/L		10/20/16 10:45	10/21/16 17:40	1
Cadmium	ND		0.0020	0.00050	mg/L		10/20/16 10:45	10/21/16 17:40	1
Chromium	ND		0.020	0.010	mg/L		10/20/16 10:45	10/21/16 17:40	1
Lead	ND		0.020	0.0030	mg/L		10/20/16 10:45	10/21/16 17:40	1
Selenium	ND		0.025	0.0087	mg/L		10/20/16 10:45	10/21/16 17:40	1
Silver	ND		0.0060	0.0017	mg/L		10/20/16 10:45	10/21/16 17:40	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Lab Sample ID: LCS 480-326699/3-A
Matrix: Solid
Analysis Batch: 327091

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 326699

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Arsenic	1.00	1.05		mg/L		105	80 - 120
Barium	1.00	0.983	J	mg/L		98	80 - 120
Cadmium	1.00	1.02		mg/L		102	80 - 120
Chromium	1.00	0.977		mg/L		98	80 - 120
Lead	1.00	1.05		mg/L		105	80 - 120
Selenium	1.00	1.04		mg/L		104	80 - 120
Silver	1.00	1.02		mg/L		102	80 - 120

Lab Sample ID: LB 480-326401/1-B
Matrix: Solid
Analysis Batch: 327091

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 326699

Analyte	LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.015	0.0056	mg/L		10/20/16 10:45	10/21/16 17:37	1
Barium	ND		1.0	0.10	mg/L		10/20/16 10:45	10/21/16 17:37	1
Cadmium	ND		0.0020	0.00050	mg/L		10/20/16 10:45	10/21/16 17:37	1
Chromium	ND		0.020	0.010	mg/L		10/20/16 10:45	10/21/16 17:37	1
Lead	ND		0.020	0.0030	mg/L		10/20/16 10:45	10/21/16 17:37	1
Selenium	ND		0.025	0.0087	mg/L		10/20/16 10:45	10/21/16 17:37	1
Silver	ND		0.0060	0.0017	mg/L		10/20/16 10:45	10/21/16 17:37	1

Lab Sample ID: 480-107887-3 MS
Matrix: Solid
Analysis Batch: 327091

Client Sample ID: WC-3
Prep Type: TCLP
Prep Batch: 326699

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Arsenic	ND		1.00	1.06		mg/L		106	75 - 125
Barium	0.41	J	1.00	1.36		mg/L		95	75 - 125
Cadmium	0.0021		1.00	1.05		mg/L		104	75 - 125
Chromium	ND		1.00	0.952		mg/L		95	75 - 125
Lead	0.0062	J	1.00	1.05		mg/L		104	75 - 125
Selenium	ND		1.00	1.05		mg/L		105	75 - 125
Silver	ND		1.00	1.04		mg/L		104	75 - 125

Lab Sample ID: 480-107887-3 MSD
Matrix: Solid
Analysis Batch: 327091

Client Sample ID: WC-3
Prep Type: TCLP
Prep Batch: 326699

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec. Limits	RPD	
				Result	Qualifier					RPD	Limit
Arsenic	ND		1.00	1.06		mg/L		106	75 - 125	1	20
Barium	0.41	J	1.00	1.36		mg/L		95	75 - 125	0	20
Cadmium	0.0021		1.00	1.04		mg/L		104	75 - 125	1	20
Chromium	ND		1.00	0.948		mg/L		95	75 - 125	0	20
Lead	0.0062	J	1.00	1.03		mg/L		103	75 - 125	1	20
Selenium	ND		1.00	1.04		mg/L		104	75 - 125	0	20
Silver	ND		1.00	1.04		mg/L		104	75 - 125	0	20

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-326706/2-A
Matrix: Solid
Analysis Batch: 326882

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 326706

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		10/20/16 11:20	10/20/16 17:10	1

Lab Sample ID: LCS 480-326706/3-A
Matrix: Solid
Analysis Batch: 326882

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 326706

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00668	0.00608		mg/L		91	80 - 120

Lab Sample ID: LB 480-326401/1-C
Matrix: Solid
Analysis Batch: 326882

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 326706

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		10/20/16 11:20	10/20/16 17:04	1

Lab Sample ID: 480-107887-3 MS
Matrix: Solid
Analysis Batch: 326882

Client Sample ID: WC-3
Prep Type: TCLP
Prep Batch: 326706

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00668	0.00560		mg/L		84	80 - 120

Lab Sample ID: 480-107887-3 MSD
Matrix: Solid
Analysis Batch: 326882

Client Sample ID: WC-3
Prep Type: TCLP
Prep Batch: 326706

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00668	0.00582		mg/L		87	80 - 120	4	20

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-327349/1
Matrix: Solid
Analysis Batch: 327349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	82.00		Degrees F		101	97.5 - 102.5

Lab Sample ID: 480-107887-2 DU
Matrix: Solid
Analysis Batch: 327349

Client Sample ID: WC-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Flashpoint	>176		>176		Degrees F		NC	10

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method (Continued)

Lab Sample ID: LCS 480-327906/1
Matrix: Solid
Analysis Batch: 327906

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	81.00		Degrees F		100	97.5 - 102.5

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-326800/1-A
Matrix: Solid
Analysis Batch: 326834

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 326800

Analyte	MB Result	MB Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10.0	10.0 mg/Kg		10/20/16 09:00	10/20/16 17:10	1

Lab Sample ID: LCS 480-326800/2-A ^25
Matrix: Solid
Analysis Batch: 326834

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 326800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Reactive	1000	326.3		mg/Kg		33	10 - 100

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-326831/1-A
Matrix: Solid
Analysis Batch: 326833

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 326831

Analyte	MB Result	MB Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		10.0	10.0 mg/Kg		10/20/16 09:00	10/20/16 14:30	1

Lab Sample ID: LCS 480-326831/2-A
Matrix: Solid
Analysis Batch: 326833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 326831

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide, Reactive	860	721.4		mg/Kg		84	10 - 100

Method: 9045D - pH

Lab Sample ID: LCS 480-326611/1
Matrix: Solid
Analysis Batch: 326611

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Method: 9095B - Paint Filter

Lab Sample ID: 480-107887-2 DU
Matrix: Solid
Analysis Batch: 327064

Client Sample ID: WC-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Free Liquid	Passed		Passed		mL/100g		NC	

Lab Sample ID: 480-107887-9 DU
Matrix: Solid
Analysis Batch: 327064

Client Sample ID: WC-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Free Liquid	Passed		Passed		mL/100g		NC	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

QC Association Summary

Client: ARCADIS U.S. Inc
 Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

GC/MS VOA

Leach Batch: 326404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107887-1	WC-1	TCLP	Solid	1311	
480-107887-2	WC-2	TCLP	Solid	1311	
480-107887-3	WC-3	TCLP	Solid	1311	
480-107887-4	WC-4	TCLP	Solid	1311	
480-107887-5	WC-5	TCLP	Solid	1311	
480-107887-6	WC-6	TCLP	Solid	1311	
480-107887-7	WC-7	TCLP	Solid	1311	
480-107887-8	WC-8	TCLP	Solid	1311	
480-107887-9	WC-9	TCLP	Solid	1311	
480-107887-10	WC-10	TCLP	Solid	1311	
LB 480-326404/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 327379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107887-1	WC-1	TCLP	Solid	8260C	326404
480-107887-2	WC-2	TCLP	Solid	8260C	326404
480-107887-3	WC-3	TCLP	Solid	8260C	326404
480-107887-4	WC-4	TCLP	Solid	8260C	326404
480-107887-5	WC-5	TCLP	Solid	8260C	326404
480-107887-6	WC-6	TCLP	Solid	8260C	326404
480-107887-7	WC-7	TCLP	Solid	8260C	326404
480-107887-8	WC-8	TCLP	Solid	8260C	326404
480-107887-9	WC-9	TCLP	Solid	8260C	326404
480-107887-10	WC-10	TCLP	Solid	8260C	326404
LB 480-326404/1-A	Method Blank	TCLP	Solid	8260C	326404
MB 480-327379/6	Method Blank	Total/NA	Solid	8260C	
LCS 480-327379/4	Lab Control Sample	Total/NA	Solid	8260C	

GC/MS Semi VOA

Leach Batch: 326401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107887-1	WC-1	TCLP	Solid	1311	
480-107887-2	WC-2	TCLP	Solid	1311	
480-107887-3	WC-3	TCLP	Solid	1311	
480-107887-4	WC-4	TCLP	Solid	1311	
480-107887-5	WC-5	TCLP	Solid	1311	
480-107887-6	WC-6	TCLP	Solid	1311	
480-107887-7	WC-7	TCLP	Solid	1311	
480-107887-8	WC-8	TCLP	Solid	1311	
480-107887-9	WC-9	TCLP	Solid	1311	
480-107887-10	WC-10	TCLP	Solid	1311	
LB 480-326401/1-D	Method Blank	TCLP	Solid	1311	

Prep Batch: 326752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107887-1	WC-1	TCLP	Solid	3510C	326401
480-107887-2	WC-2	TCLP	Solid	3510C	326401
480-107887-3	WC-3	TCLP	Solid	3510C	326401
480-107887-4	WC-4	TCLP	Solid	3510C	326401

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

GC/MS Semi VOA (Continued)

Prep Batch: 326752 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107887-5	WC-5	TCLP	Solid	3510C	326401
480-107887-6	WC-6	TCLP	Solid	3510C	326401
480-107887-7	WC-7	TCLP	Solid	3510C	326401
480-107887-8	WC-8	TCLP	Solid	3510C	326401
480-107887-9	WC-9	TCLP	Solid	3510C	326401
480-107887-10	WC-10	TCLP	Solid	3510C	326401
LB 480-326401/1-D	Method Blank	TCLP	Solid	3510C	326401
MB 480-326752/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-326752/2-A	Lab Control Sample	Total/NA	Solid	3510C	

Analysis Batch: 326902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107887-1	WC-1	TCLP	Solid	8270D	326752
480-107887-2	WC-2	TCLP	Solid	8270D	326752
480-107887-3	WC-3	TCLP	Solid	8270D	326752
480-107887-4	WC-4	TCLP	Solid	8270D	326752
480-107887-5	WC-5	TCLP	Solid	8270D	326752
480-107887-6	WC-6	TCLP	Solid	8270D	326752
480-107887-7	WC-7	TCLP	Solid	8270D	326752
480-107887-8	WC-8	TCLP	Solid	8270D	326752
480-107887-9	WC-9	TCLP	Solid	8270D	326752
480-107887-10	WC-10	TCLP	Solid	8270D	326752
LB 480-326401/1-D	Method Blank	TCLP	Solid	8270D	326752
MB 480-326752/1-A	Method Blank	Total/NA	Solid	8270D	326752
LCS 480-326752/2-A	Lab Control Sample	Total/NA	Solid	8270D	326752

GC Semi VOA

Prep Batch: 326472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107887-1	WC-1	Total/NA	Solid	3550C	
480-107887-2	WC-2	Total/NA	Solid	3550C	
480-107887-3	WC-3	Total/NA	Solid	3550C	
480-107887-4	WC-4	Total/NA	Solid	3550C	
480-107887-5	WC-5	Total/NA	Solid	3550C	
480-107887-6	WC-6	Total/NA	Solid	3550C	
480-107887-7	WC-7	Total/NA	Solid	3550C	
480-107887-8	WC-8	Total/NA	Solid	3550C	
480-107887-9	WC-9	Total/NA	Solid	3550C	
480-107887-10	WC-10	Total/NA	Solid	3550C	
MB 480-326472/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-326472/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 326554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107887-1	WC-1	Total/NA	Solid	8082A	326472
480-107887-2	WC-2	Total/NA	Solid	8082A	326472
480-107887-3	WC-3	Total/NA	Solid	8082A	326472
480-107887-4	WC-4	Total/NA	Solid	8082A	326472
480-107887-5	WC-5	Total/NA	Solid	8082A	326472

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
 Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

GC Semi VOA (Continued)

Analysis Batch: 326554 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107887-6	WC-6	Total/NA	Solid	8082A	326472
480-107887-7	WC-7	Total/NA	Solid	8082A	326472
480-107887-8	WC-8	Total/NA	Solid	8082A	326472
480-107887-9	WC-9	Total/NA	Solid	8082A	326472
480-107887-10	WC-10	Total/NA	Solid	8082A	326472
MB 480-326472/1-A	Method Blank	Total/NA	Solid	8082A	326472
LCS 480-326472/2-A	Lab Control Sample	Total/NA	Solid	8082A	326472

Metals

Leach Batch: 326401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107887-1	WC-1	TCLP	Solid	1311	
480-107887-2	WC-2	TCLP	Solid	1311	
480-107887-3	WC-3	TCLP	Solid	1311	
480-107887-4	WC-4	TCLP	Solid	1311	
480-107887-5	WC-5	TCLP	Solid	1311	
480-107887-6	WC-6	TCLP	Solid	1311	
480-107887-7	WC-7	TCLP	Solid	1311	
480-107887-8	WC-8	TCLP	Solid	1311	
480-107887-9	WC-9	TCLP	Solid	1311	
480-107887-10	WC-10	TCLP	Solid	1311	
LB 480-326401/1-B	Method Blank	TCLP	Solid	1311	
LB 480-326401/1-C	Method Blank	TCLP	Solid	1311	
480-107887-3 MS	WC-3	TCLP	Solid	1311	
480-107887-3 MSD	WC-3	TCLP	Solid	1311	

Prep Batch: 326699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107887-1	WC-1	TCLP	Solid	3010A	326401
480-107887-2	WC-2	TCLP	Solid	3010A	326401
480-107887-3	WC-3	TCLP	Solid	3010A	326401
480-107887-4	WC-4	TCLP	Solid	3010A	326401
480-107887-5	WC-5	TCLP	Solid	3010A	326401
480-107887-6	WC-6	TCLP	Solid	3010A	326401
480-107887-7	WC-7	TCLP	Solid	3010A	326401
480-107887-8	WC-8	TCLP	Solid	3010A	326401
480-107887-9	WC-9	TCLP	Solid	3010A	326401
480-107887-10	WC-10	TCLP	Solid	3010A	326401
LB 480-326401/1-B	Method Blank	TCLP	Solid	3010A	326401
MB 480-326699/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 480-326699/3-A	Lab Control Sample	Total/NA	Solid	3010A	
480-107887-3 MS	WC-3	TCLP	Solid	3010A	326401
480-107887-3 MSD	WC-3	TCLP	Solid	3010A	326401

Prep Batch: 326706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107887-1	WC-1	TCLP	Solid	7470A	326401
480-107887-2	WC-2	TCLP	Solid	7470A	326401
480-107887-3	WC-3	TCLP	Solid	7470A	326401

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
 Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Metals (Continued)

Prep Batch: 326706 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107887-4	WC-4	TCLP	Solid	7470A	326401
480-107887-5	WC-5	TCLP	Solid	7470A	326401
480-107887-6	WC-6	TCLP	Solid	7470A	326401
480-107887-7	WC-7	TCLP	Solid	7470A	326401
480-107887-8	WC-8	TCLP	Solid	7470A	326401
480-107887-9	WC-9	TCLP	Solid	7470A	326401
480-107887-10	WC-10	TCLP	Solid	7470A	326401
LB 480-326401/1-C	Method Blank	TCLP	Solid	7470A	326401
MB 480-326706/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 480-326706/3-A	Lab Control Sample	Total/NA	Solid	7470A	
480-107887-3 MS	WC-3	TCLP	Solid	7470A	326401
480-107887-3 MSD	WC-3	TCLP	Solid	7470A	326401

Analysis Batch: 326882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107887-1	WC-1	TCLP	Solid	7470A	326706
480-107887-2	WC-2	TCLP	Solid	7470A	326706
480-107887-3	WC-3	TCLP	Solid	7470A	326706
480-107887-4	WC-4	TCLP	Solid	7470A	326706
480-107887-5	WC-5	TCLP	Solid	7470A	326706
480-107887-6	WC-6	TCLP	Solid	7470A	326706
480-107887-7	WC-7	TCLP	Solid	7470A	326706
480-107887-8	WC-8	TCLP	Solid	7470A	326706
480-107887-9	WC-9	TCLP	Solid	7470A	326706
480-107887-10	WC-10	TCLP	Solid	7470A	326706
LB 480-326401/1-C	Method Blank	TCLP	Solid	7470A	326706
MB 480-326706/2-A	Method Blank	Total/NA	Solid	7470A	326706
LCS 480-326706/3-A	Lab Control Sample	Total/NA	Solid	7470A	326706
480-107887-3 MS	WC-3	TCLP	Solid	7470A	326706
480-107887-3 MSD	WC-3	TCLP	Solid	7470A	326706

Analysis Batch: 327091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107887-1	WC-1	TCLP	Solid	6010C	326699
480-107887-2	WC-2	TCLP	Solid	6010C	326699
480-107887-3	WC-3	TCLP	Solid	6010C	326699
480-107887-4	WC-4	TCLP	Solid	6010C	326699
480-107887-5	WC-5	TCLP	Solid	6010C	326699
480-107887-6	WC-6	TCLP	Solid	6010C	326699
480-107887-7	WC-7	TCLP	Solid	6010C	326699
480-107887-8	WC-8	TCLP	Solid	6010C	326699
480-107887-9	WC-9	TCLP	Solid	6010C	326699
480-107887-10	WC-10	TCLP	Solid	6010C	326699
LB 480-326401/1-B	Method Blank	TCLP	Solid	6010C	326699
MB 480-326699/2-A	Method Blank	Total/NA	Solid	6010C	326699
LCS 480-326699/3-A	Lab Control Sample	Total/NA	Solid	6010C	326699
480-107887-3 MS	WC-3	TCLP	Solid	6010C	326699
480-107887-3 MSD	WC-3	TCLP	Solid	6010C	326699

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

General Chemistry

Analysis Batch: 326358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107887-1	WC-1	Total/NA	Solid	Moisture	
480-107887-2	WC-2	Total/NA	Solid	Moisture	
480-107887-3	WC-3	Total/NA	Solid	Moisture	
480-107887-4	WC-4	Total/NA	Solid	Moisture	
480-107887-5	WC-5	Total/NA	Solid	Moisture	
480-107887-6	WC-6	Total/NA	Solid	Moisture	
480-107887-7	WC-7	Total/NA	Solid	Moisture	
480-107887-8	WC-8	Total/NA	Solid	Moisture	
480-107887-9	WC-9	Total/NA	Solid	Moisture	
480-107887-10	WC-10	Total/NA	Solid	Moisture	

Analysis Batch: 326611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107887-1	WC-1	Total/NA	Solid	9045D	
480-107887-2	WC-2	Total/NA	Solid	9045D	
480-107887-3	WC-3	Total/NA	Solid	9045D	
480-107887-4	WC-4	Total/NA	Solid	9045D	
480-107887-5	WC-5	Total/NA	Solid	9045D	
480-107887-6	WC-6	Total/NA	Solid	9045D	
480-107887-7	WC-7	Total/NA	Solid	9045D	
480-107887-8	WC-8	Total/NA	Solid	9045D	
480-107887-9	WC-9	Total/NA	Solid	9045D	
480-107887-10	WC-10	Total/NA	Solid	9045D	
LCS 480-326611/1	Lab Control Sample	Total/NA	Solid	9045D	

Prep Batch: 326800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107887-1	WC-1	Total/NA	Solid	7.3.3	
480-107887-2	WC-2	Total/NA	Solid	7.3.3	
480-107887-3	WC-3	Total/NA	Solid	7.3.3	
480-107887-4	WC-4	Total/NA	Solid	7.3.3	
480-107887-5	WC-5	Total/NA	Solid	7.3.3	
480-107887-6	WC-6	Total/NA	Solid	7.3.3	
480-107887-7	WC-7	Total/NA	Solid	7.3.3	
480-107887-8	WC-8	Total/NA	Solid	7.3.3	
480-107887-9	WC-9	Total/NA	Solid	7.3.3	
480-107887-10	WC-10	Total/NA	Solid	7.3.3	
MB 480-326800/1-A	Method Blank	Total/NA	Solid	7.3.3	
LCS 480-326800/2-A ^25	Lab Control Sample	Total/NA	Solid	7.3.3	

Prep Batch: 326831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107887-1	WC-1	Total/NA	Solid	7.3.4	
480-107887-2	WC-2	Total/NA	Solid	7.3.4	
480-107887-3	WC-3	Total/NA	Solid	7.3.4	
480-107887-4	WC-4	Total/NA	Solid	7.3.4	
480-107887-5	WC-5	Total/NA	Solid	7.3.4	
480-107887-6	WC-6	Total/NA	Solid	7.3.4	
480-107887-7	WC-7	Total/NA	Solid	7.3.4	
480-107887-8	WC-8	Total/NA	Solid	7.3.4	
480-107887-9	WC-9	Total/NA	Solid	7.3.4	

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

General Chemistry (Continued)

Prep Batch: 326831 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107887-10	WC-10	Total/NA	Solid	7.3.4	
MB 480-326831/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 480-326831/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	

Analysis Batch: 326833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107887-1	WC-1	Total/NA	Solid	9034	326831
480-107887-2	WC-2	Total/NA	Solid	9034	326831
480-107887-3	WC-3	Total/NA	Solid	9034	326831
480-107887-4	WC-4	Total/NA	Solid	9034	326831
480-107887-5	WC-5	Total/NA	Solid	9034	326831
480-107887-6	WC-6	Total/NA	Solid	9034	326831
480-107887-7	WC-7	Total/NA	Solid	9034	326831
480-107887-8	WC-8	Total/NA	Solid	9034	326831
480-107887-9	WC-9	Total/NA	Solid	9034	326831
480-107887-10	WC-10	Total/NA	Solid	9034	326831
MB 480-326831/1-A	Method Blank	Total/NA	Solid	9034	326831
LCS 480-326831/2-A	Lab Control Sample	Total/NA	Solid	9034	326831

Analysis Batch: 326834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107887-1	WC-1	Total/NA	Solid	9012	326800
480-107887-2	WC-2	Total/NA	Solid	9012	326800
480-107887-3	WC-3	Total/NA	Solid	9012	326800
480-107887-4	WC-4	Total/NA	Solid	9012	326800
480-107887-5	WC-5	Total/NA	Solid	9012	326800
480-107887-6	WC-6	Total/NA	Solid	9012	326800
480-107887-7	WC-7	Total/NA	Solid	9012	326800
480-107887-8	WC-8	Total/NA	Solid	9012	326800
480-107887-9	WC-9	Total/NA	Solid	9012	326800
480-107887-10	WC-10	Total/NA	Solid	9012	326800
MB 480-326800/1-A	Method Blank	Total/NA	Solid	9012	326800
LCS 480-326800/2-A ^25	Lab Control Sample	Total/NA	Solid	9012	326800

Analysis Batch: 327064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107887-1	WC-1	Total/NA	Solid	9095B	
480-107887-2	WC-2	Total/NA	Solid	9095B	
480-107887-3	WC-3	Total/NA	Solid	9095B	
480-107887-4	WC-4	Total/NA	Solid	9095B	
480-107887-5	WC-5	Total/NA	Solid	9095B	
480-107887-6	WC-6	Total/NA	Solid	9095B	
480-107887-7	WC-7	Total/NA	Solid	9095B	
480-107887-8	WC-8	Total/NA	Solid	9095B	
480-107887-9	WC-9	Total/NA	Solid	9095B	
480-107887-10	WC-10	Total/NA	Solid	9095B	
480-107887-2 DU	WC-2	Total/NA	Solid	9095B	
480-107887-9 DU	WC-9	Total/NA	Solid	9095B	

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

General Chemistry (Continued)

Analysis Batch: 327349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107887-1	WC-1	Total/NA	Solid	1010A	
480-107887-2	WC-2	Total/NA	Solid	1010A	
480-107887-3	WC-3	Total/NA	Solid	1010A	
LCS 480-327349/1	Lab Control Sample	Total/NA	Solid	1010A	
480-107887-2 DU	WC-2	Total/NA	Solid	1010A	

Analysis Batch: 327906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107887-4	WC-4	Total/NA	Solid	1010A	
480-107887-5	WC-5	Total/NA	Solid	1010A	
480-107887-6	WC-6	Total/NA	Solid	1010A	
480-107887-7	WC-7	Total/NA	Solid	1010A	
480-107887-8	WC-8	Total/NA	Solid	1010A	
480-107887-9	WC-9	Total/NA	Solid	1010A	
480-107887-10	WC-10	Total/NA	Solid	1010A	
LCS 480-327906/1	Lab Control Sample	Total/NA	Solid	1010A	
480-107887-4 MS	WC-4	Total/NA	Solid	1010A	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Client Sample ID: WC-1

Lab Sample ID: 480-107887-1

Date Collected: 10/18/16 08:30

Matrix: Solid

Date Received: 10/18/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			326404	10/19/16 08:46	MAS	TAL BUF
TCLP	Analysis	8260C		10	327379	10/24/16 21:51	NEA	TAL BUF
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	3510C			326752	10/20/16 13:24	CPH	TAL BUF
TCLP	Analysis	8270D		1	326902	10/21/16 13:50	PJQ	TAL BUF
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	3010A			326699	10/20/16 10:45	MVZ	TAL BUF
TCLP	Analysis	6010C		1	327091	10/21/16 17:47	AMH	TAL BUF
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	7470A			326706	10/20/16 11:20	RMZ	TAL BUF
TCLP	Analysis	7470A		1	326882	10/20/16 17:13	RMZ	TAL BUF
Total/NA	Analysis	1010A		1	327349	10/24/16 15:05	MDL	TAL BUF
Total/NA	Prep	7.3.3			326800	10/20/16 09:00	MDL	TAL BUF
Total/NA	Analysis	9012		1	326834	10/20/16 17:10	MDL	TAL BUF
Total/NA	Prep	7.3.4			326831	10/20/16 09:00	MDL	TAL BUF
Total/NA	Analysis	9034		1	326833	10/20/16 14:30	MDL	TAL BUF
Total/NA	Analysis	9045D		1	326611	10/19/16 22:29	DSC	TAL BUF
Total/NA	Analysis	9095B		1	327064	10/21/16 17:10	DSC	TAL BUF
Total/NA	Analysis	Moisture		1	326358	10/19/16 06:11	CSW	TAL BUF

Client Sample ID: WC-1

Lab Sample ID: 480-107887-1

Date Collected: 10/18/16 08:30

Matrix: Solid

Date Received: 10/18/16 13:30

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			326472	10/19/16 12:07	MAS	TAL BUF
Total/NA	Analysis	8082A		2	326554	10/19/16 20:37	KS	TAL BUF

Client Sample ID: WC-2

Lab Sample ID: 480-107887-2

Date Collected: 10/18/16 08:50

Matrix: Solid

Date Received: 10/18/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			326404	10/19/16 08:46	MAS	TAL BUF
TCLP	Analysis	8260C		10	327379	10/24/16 22:14	NEA	TAL BUF
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	3510C			326752	10/20/16 13:24	CPH	TAL BUF
TCLP	Analysis	8270D		1	326902	10/21/16 14:15	PJQ	TAL BUF
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	3010A			326699	10/20/16 10:45	MVZ	TAL BUF
TCLP	Analysis	6010C		1	327091	10/21/16 17:51	AMH	TAL BUF
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	7470A			326706	10/20/16 11:20	RMZ	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Client Sample ID: WC-2

Lab Sample ID: 480-107887-2

Date Collected: 10/18/16 08:50

Matrix: Solid

Date Received: 10/18/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	7470A		1	326882	10/20/16 17:15	RMZ	TAL BUF
Total/NA	Analysis	1010A		1	327349	10/24/16 15:05	MDL	TAL BUF
Total/NA	Prep	7.3.3			326800	10/20/16 09:00	MDL	TAL BUF
Total/NA	Analysis	9012		1	326834	10/20/16 17:10	MDL	TAL BUF
Total/NA	Prep	7.3.4			326831	10/20/16 09:00	MDL	TAL BUF
Total/NA	Analysis	9034		1	326833	10/20/16 14:30	MDL	TAL BUF
Total/NA	Analysis	9045D		1	326611	10/19/16 22:29	DSC	TAL BUF
Total/NA	Analysis	9095B		1	327064	10/21/16 17:10	DSC	TAL BUF
Total/NA	Analysis	Moisture		1	326358	10/19/16 06:11	CSW	TAL BUF

Client Sample ID: WC-2

Lab Sample ID: 480-107887-2

Date Collected: 10/18/16 08:50

Matrix: Solid

Date Received: 10/18/16 13:30

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			326472	10/19/16 12:07	MAS	TAL BUF
Total/NA	Analysis	8082A		1	326554	10/19/16 20:52	KS	TAL BUF

Client Sample ID: WC-3

Lab Sample ID: 480-107887-3

Date Collected: 10/18/16 09:10

Matrix: Solid

Date Received: 10/18/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			326404	10/19/16 08:46	MAS	TAL BUF
TCLP	Analysis	8260C		10	327379	10/24/16 22:37	NEA	TAL BUF
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	3510C			326752	10/20/16 13:24	CPH	TAL BUF
TCLP	Analysis	8270D		1	326902	10/21/16 14:40	PJQ	TAL BUF
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	3010A			326699	10/20/16 10:45	MVZ	TAL BUF
TCLP	Analysis	6010C		1	327091	10/21/16 17:54	AMH	TAL BUF
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	7470A			326706	10/20/16 11:20	RMZ	TAL BUF
TCLP	Analysis	7470A		1	326882	10/20/16 17:17	RMZ	TAL BUF
Total/NA	Analysis	1010A		1	327349	10/24/16 15:05	MDL	TAL BUF
Total/NA	Prep	7.3.3			326800	10/20/16 09:00	MDL	TAL BUF
Total/NA	Analysis	9012		1	326834	10/20/16 17:10	MDL	TAL BUF
Total/NA	Prep	7.3.4			326831	10/20/16 09:00	MDL	TAL BUF
Total/NA	Analysis	9034		1	326833	10/20/16 14:30	MDL	TAL BUF
Total/NA	Analysis	9045D		1	326611	10/19/16 22:29	DSC	TAL BUF
Total/NA	Analysis	9095B		1	327064	10/21/16 17:10	DSC	TAL BUF
Total/NA	Analysis	Moisture		1	326358	10/19/16 06:11	CSW	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Client Sample ID: WC-3

Lab Sample ID: 480-107887-3

Date Collected: 10/18/16 09:10

Matrix: Solid

Date Received: 10/18/16 13:30

Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			326472	10/19/16 12:07	MAS	TAL BUF
Total/NA	Analysis	8082A		5	326554	10/19/16 21:08	KS	TAL BUF

Client Sample ID: WC-4

Lab Sample ID: 480-107887-4

Date Collected: 10/18/16 09:25

Matrix: Solid

Date Received: 10/18/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			326404	10/19/16 08:46	MAS	TAL BUF
TCLP	Analysis	8260C		10	327379	10/24/16 23:00	NEA	TAL BUF
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	3510C			326752	10/20/16 13:24	CPH	TAL BUF
TCLP	Analysis	8270D		1	326902	10/21/16 15:06	PJQ	TAL BUF
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	3010A			326699	10/20/16 10:45	MVZ	TAL BUF
TCLP	Analysis	6010C		1	327091	10/21/16 18:22	AMH	TAL BUF
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	7470A			326706	10/20/16 11:20	RMZ	TAL BUF
TCLP	Analysis	7470A		1	326882	10/20/16 17:24	RMZ	TAL BUF
Total/NA	Analysis	1010A		1	327906	10/26/16 17:05	JCL	TAL BUF
Total/NA	Prep	7.3.3			326800	10/20/16 09:00	MDL	TAL BUF
Total/NA	Analysis	9012		1	326834	10/20/16 17:10	MDL	TAL BUF
Total/NA	Prep	7.3.4			326831	10/20/16 09:00	MDL	TAL BUF
Total/NA	Analysis	9034		1	326833	10/20/16 14:30	MDL	TAL BUF
Total/NA	Analysis	9045D		1	326611	10/19/16 22:29	DSC	TAL BUF
Total/NA	Analysis	9095B		1	327064	10/21/16 17:10	DSC	TAL BUF
Total/NA	Analysis	Moisture		1	326358	10/19/16 06:11	CSW	TAL BUF

Client Sample ID: WC-4

Lab Sample ID: 480-107887-4

Date Collected: 10/18/16 09:25

Matrix: Solid

Date Received: 10/18/16 13:30

Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			326472	10/19/16 12:07	MAS	TAL BUF
Total/NA	Analysis	8082A		1	326554	10/19/16 21:24	KS	TAL BUF

Client Sample ID: WC-5

Lab Sample ID: 480-107887-5

Date Collected: 10/18/16 09:45

Matrix: Solid

Date Received: 10/18/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			326404	10/19/16 08:46	MAS	TAL BUF
TCLP	Analysis	8260C		10	327379	10/24/16 23:22	NEA	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Client Sample ID: WC-5

Lab Sample ID: 480-107887-5

Date Collected: 10/18/16 09:45

Matrix: Solid

Date Received: 10/18/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	3510C			326752	10/20/16 13:24	CPH	TAL BUF
TCLP	Analysis	8270D		1	326902	10/21/16 15:31	PJQ	TAL BUF
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	3010A			326699	10/20/16 10:45	MVZ	TAL BUF
TCLP	Analysis	6010C		1	327091	10/21/16 18:26	AMH	TAL BUF
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	7470A			326706	10/20/16 11:20	RMZ	TAL BUF
TCLP	Analysis	7470A		1	326882	10/20/16 17:26	RMZ	TAL BUF
Total/NA	Analysis	1010A		1	327906	10/26/16 17:05	JCL	TAL BUF
Total/NA	Prep	7.3.3			326800	10/20/16 09:00	MDL	TAL BUF
Total/NA	Analysis	9012		1	326834	10/20/16 17:10	MDL	TAL BUF
Total/NA	Prep	7.3.4			326831	10/20/16 09:00	MDL	TAL BUF
Total/NA	Analysis	9034		1	326833	10/20/16 14:30	MDL	TAL BUF
Total/NA	Analysis	9045D		1	326611	10/19/16 22:29	DSC	TAL BUF
Total/NA	Analysis	9095B		1	327064	10/21/16 17:10	DSC	TAL BUF
Total/NA	Analysis	Moisture		1	326358	10/19/16 06:11	CSW	TAL BUF

Client Sample ID: WC-5

Lab Sample ID: 480-107887-5

Date Collected: 10/18/16 09:45

Matrix: Solid

Date Received: 10/18/16 13:30

Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			326472	10/19/16 12:07	MAS	TAL BUF
Total/NA	Analysis	8082A		1	326554	10/19/16 21:39	KS	TAL BUF

Client Sample ID: WC-6

Lab Sample ID: 480-107887-6

Date Collected: 10/18/16 10:10

Matrix: Solid

Date Received: 10/18/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			326404	10/19/16 08:46	MAS	TAL BUF
TCLP	Analysis	8260C		10	327379	10/24/16 23:46	NEA	TAL BUF
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	3510C			326752	10/20/16 13:24	CPH	TAL BUF
TCLP	Analysis	8270D		1	326902	10/21/16 15:56	PJQ	TAL BUF
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	3010A			326699	10/20/16 10:45	MVZ	TAL BUF
TCLP	Analysis	6010C		1	327091	10/21/16 18:29	AMH	TAL BUF
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	7470A			326706	10/20/16 11:20	RMZ	TAL BUF
TCLP	Analysis	7470A		1	326882	10/20/16 17:33	RMZ	TAL BUF
Total/NA	Analysis	1010A		1	327906	10/26/16 17:05	JCL	TAL BUF

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Client Sample ID: WC-6

Lab Sample ID: 480-107887-6

Date Collected: 10/18/16 10:10

Matrix: Solid

Date Received: 10/18/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7.3.3			326800	10/20/16 09:00	MDL	TAL BUF
Total/NA	Analysis	9012		1	326834	10/20/16 17:10	MDL	TAL BUF
Total/NA	Prep	7.3.4			326831	10/20/16 09:00	MDL	TAL BUF
Total/NA	Analysis	9034		1	326833	10/20/16 14:30	MDL	TAL BUF
Total/NA	Analysis	9045D		1	326611	10/19/16 22:29	DSC	TAL BUF
Total/NA	Analysis	9095B		1	327064	10/21/16 17:10	DSC	TAL BUF
Total/NA	Analysis	Moisture		1	326358	10/19/16 06:11	CSW	TAL BUF

Client Sample ID: WC-6

Lab Sample ID: 480-107887-6

Date Collected: 10/18/16 10:10

Matrix: Solid

Date Received: 10/18/16 13:30

Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			326472	10/19/16 12:07	MAS	TAL BUF
Total/NA	Analysis	8082A		5	326554	10/19/16 21:55	KS	TAL BUF

Client Sample ID: WC-7

Lab Sample ID: 480-107887-7

Date Collected: 10/18/16 10:25

Matrix: Solid

Date Received: 10/18/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			326404	10/19/16 08:46	MAS	TAL BUF
TCLP	Analysis	8260C		10	327379	10/25/16 00:09	NEA	TAL BUF
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	3510C			326752	10/20/16 13:24	CPH	TAL BUF
TCLP	Analysis	8270D		1	326902	10/21/16 16:21	PJQ	TAL BUF
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	3010A			326699	10/20/16 10:45	MVZ	TAL BUF
TCLP	Analysis	6010C		1	327091	10/21/16 18:33	AMH	TAL BUF
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	7470A			326706	10/20/16 11:20	RMZ	TAL BUF
TCLP	Analysis	7470A		1	326882	10/20/16 17:35	RMZ	TAL BUF
Total/NA	Analysis	1010A		1	327906	10/26/16 17:05	JCL	TAL BUF
Total/NA	Prep	7.3.3			326800	10/20/16 09:00	MDL	TAL BUF
Total/NA	Analysis	9012		1	326834	10/20/16 17:10	MDL	TAL BUF
Total/NA	Prep	7.3.4			326831	10/20/16 09:00	MDL	TAL BUF
Total/NA	Analysis	9034		1	326833	10/20/16 14:30	MDL	TAL BUF
Total/NA	Analysis	9045D		1	326611	10/19/16 22:29	DSC	TAL BUF
Total/NA	Analysis	9095B		1	327064	10/21/16 17:10	DSC	TAL BUF
Total/NA	Analysis	Moisture		1	326358	10/19/16 06:11	CSW	TAL BUF

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Client Sample ID: WC-7

Lab Sample ID: 480-107887-7

Date Collected: 10/18/16 10:25

Matrix: Solid

Date Received: 10/18/16 13:30

Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			326472	10/19/16 12:07	MAS	TAL BUF
Total/NA	Analysis	8082A		1	326554	10/19/16 22:11	KS	TAL BUF

Client Sample ID: WC-8

Lab Sample ID: 480-107887-8

Date Collected: 10/18/16 10:35

Matrix: Solid

Date Received: 10/18/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			326404	10/19/16 08:46	MAS	TAL BUF
TCLP	Analysis	8260C		10	327379	10/25/16 00:32	NEA	TAL BUF
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	3510C			326752	10/20/16 13:24	CPH	TAL BUF
TCLP	Analysis	8270D		1	326902	10/21/16 16:47	PJQ	TAL BUF
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	3010A			326699	10/20/16 10:45	MVZ	TAL BUF
TCLP	Analysis	6010C		1	327091	10/21/16 18:37	AMH	TAL BUF
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	7470A			326706	10/20/16 11:20	RMZ	TAL BUF
TCLP	Analysis	7470A		1	326882	10/20/16 17:36	RMZ	TAL BUF
Total/NA	Analysis	1010A		1	327906	10/26/16 17:05	JCL	TAL BUF
Total/NA	Prep	7.3.3			326800	10/20/16 09:00	MDL	TAL BUF
Total/NA	Analysis	9012		1	326834	10/20/16 17:10	MDL	TAL BUF
Total/NA	Prep	7.3.4			326831	10/20/16 09:00	MDL	TAL BUF
Total/NA	Analysis	9034		1	326833	10/20/16 14:30	MDL	TAL BUF
Total/NA	Analysis	9045D		1	326611	10/19/16 22:29	DSC	TAL BUF
Total/NA	Analysis	9095B		1	327064	10/21/16 17:10	DSC	TAL BUF
Total/NA	Analysis	Moisture		1	326358	10/19/16 06:11	CSW	TAL BUF

Client Sample ID: WC-8

Lab Sample ID: 480-107887-8

Date Collected: 10/18/16 10:35

Matrix: Solid

Date Received: 10/18/16 13:30

Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			326472	10/19/16 12:07	MAS	TAL BUF
Total/NA	Analysis	8082A		1	326554	10/19/16 22:27	KS	TAL BUF

Client Sample ID: WC-9

Lab Sample ID: 480-107887-9

Date Collected: 10/18/16 10:45

Matrix: Solid

Date Received: 10/18/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			326404	10/19/16 08:46	MAS	TAL BUF
TCLP	Analysis	8260C		10	327379	10/25/16 00:55	NEA	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Client Sample ID: WC-9

Lab Sample ID: 480-107887-9

Date Collected: 10/18/16 10:45

Matrix: Solid

Date Received: 10/18/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	3510C			326752	10/20/16 13:24	CPH	TAL BUF
TCLP	Analysis	8270D		1	326902	10/21/16 17:12	PJQ	TAL BUF
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	3010A			326699	10/20/16 10:45	MVZ	TAL BUF
TCLP	Analysis	6010C		1	327091	10/21/16 18:40	AMH	TAL BUF
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	7470A			326706	10/20/16 11:20	RMZ	TAL BUF
TCLP	Analysis	7470A		1	326882	10/20/16 17:38	RMZ	TAL BUF
Total/NA	Analysis	1010A		1	327906	10/26/16 17:05	JCL	TAL BUF
Total/NA	Prep	7.3.3			326800	10/20/16 09:00	MDL	TAL BUF
Total/NA	Analysis	9012		1	326834	10/20/16 17:10	MDL	TAL BUF
Total/NA	Prep	7.3.4			326831	10/20/16 09:00	MDL	TAL BUF
Total/NA	Analysis	9034		1	326833	10/20/16 14:30	MDL	TAL BUF
Total/NA	Analysis	9045D		1	326611	10/19/16 22:29	DSC	TAL BUF
Total/NA	Analysis	9095B		1	327064	10/21/16 17:10	DSC	TAL BUF
Total/NA	Analysis	Moisture		1	326358	10/19/16 06:11	CSW	TAL BUF

Client Sample ID: WC-9

Lab Sample ID: 480-107887-9

Date Collected: 10/18/16 10:45

Matrix: Solid

Date Received: 10/18/16 13:30

Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			326472	10/19/16 12:07	MAS	TAL BUF
Total/NA	Analysis	8082A		1	326554	10/19/16 22:43	KS	TAL BUF

Client Sample ID: WC-10

Lab Sample ID: 480-107887-10

Date Collected: 10/18/16 11:10

Matrix: Solid

Date Received: 10/18/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			326404	10/19/16 08:46	MAS	TAL BUF
TCLP	Analysis	8260C		10	327379	10/25/16 01:18	NEA	TAL BUF
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	3510C			326752	10/20/16 13:24	CPH	TAL BUF
TCLP	Analysis	8270D		1	326902	10/21/16 17:37	PJQ	TAL BUF
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	3010A			326699	10/20/16 10:45	MVZ	TAL BUF
TCLP	Analysis	6010C		1	327091	10/21/16 18:44	AMH	TAL BUF
TCLP	Leach	1311			326401	10/19/16 08:31	MAS	TAL BUF
TCLP	Prep	7470A			326706	10/20/16 11:20	RMZ	TAL BUF
TCLP	Analysis	7470A		1	326882	10/20/16 17:40	RMZ	TAL BUF
Total/NA	Analysis	1010A		1	327906	10/26/16 17:05	JCL	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
 Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Client Sample ID: WC-10

Lab Sample ID: 480-107887-10

Date Collected: 10/18/16 11:10

Matrix: Solid

Date Received: 10/18/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7.3.3			326800	10/20/16 09:00	MDL	TAL BUF
Total/NA	Analysis	9012		1	326834	10/20/16 17:10	MDL	TAL BUF
Total/NA	Prep	7.3.4			326831	10/20/16 09:00	MDL	TAL BUF
Total/NA	Analysis	9034		1	326833	10/20/16 14:30	MDL	TAL BUF
Total/NA	Analysis	9045D		1	326611	10/19/16 22:29	DSC	TAL BUF
Total/NA	Analysis	9095B		1	327064	10/21/16 17:10	DSC	TAL BUF
Total/NA	Analysis	Moisture		1	326358	10/19/16 06:11	CSW	TAL BUF

Client Sample ID: WC-10

Lab Sample ID: 480-107887-10

Date Collected: 10/18/16 11:10

Matrix: Solid

Date Received: 10/18/16 13:30

Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			326472	10/19/16 12:07	MAS	TAL BUF
Total/NA	Analysis	8082A		1	326554	10/19/16 22:59	KS	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
9012	7.3.3	Solid	Cyanide, Reactive
9034	7.3.4	Solid	Sulfide, Reactive
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
9045D	pH	SW846	TAL BUF
9095B	Paint Filter	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-107887-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-107887-1	WC-1	Solid	10/18/16 08:30	10/18/16 13:30
480-107887-2	WC-2	Solid	10/18/16 08:50	10/18/16 13:30
480-107887-3	WC-3	Solid	10/18/16 09:10	10/18/16 13:30
480-107887-4	WC-4	Solid	10/18/16 09:25	10/18/16 13:30
480-107887-5	WC-5	Solid	10/18/16 09:45	10/18/16 13:30
480-107887-6	WC-6	Solid	10/18/16 10:10	10/18/16 13:30
480-107887-7	WC-7	Solid	10/18/16 10:25	10/18/16 13:30
480-107887-8	WC-8	Solid	10/18/16 10:35	10/18/16 13:30
480-107887-9	WC-9	Solid	10/18/16 10:45	10/18/16 13:30
480-107887-10	WC-10	Solid	10/18/16 11:10	10/18/16 13:30



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____
 Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1007)

Client: **Flexo Transparent** Project Manager: **Ben Girard** Chain of Custody Number: **295224**
 Address: **28 Wasson** Telephone Number (Area Code)/Fax Number: **716-667-6637** Lab Number: **10-18-16** Page **1** of **1**
 City: **Buffalo** State: **NY** Zip Code: **14210** Site Contact: **Mike Clobine** Lab Contact: _____
 Project Name and Location (State): **Flexo Transparent - Buffalo, NY** Carrier/Maybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives				Analysis/Leach list if appropriate is needed													
			Air	Aqueous	Sed	Soil	Unpres	H2SO4	HNO3	HCl		HNO3	ZnAc/NaOH	ZnAc/NaOH										
WC-1	10-18-16	0830		X			X						995B-Flex liquid	9912-Reactive CN	9934-Reactive Slit	1010C-TLCP	7470A-TLCP	9230D-TLCP	8260C-TLCP	945D-PH	1010A-Flashed	8082A-PCBS		
WC-2		0850																						
WC-3		0910																						
WC-4		0925																						
WC-5		0945																						
WC-6		1010																						
WC-7		1025																						
WC-8		1035																						
WC-9		1045																						
WC-10		1110																						

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other Standard

1. Relinquished By: *[Signature]* Date: **10-18-16** Time: **1330**
 2. Relinquished By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____

QC Requirements (Specify): _____

1. Received By: *[Signature]* Date: **10/18/16** Time: **1330**
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: **20126 #1**



Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-107887-1

Login Number: 107887

List Number: 1

Creator: Kolb, Chris M

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
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 sample IDs on the containers 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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	False	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-114622-1

Client Project/Site: Flexo Transparent

For:

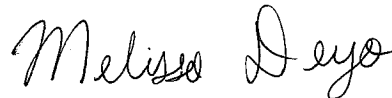
ARCADIS U.S. Inc

50 Fountain Plaza

Suite 600

Buffalo, New York 14202

Attn: Katherine Clubine



Authorized for release by:

3/21/2017 8:33:49 AM

Melissa Deyo, Project Manager I

(716)504-9874

melissa.deyo@testamericainc.com



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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114622-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114622-1

Job ID: 480-114622-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-114622-1

Receipt

The samples were received on 3/14/2017 6:12 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.8° C.

GC/MS VOA

Method(s) 8260C: The following samples were diluted due to the nature of the TCLP matrix: WC-11 20170314 (480-114622-1), WC-12 20170314 (480-114622-2) and (LB 480-347566/1-A). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA

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

GC Semi VOA

Method(s) 8082A: The following matrix spike and matrix spike duplicate (MS/MSD) parent sample has surrogate recoveries that are above acceptance limits: WC-11 20170314 (480-114622-1). The corresponding MS/MSD analyte recoveries, surrogate recoveries, and %RPD are within limits. Therefore, the data has been reported.

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

Metals

Method(s) 6010C: The following sample was diluted for TCLP Selenium due to the nature of the sample matrix: WC-11 20170314 (480-114622-1) and WC-12 20170314 (480-114622-2). Elevated reporting limits (RLs) are provided.

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

General Chemistry

Method(s) 9045C, 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: WC-11 20170314 (480-114622-1) and WC-12 20170314 (480-114622-2).

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

Organic Prep

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 480-347558 and 480-347695.

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

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114622-1

Client Sample ID: WC-11 20170314

Lab Sample ID: 480-114622-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	Passed				mL/100g	1		9095B	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.87		0.26	0.12	mg/Kg	1	*	8082A	Total/NA
PCB-1260	0.47		0.26	0.12	mg/Kg	1	*	8082A	Total/NA
Arsenic	0.0065	J	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	0.90	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0065		0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.048		0.020	0.0030	mg/L	1		6010C	TCLP
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>180		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	7.7	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	22.6	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: WC-12 20170314

Lab Sample ID: 480-114622-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	Passed				mL/100g	1		9095B	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	1.1		0.23	0.11	mg/Kg	1	*	8082A	Total/NA
PCB-1260	0.75		0.23	0.11	mg/Kg	1	*	8082A	Total/NA
Barium	0.78	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0022		0.0020	0.00050	mg/L	1		6010C	TCLP
Chromium	0.011	J	0.020	0.010	mg/L	1		6010C	TCLP
Lead	0.012	J	0.020	0.0030	mg/L	1		6010C	TCLP
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>180		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	7.8	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	23.3	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114622-1

Client Sample ID: WC-11 20170314

Lab Sample ID: 480-114622-1

Date Collected: 03/14/17 14:30

Matrix: Solid

Date Received: 03/14/17 18:12

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			03/16/17 15:34	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			03/16/17 15:34	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			03/16/17 15:34	10
Benzene	ND		0.010	0.0041	mg/L			03/16/17 15:34	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			03/16/17 15:34	10
Chlorobenzene	ND		0.010	0.0075	mg/L			03/16/17 15:34	10
Chloroform	ND		0.010	0.0034	mg/L			03/16/17 15:34	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			03/16/17 15:34	10
Trichloroethene	ND		0.010	0.0046	mg/L			03/16/17 15:34	10
Vinyl chloride	ND		0.010	0.0090	mg/L			03/16/17 15:34	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120					03/16/17 15:34	10
4-Bromofluorobenzene (Surr)	90		73 - 120					03/16/17 15:34	10
Dibromofluoromethane (Surr)	98		75 - 123					03/16/17 15:34	10
Toluene-d8 (Surr)	103		80 - 120					03/16/17 15:34	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		03/16/17 11:17	03/19/17 00:05	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		03/16/17 11:17	03/19/17 00:05	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		03/16/17 11:17	03/19/17 00:05	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		03/16/17 11:17	03/19/17 00:05	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		03/16/17 11:17	03/19/17 00:05	1
3-Methylphenol	ND		0.010	0.00040	mg/L		03/16/17 11:17	03/19/17 00:05	1
4-Methylphenol	ND		0.010	0.00036	mg/L		03/16/17 11:17	03/19/17 00:05	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		03/16/17 11:17	03/19/17 00:05	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		03/16/17 11:17	03/19/17 00:05	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		03/16/17 11:17	03/19/17 00:05	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		03/16/17 11:17	03/19/17 00:05	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		03/16/17 11:17	03/19/17 00:05	1
Pyridine	ND		0.025	0.00041	mg/L		03/16/17 11:17	03/19/17 00:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	80		41 - 120				03/16/17 11:17	03/19/17 00:05	1
2-Fluorobiphenyl	84		48 - 120				03/16/17 11:17	03/19/17 00:05	1
2-Fluorophenol (Surr)	51		35 - 120				03/16/17 11:17	03/19/17 00:05	1
Nitrobenzene-d5 (Surr)	86		46 - 120				03/16/17 11:17	03/19/17 00:05	1
Phenol-d5 (Surr)	36		22 - 120				03/16/17 11:17	03/19/17 00:05	1
p-Terphenyl-d14 (Surr)	95		59 - 136				03/16/17 11:17	03/19/17 00:05	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0065	J	0.015	0.0056	mg/L		03/16/17 10:36	03/17/17 14:04	1
Barium	0.90	J	1.0	0.10	mg/L		03/16/17 10:36	03/17/17 14:04	1
Cadmium	0.0065		0.0020	0.00050	mg/L		03/16/17 10:36	03/17/17 14:04	1
Chromium	ND		0.020	0.010	mg/L		03/16/17 10:36	03/17/17 14:04	1
Lead	0.048		0.020	0.0030	mg/L		03/16/17 10:36	03/17/17 14:04	1
Selenium	ND		0.050	0.017	mg/L		03/16/17 10:36	03/18/17 12:17	2
Silver	ND		0.0060	0.0017	mg/L		03/16/17 10:36	03/17/17 14:04	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114622-1

Client Sample ID: WC-11 20170314

Lab Sample ID: 480-114622-1

Date Collected: 03/14/17 14:30

Matrix: Solid

Date Received: 03/14/17 18:12

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/16/17 10:30	03/16/17 14:24	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	Passed				mL/100g			03/17/17 16:15	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>180		50.0	50.0	Degrees F			03/19/17 16:05	1
Cyanide, Reactive	ND		10	10	mg/Kg		03/16/17 03:10	03/16/17 16:09	1
Sulfide, Reactive	ND		10	10	mg/Kg		03/16/17 03:10	03/16/17 13:45	1
pH	7.7	HF	0.1	0.1	SU			03/17/17 17:11	1
Temperature	22.6	HF	0.001	0.001	Degrees C			03/17/17 17:11	1

Client Sample ID: WC-11 20170314

Lab Sample ID: 480-114622-1

Date Collected: 03/14/17 14:30

Matrix: Solid

Date Received: 03/14/17 18:12

Percent Solids: 81.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.051	mg/Kg	✱	03/15/17 11:13	03/15/17 19:23	1
PCB-1221	ND		0.26	0.051	mg/Kg	✱	03/15/17 11:13	03/15/17 19:23	1
PCB-1232	ND		0.26	0.051	mg/Kg	✱	03/15/17 11:13	03/15/17 19:23	1
PCB-1242	ND		0.26	0.051	mg/Kg	✱	03/15/17 11:13	03/15/17 19:23	1
PCB-1248	ND		0.26	0.051	mg/Kg	✱	03/15/17 11:13	03/15/17 19:23	1
PCB-1254	0.87		0.26	0.12	mg/Kg	✱	03/15/17 11:13	03/15/17 19:23	1
PCB-1260	0.47		0.26	0.12	mg/Kg	✱	03/15/17 11:13	03/15/17 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	162	X	60 - 154	03/15/17 11:13	03/15/17 19:23	1
DCB Decachlorobiphenyl	183	X	65 - 174	03/15/17 11:13	03/15/17 19:23	1

Client Sample ID: WC-12 20170314

Lab Sample ID: 480-114622-2

Date Collected: 03/14/17 15:30

Matrix: Solid

Date Received: 03/14/17 18:12

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			03/16/17 16:02	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			03/16/17 16:02	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			03/16/17 16:02	10
Benzene	ND		0.010	0.0041	mg/L			03/16/17 16:02	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			03/16/17 16:02	10
Chlorobenzene	ND		0.010	0.0075	mg/L			03/16/17 16:02	10
Chloroform	ND		0.010	0.0034	mg/L			03/16/17 16:02	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			03/16/17 16:02	10
Trichloroethene	ND		0.010	0.0046	mg/L			03/16/17 16:02	10
Vinyl chloride	ND		0.010	0.0090	mg/L			03/16/17 16:02	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		03/16/17 16:02	10
4-Bromofluorobenzene (Surr)	85		73 - 120		03/16/17 16:02	10

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114622-1

Client Sample ID: WC-12 20170314

Lab Sample ID: 480-114622-2

Date Collected: 03/14/17 15:30

Matrix: Solid

Date Received: 03/14/17 18:12

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		75 - 123		03/16/17 16:02	10
Toluene-d8 (Surr)	96		80 - 120		03/16/17 16:02	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		03/16/17 11:17	03/19/17 00:31	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		03/16/17 11:17	03/19/17 00:31	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		03/16/17 11:17	03/19/17 00:31	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		03/16/17 11:17	03/19/17 00:31	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		03/16/17 11:17	03/19/17 00:31	1
3-Methylphenol	ND		0.010	0.00040	mg/L		03/16/17 11:17	03/19/17 00:31	1
4-Methylphenol	ND		0.010	0.00036	mg/L		03/16/17 11:17	03/19/17 00:31	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		03/16/17 11:17	03/19/17 00:31	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		03/16/17 11:17	03/19/17 00:31	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		03/16/17 11:17	03/19/17 00:31	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		03/16/17 11:17	03/19/17 00:31	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		03/16/17 11:17	03/19/17 00:31	1
Pyridine	ND		0.025	0.00041	mg/L		03/16/17 11:17	03/19/17 00:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		41 - 120	03/16/17 11:17	03/19/17 00:31	1
2-Fluorobiphenyl	81		48 - 120	03/16/17 11:17	03/19/17 00:31	1
2-Fluorophenol (Surr)	50		35 - 120	03/16/17 11:17	03/19/17 00:31	1
Nitrobenzene-d5 (Surr)	82		46 - 120	03/16/17 11:17	03/19/17 00:31	1
Phenol-d5 (Surr)	35		22 - 120	03/16/17 11:17	03/19/17 00:31	1
p-Terphenyl-d14 (Surr)	94		59 - 136	03/16/17 11:17	03/19/17 00:31	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		03/16/17 10:36	03/17/17 14:08	1
Barium	0.78	J	1.0	0.10	mg/L		03/16/17 10:36	03/17/17 14:08	1
Cadmium	0.0022		0.0020	0.00050	mg/L		03/16/17 10:36	03/17/17 14:08	1
Chromium	0.011	J	0.020	0.010	mg/L		03/16/17 10:36	03/17/17 14:08	1
Lead	0.012	J	0.020	0.0030	mg/L		03/16/17 10:36	03/17/17 14:08	1
Selenium	ND		0.050	0.017	mg/L		03/16/17 10:36	03/18/17 12:21	2
Silver	ND		0.0060	0.0017	mg/L		03/16/17 10:36	03/17/17 14:08	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/16/17 10:30	03/16/17 14:30	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	Passed				mL/100g			03/17/17 16:15	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>180		50.0	50.0	Degrees F			03/19/17 16:05	1
Cyanide, Reactive	ND		10	10	mg/Kg		03/16/17 03:10	03/16/17 16:09	1
Sulfide, Reactive	ND		10	10	mg/Kg		03/16/17 03:10	03/16/17 13:45	1
pH	7.8	HF	0.1	0.1	SU			03/17/17 17:11	1
Temperature	23.3	HF	0.001	0.001	Degrees C			03/17/17 17:11	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114622-1

Client Sample ID: WC-12 20170314

Lab Sample ID: 480-114622-2

Date Collected: 03/14/17 15:30

Matrix: Solid

Date Received: 03/14/17 18:12

Percent Solids: 83.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.045	mg/Kg	☼	03/15/17 11:18	03/15/17 19:39	1
PCB-1221	ND		0.23	0.045	mg/Kg	☼	03/15/17 11:18	03/15/17 19:39	1
PCB-1232	ND		0.23	0.045	mg/Kg	☼	03/15/17 11:18	03/15/17 19:39	1
PCB-1242	ND		0.23	0.045	mg/Kg	☼	03/15/17 11:18	03/15/17 19:39	1
PCB-1248	ND		0.23	0.045	mg/Kg	☼	03/15/17 11:18	03/15/17 19:39	1
PCB-1254	1.1		0.23	0.11	mg/Kg	☼	03/15/17 11:18	03/15/17 19:39	1
PCB-1260	0.75		0.23	0.11	mg/Kg	☼	03/15/17 11:18	03/15/17 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	103		60 - 154	03/15/17 11:18	03/15/17 19:39	1
<i>DCB Decachlorobiphenyl</i>	118		65 - 174	03/15/17 11:18	03/15/17 19:39	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114622-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
LCS 480-347652/4	Lab Control Sample	106	87	99	101
MB 480-347652/6	Method Blank	106	88	102	99

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-114622-1	WC-11 20170314	109	90	98	103
480-114622-2	WC-12 20170314	107	85	97	96
LB 480-347566/1-A	Method Blank	111	86	105	100

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (41-120)	FBP (48-120)	2FP (35-120)	NBZ (46-120)	PHL (22-120)	TPH (59-136)
LCS 480-347695/2-A	Lab Control Sample	92	88	54	87	39	95
LCS 480-347695/3-A	Lab Control Sample Dup	92	80	48	83	35	90
MB 480-347695/1-A	Method Blank	73	87	56	92	38	97

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = p-Terphenyl-d14 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (41-120)	FBP (48-120)	2FP (35-120)	NBZ (46-120)	PHL (22-120)	TPH (59-136)
480-114622-1	WC-11 20170314	80	84	51	86	36	95

TestAmerica Buffalo

Surrogate Summary

Client: ARCADIS U.S. Inc
 Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114622-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (41-120)	FBP (48-120)	2FP (35-120)	NBZ (46-120)	PHL (22-120)	TPH (59-136)
480-114622-2	WC-12 20170314	79	81	50	82	35	94
LB 480-347558/1-D	Method Blank	82	83	49	87	34	94

Surrogate Legend

- TBP = 2,4,6-Tribromophenol (Surr)
- FBP = 2-Fluorobiphenyl
- 2FP = 2-Fluorophenol (Surr)
- NBZ = Nitrobenzene-d5 (Surr)
- PHL = Phenol-d5 (Surr)
- TPH = p-Terphenyl-d14 (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (60-154)	DCB1 (65-174)
480-114622-1	WC-11 20170314	162 X	183 X
480-114622-1 MS	WC-11 20170314	110	121
480-114622-1 MSD	WC-11 20170314	118	135
480-114622-2	WC-12 20170314	103	118
LCS 480-347541/2-A	Lab Control Sample	116	134
MB 480-347541/1-A	Method Blank	94	112

Surrogate Legend

- TCX = Tetrachloro-m-xylene
- DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114622-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-347652/6

Matrix: Solid

Analysis Batch: 347652

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			03/16/17 11:31	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			03/16/17 11:31	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			03/16/17 11:31	1
Benzene	ND		0.0010	0.00041	mg/L			03/16/17 11:31	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			03/16/17 11:31	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			03/16/17 11:31	1
Chloroform	ND		0.0010	0.00034	mg/L			03/16/17 11:31	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			03/16/17 11:31	1
Trichloroethene	ND		0.0010	0.00046	mg/L			03/16/17 11:31	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			03/16/17 11:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		03/16/17 11:31	1
4-Bromofluorobenzene (Surr)	88		73 - 120		03/16/17 11:31	1
Dibromofluoromethane (Surr)	102		75 - 123		03/16/17 11:31	1
Toluene-d8 (Surr)	99		80 - 120		03/16/17 11:31	1

Lab Sample ID: LCS 480-347652/4

Matrix: Solid

Analysis Batch: 347652

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0250	0.0236		mg/L		94	66 - 127
1,2-Dichloroethane	0.0250	0.0245		mg/L		98	75 - 120
2-Butanone (MEK)	0.125	0.101		mg/L		81	57 - 140
Benzene	0.0250	0.0233		mg/L		93	71 - 124
Carbon tetrachloride	0.0250	0.0234		mg/L		94	72 - 134
Chlorobenzene	0.0250	0.0241		mg/L		96	80 - 120
Chloroform	0.0250	0.0242		mg/L		97	73 - 127
Tetrachloroethene	0.0250	0.0212		mg/L		85	74 - 122
Trichloroethene	0.0250	0.0232		mg/L		93	74 - 123
Vinyl chloride	0.0250	0.0264		mg/L		106	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		77 - 120
4-Bromofluorobenzene (Surr)	87		73 - 120
Dibromofluoromethane (Surr)	99		75 - 123
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: LB 480-347566/1-A

Matrix: Solid

Analysis Batch: 347652

Client Sample ID: Method Blank

Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			03/16/17 12:24	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			03/16/17 12:24	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			03/16/17 12:24	10

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114622-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB 480-347566/1-A
Matrix: Solid
Analysis Batch: 347652

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.010	0.0041	mg/L			03/16/17 12:24	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			03/16/17 12:24	10
Chlorobenzene	ND		0.010	0.0075	mg/L			03/16/17 12:24	10
Chloroform	ND		0.010	0.0034	mg/L			03/16/17 12:24	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			03/16/17 12:24	10
Trichloroethene	ND		0.010	0.0046	mg/L			03/16/17 12:24	10
Vinyl chloride	ND		0.010	0.0090	mg/L			03/16/17 12:24	10

Surrogate	LB LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	111		77 - 120		03/16/17 12:24	10
4-Bromofluorobenzene (Surr)	86		73 - 120		03/16/17 12:24	10
Dibromofluoromethane (Surr)	105		75 - 123		03/16/17 12:24	10
Toluene-d8 (Surr)	100		80 - 120		03/16/17 12:24	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-347695/1-A
Matrix: Solid
Analysis Batch: 347965

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 347695

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dichlorobenzene	ND		0.0025	0.00012	mg/L		03/16/17 11:17	03/18/17 19:42	1
2,4,5-Trichlorophenol	ND		0.0013	0.00012	mg/L		03/16/17 11:17	03/18/17 19:42	1
2,4,6-Trichlorophenol	ND		0.0013	0.00015	mg/L		03/16/17 11:17	03/18/17 19:42	1
2,4-Dinitrotoluene	ND		0.0013	0.00011	mg/L		03/16/17 11:17	03/18/17 19:42	1
2-Methylphenol	ND		0.0013	0.00010	mg/L		03/16/17 11:17	03/18/17 19:42	1
3-Methylphenol	ND		0.0025	0.00010	mg/L		03/16/17 11:17	03/18/17 19:42	1
4-Methylphenol	ND		0.0025	0.000090	mg/L		03/16/17 11:17	03/18/17 19:42	1
Hexachlorobenzene	ND		0.0013	0.00013	mg/L		03/16/17 11:17	03/18/17 19:42	1
Hexachlorobutadiene	ND		0.0013	0.00017	mg/L		03/16/17 11:17	03/18/17 19:42	1
Hexachloroethane	ND		0.0013	0.00015	mg/L		03/16/17 11:17	03/18/17 19:42	1
Nitrobenzene	ND		0.0013	0.000073	mg/L		03/16/17 11:17	03/18/17 19:42	1
Pentachlorophenol	ND		0.0025	0.00055	mg/L		03/16/17 11:17	03/18/17 19:42	1
Pyridine	ND		0.0063	0.00010	mg/L		03/16/17 11:17	03/18/17 19:42	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	73		41 - 120	03/16/17 11:17	03/18/17 19:42	1
2-Fluorobiphenyl	87		48 - 120	03/16/17 11:17	03/18/17 19:42	1
2-Fluorophenol (Surr)	56		35 - 120	03/16/17 11:17	03/18/17 19:42	1
Nitrobenzene-d5 (Surr)	92		46 - 120	03/16/17 11:17	03/18/17 19:42	1
Phenol-d5 (Surr)	38		22 - 120	03/16/17 11:17	03/18/17 19:42	1
p-Terphenyl-d14 (Surr)	97		59 - 136	03/16/17 11:17	03/18/17 19:42	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114622-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-347695/2-A

Matrix: Solid

Analysis Batch: 347965

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 347695

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.0500	0.0289		mg/L		58	51 - 120
2,4,5-Trichlorophenol	0.0500	0.0484		mg/L		97	65 - 126
2,4,6-Trichlorophenol	0.0500	0.0482		mg/L		96	64 - 120
2,4-Dinitrotoluene	0.0500	0.0518		mg/L		104	69 - 120
2-Methylphenol	0.0500	0.0414		mg/L		83	39 - 120
3-Methylphenol	0.0500	0.0397		mg/L		79	39 - 120
4-Methylphenol	0.0500	0.0397		mg/L		79	29 - 131
Hexachlorobenzene	0.0500	0.0476		mg/L		95	61 - 120
Hexachlorobutadiene	0.0500	0.0279		mg/L		56	35 - 120
Hexachloroethane	0.0500	0.0260		mg/L		52	43 - 120
Nitrobenzene	0.0500	0.0451		mg/L		90	53 - 123
Pentachlorophenol	0.100	0.0938		mg/L		94	29 - 136
Pyridine	0.0500	0.0225		mg/L		45	10 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	92		41 - 120
2-Fluorobiphenyl	88		48 - 120
2-Fluorophenol (Surr)	54		35 - 120
Nitrobenzene-d5 (Surr)	87		46 - 120
Phenol-d5 (Surr)	39		22 - 120
p-Terphenyl-d14 (Surr)	95		59 - 136

Lab Sample ID: LCSD 480-347695/3-A

Matrix: Solid

Analysis Batch: 347965

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 347695

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.0500	0.0260		mg/L		52	51 - 120	10	36
2,4,5-Trichlorophenol	0.0500	0.0441		mg/L		88	65 - 126	9	18
2,4,6-Trichlorophenol	0.0500	0.0435		mg/L		87	64 - 120	10	19
2,4-Dinitrotoluene	0.0500	0.0478		mg/L		96	69 - 120	8	20
2-Methylphenol	0.0500	0.0370		mg/L		74	39 - 120	11	27
3-Methylphenol	0.0500	0.0356		mg/L		71	39 - 120	11	30
4-Methylphenol	0.0500	0.0356		mg/L		71	29 - 131	11	24
Hexachlorobenzene	0.0500	0.0462		mg/L		92	61 - 120	3	15
Hexachlorobutadiene	0.0500	0.0263		mg/L		53	35 - 120	6	44
Hexachloroethane	0.0500	0.0239		mg/L		48	43 - 120	8	46
Nitrobenzene	0.0500	0.0421		mg/L		84	53 - 123	7	24
Pentachlorophenol	0.100	0.0940		mg/L		94	29 - 136	0	37
Pyridine	0.0500	0.0219		mg/L		44	10 - 120	3	49

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	92		41 - 120
2-Fluorobiphenyl	80		48 - 120
2-Fluorophenol (Surr)	48		35 - 120
Nitrobenzene-d5 (Surr)	83		46 - 120
Phenol-d5 (Surr)	35		22 - 120

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114622-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-347695/3-A
Matrix: Solid
Analysis Batch: 347965

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 347695

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
<i>p</i> -Terphenyl-d14 (Surr)	90		59 - 136

Lab Sample ID: LB 480-347558/1-D
Matrix: Solid
Analysis Batch: 347965

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 347695

Analyte	LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		03/16/17 11:17	03/18/17 21:00	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		03/16/17 11:17	03/18/17 21:00	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		03/16/17 11:17	03/18/17 21:00	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		03/16/17 11:17	03/18/17 21:00	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		03/16/17 11:17	03/18/17 21:00	1
3-Methylphenol	ND		0.010	0.00040	mg/L		03/16/17 11:17	03/18/17 21:00	1
4-Methylphenol	ND		0.010	0.00036	mg/L		03/16/17 11:17	03/18/17 21:00	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		03/16/17 11:17	03/18/17 21:00	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		03/16/17 11:17	03/18/17 21:00	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		03/16/17 11:17	03/18/17 21:00	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		03/16/17 11:17	03/18/17 21:00	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		03/16/17 11:17	03/18/17 21:00	1
Pyridine	ND		0.025	0.00041	mg/L		03/16/17 11:17	03/18/17 21:00	1

Surrogate	LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>2,4,6</i> -Tribromophenol (Surr)	82		41 - 120	03/16/17 11:17	03/18/17 21:00	1
<i>2</i> -Fluorobiphenyl	83		48 - 120	03/16/17 11:17	03/18/17 21:00	1
<i>2</i> -Fluorophenol (Surr)	49		35 - 120	03/16/17 11:17	03/18/17 21:00	1
<i>Nitrobenzene-d5</i> (Surr)	87		46 - 120	03/16/17 11:17	03/18/17 21:00	1
<i>Phenol-d5</i> (Surr)	34		22 - 120	03/16/17 11:17	03/18/17 21:00	1
<i>p</i> -Terphenyl-d14 (Surr)	94		59 - 136	03/16/17 11:17	03/18/17 21:00	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-347541/1-A
Matrix: Solid
Analysis Batch: 347548

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 347541

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		0.22	0.043	mg/Kg		03/15/17 11:13	03/15/17 17:47	1
PCB-1221	ND		0.22	0.043	mg/Kg		03/15/17 11:13	03/15/17 17:47	1
PCB-1232	ND		0.22	0.043	mg/Kg		03/15/17 11:13	03/15/17 17:47	1
PCB-1242	ND		0.22	0.043	mg/Kg		03/15/17 11:13	03/15/17 17:47	1
PCB-1248	ND		0.22	0.043	mg/Kg		03/15/17 11:13	03/15/17 17:47	1
PCB-1254	ND		0.22	0.10	mg/Kg		03/15/17 11:13	03/15/17 17:47	1
PCB-1260	ND		0.22	0.10	mg/Kg		03/15/17 11:13	03/15/17 17:47	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>Tetrachloro-m-xylene</i>	94		60 - 154	03/15/17 11:13	03/15/17 17:47	1
<i>DCB Decachlorobiphenyl</i>	112		65 - 174	03/15/17 11:13	03/15/17 17:47	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114622-1

Lab Sample ID: LCS 480-347541/2-A
Matrix: Solid
Analysis Batch: 347548

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 347541

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
PCB-1016	2.31	2.42		mg/Kg		104	51 - 185
PCB-1260	2.31	2.57		mg/Kg		111	61 - 184
Surrogate		LCS					
	%Recovery	Qualifier	Limits				
Tetrachloro-m-xylene	116		60 - 154				
DCB Decachlorobiphenyl	134		65 - 174				

Lab Sample ID: 480-114622-1 MS
Matrix: Solid
Analysis Batch: 347548

Client Sample ID: WC-11 20170314
Prep Type: Total/NA
Prep Batch: 347541

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
PCB-1016	ND		2.99	2.91		mg/Kg	☼	97	50 - 177
PCB-1260	0.47		2.99	3.24		mg/Kg	☼	93	33 - 200
Surrogate		MS							
	%Recovery	Qualifier	Limits						
Tetrachloro-m-xylene	110		60 - 154						
DCB Decachlorobiphenyl	121		65 - 174						

Lab Sample ID: 480-114622-1 MSD
Matrix: Solid
Analysis Batch: 347548

Client Sample ID: WC-11 20170314
Prep Type: Total/NA
Prep Batch: 347541

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec. Limits	RPD	
				Result	Qualifier					RPD	Limit
PCB-1016	ND		2.19	2.37		mg/Kg	☼	108	50 - 177	21	50
PCB-1260	0.47		2.19	2.88		mg/Kg	☼	110	33 - 200	12	50
Surrogate		MSD									
	%Recovery	Qualifier	Limits								
Tetrachloro-m-xylene	118		60 - 154								
DCB Decachlorobiphenyl	135		65 - 174								

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-347684/2-A
Matrix: Solid
Analysis Batch: 348043

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 347684

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.015	0.0056	mg/L		03/16/17 10:36	03/17/17 13:19	1
Barium	ND		1.0	0.10	mg/L		03/16/17 10:36	03/17/17 13:19	1
Cadmium	ND		0.0020	0.00050	mg/L		03/16/17 10:36	03/17/17 13:19	1
Chromium	ND		0.020	0.010	mg/L		03/16/17 10:36	03/17/17 13:19	1
Lead	ND		0.020	0.0030	mg/L		03/16/17 10:36	03/17/17 13:19	1
Selenium	ND		0.025	0.0087	mg/L		03/16/17 10:36	03/17/17 13:19	1
Silver	ND		0.0060	0.0017	mg/L		03/16/17 10:36	03/17/17 13:19	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114622-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-347684/3-A

Matrix: Solid

Analysis Batch: 348043

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 347684

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.13		mg/L		113	80 - 120
Barium	1.00	1.01		mg/L		101	80 - 120
Cadmium	1.00	1.06		mg/L		106	80 - 120
Chromium	1.00	1.05		mg/L		105	80 - 120
Lead	1.00	1.06		mg/L		106	80 - 120
Selenium	1.00	1.14		mg/L		114	80 - 120
Silver	1.00	1.08		mg/L		108	80 - 120

Lab Sample ID: LB 480-347558/1-C

Matrix: Solid

Analysis Batch: 348043

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 347684

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		03/16/17 10:36	03/17/17 13:16	1
Barium	ND		1.0	0.10	mg/L		03/16/17 10:36	03/17/17 13:16	1
Cadmium	ND		0.0020	0.00050	mg/L		03/16/17 10:36	03/17/17 13:16	1
Chromium	ND		0.020	0.010	mg/L		03/16/17 10:36	03/17/17 13:16	1
Lead	ND		0.020	0.0030	mg/L		03/16/17 10:36	03/17/17 13:16	1
Selenium	ND		0.025	0.0087	mg/L		03/16/17 10:36	03/17/17 13:16	1
Silver	ND		0.0060	0.0017	mg/L		03/16/17 10:36	03/17/17 13:16	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-347680/2-A

Matrix: Solid

Analysis Batch: 347741

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 347680

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/16/17 10:30	03/16/17 14:07	1

Lab Sample ID: LCS 480-347680/3-A

Matrix: Solid

Analysis Batch: 347741

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 347680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00668	0.00687		mg/L		103	80 - 120

Lab Sample ID: LB 480-347558/1-B

Matrix: Solid

Analysis Batch: 347741

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 347680

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/16/17 10:30	03/16/17 14:01	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114622-1

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-347986/1
Matrix: Solid
Analysis Batch: 347986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	80.00		Degrees F		99	97.5 - 102.5

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-347705/1-A
Matrix: Solid
Analysis Batch: 347755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 347705

Analyte	MB Result	MB Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10.0	10.0 mg/Kg		03/16/17 03:10	03/16/17 16:09	1

Lab Sample ID: LCS 480-347705/2-A ^25
Matrix: Solid
Analysis Batch: 347755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 347705

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Reactive	1000	336.3		mg/Kg		34	10 - 100

Lab Sample ID: 480-114622-1 DU
Matrix: Solid
Analysis Batch: 347755

Client Sample ID: WC-11 20170314
Prep Type: Total/NA
Prep Batch: 347705

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Cyanide, Reactive	ND		ND		mg/Kg		NC	20

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-347699/1-A
Matrix: Solid
Analysis Batch: 347757

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 347699

Analyte	MB Result	MB Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		10.0	10.0 mg/Kg		03/16/17 03:10	03/16/17 13:45	1

Lab Sample ID: LCS 480-347699/2-A
Matrix: Solid
Analysis Batch: 347757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 347699

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide, Reactive	800	721.4		mg/Kg		90	10 - 100

Lab Sample ID: 480-114622-1 DU
Matrix: Solid
Analysis Batch: 347757

Client Sample ID: WC-11 20170314
Prep Type: Total/NA
Prep Batch: 347699

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Sulfide, Reactive	ND		ND		mg/Kg		NC	20

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114622-1

Method: 9045D - pH

Lab Sample ID: LCS 480-347939/1
Matrix: Solid
Analysis Batch: 347939

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114622-1

GC/MS VOA

Leach Batch: 347566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114622-1	WC-11 20170314	TCLP	Solid	1311	
480-114622-2	WC-12 20170314	TCLP	Solid	1311	
LB 480-347566/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 347652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114622-1	WC-11 20170314	TCLP	Solid	8260C	347566
480-114622-2	WC-12 20170314	TCLP	Solid	8260C	347566
LB 480-347566/1-A	Method Blank	TCLP	Solid	8260C	347566
MB 480-347652/6	Method Blank	Total/NA	Solid	8260C	
LCS 480-347652/4	Lab Control Sample	Total/NA	Solid	8260C	

GC/MS Semi VOA

Leach Batch: 347558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114622-1	WC-11 20170314	TCLP	Solid	1311	
480-114622-2	WC-12 20170314	TCLP	Solid	1311	
LB 480-347558/1-D	Method Blank	TCLP	Solid	1311	

Prep Batch: 347695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114622-1	WC-11 20170314	TCLP	Solid	3510C	347558
480-114622-2	WC-12 20170314	TCLP	Solid	3510C	347558
LB 480-347558/1-D	Method Blank	TCLP	Solid	3510C	347558
MB 480-347695/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-347695/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-347695/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 347965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114622-1	WC-11 20170314	TCLP	Solid	8270D	347695
480-114622-2	WC-12 20170314	TCLP	Solid	8270D	347695
LB 480-347558/1-D	Method Blank	TCLP	Solid	8270D	347695
MB 480-347695/1-A	Method Blank	Total/NA	Solid	8270D	347695
LCS 480-347695/2-A	Lab Control Sample	Total/NA	Solid	8270D	347695
LCSD 480-347695/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	347695

GC Semi VOA

Prep Batch: 347541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114622-1	WC-11 20170314	Total/NA	Solid	3550C	
480-114622-2	WC-12 20170314	Total/NA	Solid	3550C	
MB 480-347541/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-347541/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-114622-1 MS	WC-11 20170314	Total/NA	Solid	3550C	
480-114622-1 MSD	WC-11 20170314	Total/NA	Solid	3550C	

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
 Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114622-1

GC Semi VOA (Continued)

Analysis Batch: 347548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114622-1	WC-11 20170314	Total/NA	Solid	8082A	347541
480-114622-2	WC-12 20170314	Total/NA	Solid	8082A	347541
MB 480-347541/1-A	Method Blank	Total/NA	Solid	8082A	347541
LCS 480-347541/2-A	Lab Control Sample	Total/NA	Solid	8082A	347541
480-114622-1 MS	WC-11 20170314	Total/NA	Solid	8082A	347541
480-114622-1 MSD	WC-11 20170314	Total/NA	Solid	8082A	347541

Metals

Leach Batch: 347558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114622-1	WC-11 20170314	TCLP	Solid	1311	
480-114622-2	WC-12 20170314	TCLP	Solid	1311	
LB 480-347558/1-B	Method Blank	TCLP	Solid	1311	
LB 480-347558/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 347680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114622-1	WC-11 20170314	TCLP	Solid	7470A	347558
480-114622-2	WC-12 20170314	TCLP	Solid	7470A	347558
LB 480-347558/1-B	Method Blank	TCLP	Solid	7470A	347558
MB 480-347680/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 480-347680/3-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 347684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114622-1	WC-11 20170314	TCLP	Solid	3010A	347558
480-114622-2	WC-12 20170314	TCLP	Solid	3010A	347558
LB 480-347558/1-C	Method Blank	TCLP	Solid	3010A	347558
MB 480-347684/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 480-347684/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 347741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114622-1	WC-11 20170314	TCLP	Solid	7470A	347680
480-114622-2	WC-12 20170314	TCLP	Solid	7470A	347680
LB 480-347558/1-B	Method Blank	TCLP	Solid	7470A	347680
MB 480-347680/2-A	Method Blank	Total/NA	Solid	7470A	347680
LCS 480-347680/3-A	Lab Control Sample	Total/NA	Solid	7470A	347680

Analysis Batch: 348024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114622-1	WC-11 20170314	TCLP	Solid	6010C	347684
480-114622-2	WC-12 20170314	TCLP	Solid	6010C	347684

Analysis Batch: 348043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114622-1	WC-11 20170314	TCLP	Solid	6010C	347684
480-114622-2	WC-12 20170314	TCLP	Solid	6010C	347684
LB 480-347558/1-C	Method Blank	TCLP	Solid	6010C	347684

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
 Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114622-1

Metals (Continued)

Analysis Batch: 348043 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-347684/2-A	Method Blank	Total/NA	Solid	6010C	347684
LCS 480-347684/3-A	Lab Control Sample	Total/NA	Solid	6010C	347684

General Chemistry

Analysis Batch: 347471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114622-1	WC-11 20170314	Total/NA	Solid	Moisture	
480-114622-2	WC-12 20170314	Total/NA	Solid	Moisture	

Prep Batch: 347699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114622-1	WC-11 20170314	Total/NA	Solid	7.3.4	
480-114622-2	WC-12 20170314	Total/NA	Solid	7.3.4	
MB 480-347699/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 480-347699/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	
480-114622-1 DU	WC-11 20170314	Total/NA	Solid	7.3.4	

Prep Batch: 347705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114622-1	WC-11 20170314	Total/NA	Solid	7.3.3	
480-114622-2	WC-12 20170314	Total/NA	Solid	7.3.3	
MB 480-347705/1-A	Method Blank	Total/NA	Solid	7.3.3	
LCS 480-347705/2-A ^25	Lab Control Sample	Total/NA	Solid	7.3.3	
480-114622-1 DU	WC-11 20170314	Total/NA	Solid	7.3.3	

Analysis Batch: 347755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114622-1	WC-11 20170314	Total/NA	Solid	9012	347705
480-114622-2	WC-12 20170314	Total/NA	Solid	9012	347705
MB 480-347705/1-A	Method Blank	Total/NA	Solid	9012	347705
LCS 480-347705/2-A ^25	Lab Control Sample	Total/NA	Solid	9012	347705
480-114622-1 DU	WC-11 20170314	Total/NA	Solid	9012	347705

Analysis Batch: 347757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114622-1	WC-11 20170314	Total/NA	Solid	9034	347699
480-114622-2	WC-12 20170314	Total/NA	Solid	9034	347699
MB 480-347699/1-A	Method Blank	Total/NA	Solid	9034	347699
LCS 480-347699/2-A	Lab Control Sample	Total/NA	Solid	9034	347699
480-114622-1 DU	WC-11 20170314	Total/NA	Solid	9034	347699

Analysis Batch: 347939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114622-1	WC-11 20170314	Total/NA	Solid	9045D	
480-114622-2	WC-12 20170314	Total/NA	Solid	9045D	
LCS 480-347939/1	Lab Control Sample	Total/NA	Solid	9045D	

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114622-1

General Chemistry (Continued)

Analysis Batch: 347940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114622-1	WC-11 20170314	Total/NA	Solid	9095B	
480-114622-2	WC-12 20170314	Total/NA	Solid	9095B	

Analysis Batch: 347986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114622-1	WC-11 20170314	Total/NA	Solid	1010A	
480-114622-2	WC-12 20170314	Total/NA	Solid	1010A	
LCS 480-347986/1	Lab Control Sample	Total/NA	Solid	1010A	

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Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114622-1

Client Sample ID: WC-11 20170314

Lab Sample ID: 480-114622-1

Date Collected: 03/14/17 14:30

Matrix: Solid

Date Received: 03/14/17 18:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			347566	03/15/17 12:42	MAS	TAL BUF
TCLP	Analysis	8260C		10	347652	03/16/17 15:34	SWO	TAL BUF
TCLP	Leach	1311			347558	03/15/17 12:10	MAS	TAL BUF
TCLP	Prep	3510C			347695	03/16/17 11:17	NMC	TAL BUF
TCLP	Analysis	8270D		1	347965	03/19/17 00:05	MKP	TAL BUF
TCLP	Leach	1311			347558	03/15/17 12:10	MAS	TAL BUF
TCLP	Prep	3010A			347684	03/16/17 10:36	MVZ	TAL BUF
TCLP	Analysis	6010C		1	348043	03/17/17 14:04	SLB	TAL BUF
TCLP	Leach	1311			347558	03/15/17 12:10	MAS	TAL BUF
TCLP	Prep	3010A			347684	03/16/17 10:36	MVZ	TAL BUF
TCLP	Analysis	6010C		2	348024	03/18/17 12:17	SLB	TAL BUF
TCLP	Leach	1311			347558	03/15/17 12:10	MAS	TAL BUF
TCLP	Prep	7470A			347680	03/16/17 10:30	JRK	TAL BUF
TCLP	Analysis	7470A		1	347741	03/16/17 14:24	JRK	TAL BUF
Total/NA	Analysis	1010A		1	347986	03/19/17 16:05	MDL	TAL BUF
Total/NA	Prep	7.3.3			347705	03/16/17 03:10	LAW	TAL BUF
Total/NA	Analysis	9012		1	347755	03/16/17 16:09	MDL	TAL BUF
Total/NA	Prep	7.3.4			347699	03/16/17 03:10	LAW	TAL BUF
Total/NA	Analysis	9034		1	347757	03/16/17 13:45	MDL	TAL BUF
Total/NA	Analysis	9045D		1	347939	03/17/17 17:11	DSC	TAL BUF
Total/NA	Analysis	9095B		1	347940	03/17/17 16:15	DSC	TAL BUF
Total/NA	Analysis	Moisture		1	347471	03/15/17 02:03	CSW	TAL BUF

Client Sample ID: WC-11 20170314

Lab Sample ID: 480-114622-1

Date Collected: 03/14/17 14:30

Matrix: Solid

Date Received: 03/14/17 18:12

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			347541	03/15/17 11:13	RJS	TAL BUF
Total/NA	Analysis	8082A		1	347548	03/15/17 19:23	JMO	TAL BUF

Client Sample ID: WC-12 20170314

Lab Sample ID: 480-114622-2

Date Collected: 03/14/17 15:30

Matrix: Solid

Date Received: 03/14/17 18:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			347566	03/15/17 12:42	MAS	TAL BUF
TCLP	Analysis	8260C		10	347652	03/16/17 16:02	SWO	TAL BUF
TCLP	Leach	1311			347558	03/15/17 12:10	MAS	TAL BUF
TCLP	Prep	3510C			347695	03/16/17 11:17	NMC	TAL BUF
TCLP	Analysis	8270D		1	347965	03/19/17 00:31	MKP	TAL BUF
TCLP	Leach	1311			347558	03/15/17 12:10	MAS	TAL BUF
TCLP	Prep	3010A			347684	03/16/17 10:36	MVZ	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
 Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114622-1

Client Sample ID: WC-12 20170314

Lab Sample ID: 480-114622-2

Date Collected: 03/14/17 15:30

Matrix: Solid

Date Received: 03/14/17 18:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6010C		1	348043	03/17/17 14:08	SLB	TAL BUF
TCLP	Leach	1311			347558	03/15/17 12:10	MAS	TAL BUF
TCLP	Prep	3010A			347684	03/16/17 10:36	MVZ	TAL BUF
TCLP	Analysis	6010C		2	348024	03/18/17 12:21	SLB	TAL BUF
TCLP	Leach	1311			347558	03/15/17 12:10	MAS	TAL BUF
TCLP	Prep	7470A			347680	03/16/17 10:30	JRK	TAL BUF
TCLP	Analysis	7470A		1	347741	03/16/17 14:30	JRK	TAL BUF
Total/NA	Analysis	1010A		1	347986	03/19/17 16:05	MDL	TAL BUF
Total/NA	Prep	7.3.3			347705	03/16/17 03:10	LAW	TAL BUF
Total/NA	Analysis	9012		1	347755	03/16/17 16:09	MDL	TAL BUF
Total/NA	Prep	7.3.4			347699	03/16/17 03:10	LAW	TAL BUF
Total/NA	Analysis	9034		1	347757	03/16/17 13:45	MDL	TAL BUF
Total/NA	Analysis	9045D		1	347939	03/17/17 17:11	DSC	TAL BUF
Total/NA	Analysis	9095B		1	347940	03/17/17 16:15	DSC	TAL BUF
Total/NA	Analysis	Moisture		1	347471	03/15/17 02:03	CSW	TAL BUF

Client Sample ID: WC-12 20170314

Lab Sample ID: 480-114622-2

Date Collected: 03/14/17 15:30

Matrix: Solid

Date Received: 03/14/17 18:12

Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			347541	03/15/17 11:18	RJS	TAL BUF
Total/NA	Analysis	8082A		1	347548	03/15/17 19:39	JMO	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114622-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
9012	7.3.3	Solid	Cyanide, Reactive
9034	7.3.4	Solid	Sulfide, Reactive
9045D		Solid	Temperature
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Certification renewal pending - certification considered valid.

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114622-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
9045D	pH	SW846	TAL BUF
9095B	Paint Filter	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114622-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-114622-1	WC-11 20170314	Solid	03/14/17 14:30	03/14/17 18:12
480-114622-2	WC-12 20170314	Solid	03/14/17 15:30	03/14/17 18:12

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Canaserst, NY 14226
Phone: 716.691.2600 Fax: 716.691.7991

THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (07'13)

Regulatory Program: DW NPDES RCRA Other:

Company Name: ARLADIS		Client Contact		Project Manager: Nellie Debo		Site Contact: J. Braker		Date: 03-14-17		COC No: 1 of 1 COCS	
Address: 50 Fenwick Plaza, Suite 600		City/State/Zip: Buffalo, NY 14202		Phone: 716-667-0900		Fax:		Carrier:		Sampler: JB	
Project Name: Flexo		Site: Buffalo		P O #:		Analysis Turnaround Time		For Lab Use Only:		Walk-in Client:	
						<input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below: 5 Day <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Lab Sampling:		Job / SDG No.:	
Sample Identification		Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes:		
WC-11 20170314		03/14/17	14:30	C	Soil	5	MMX	MMX	(9045D) Contaminant SWB6 Flash 8% - 1010A Free Liq. 9095 Residual 9012 Residual 9034 TLP Metals 6010C TLP Metals 7111B TLP PCB 8082A TLP Semivolatiles TLP Volatiles 6270D 6260C		
WC-12 20170314		03/14/17	15:30	C	Soil	5	MMX	MMX	480-114622 COC 		
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other: None											
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.											
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown											
Special Instructions/QC Requirements & Comments: 5 Day TAT											
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No.: 900329		Cooler Temp. (°C): Obs'd:		Corr'd:		Therm ID No.:		Return to Client: <input type="checkbox"/>	
Relinquished by: [Signature]		Company: ARLADIS		Received by: [Signature]		Company: Test America		Date/Time: 3-14-17 18:12		Disposal by Lab: <input checked="" type="checkbox"/>	
Relinquished by:		Company:		Received in Laboratory by:		Company:		Date/Time:		Archive for _____ Months	

SNOW 1.8 #1

14

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-114622-1

Login Number: 114622

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	SNOW
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 sample IDs on the containers 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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-114703-1

Client Project/Site: Flexo Transparent

For:

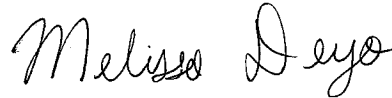
ARCADIS U.S. Inc

50 Fountain Plaza

Suite 600

Buffalo, New York 14202

Attn: Katherine Clubine



Authorized for release by:

3/22/2017 5:05:07 PM

Melissa Deyo, Project Manager I

(716)504-9874

melissa.deyo@testamericainc.com

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

Job ID: 480-114703-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-114703-1

Receipt

The samples were received on 3/16/2017 7:07 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3° C.

GC/MS VOA

Method(s) 8260C: Reported analyte concentrations in the following samples are below 200 ug/kg and may be biased low due to the samples not being collected according to 5035-L/5035A-L low-level specifications: WC-13 (480-114703-1), WC-14 (480-114703-2), WC-15 (480-114703-3), WC-16 (480-114703-4), (480-114703-E-1-B MS) and (480-114703-E-1-C MSD).

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 appearance and viscosity: WC-15 (480-114703-3). Elevated reporting limits (RL) are provided.

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

GC Semi VOA

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

Metals

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

General Chemistry

Method(s) 9045C, 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: WC-13 (480-114703-1), WC-14 (480-114703-2), WC-15 (480-114703-3) and WC-16 (480-114703-4).

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.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

Client Sample ID: WC-13

Lab Sample ID: 480-114703-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	Passed				mL/100g	1		9095B	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.1		2.4	0.47	mg/Kg	1	☼	6010C	Total/NA
Barium	68.2		0.59	0.13	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.20	J	0.24	0.035	mg/Kg	1	☼	6010C	Total/NA
Chromium	17.0		0.59	0.24	mg/Kg	1	☼	6010C	Total/NA
Lead	8.2		1.2	0.28	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.84	J	4.7	0.47	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.055		0.025	0.010	mg/Kg	1	☼	7471B	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176.0		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	7.3	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	23.1	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: WC-14

Lab Sample ID: 480-114703-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	Passed				mL/100g	1		9095B	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.2		2.2	0.44	mg/Kg	1	☼	6010C	Total/NA
Barium	58.3		0.55	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.16	J	0.22	0.033	mg/Kg	1	☼	6010C	Total/NA
Chromium	15.2		0.55	0.22	mg/Kg	1	☼	6010C	Total/NA
Lead	8.7		1.1	0.26	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.70	J	4.4	0.44	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.031		0.022	0.0087	mg/Kg	1	☼	7471B	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176.0		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	7.5	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	23.0	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: WC-15

Lab Sample ID: 480-114703-3

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	Passed				mL/100g	1		9095B	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	1.1		0.21	0.099	mg/Kg	1	☼	8082A	Total/NA
PCB-1260	1.1		0.21	0.099	mg/Kg	1	☼	8082A	Total/NA
Arsenic	7.1		2.6	0.52	mg/Kg	1	☼	6010C	Total/NA
Barium	66.0		0.65	0.14	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.24	J	0.26	0.039	mg/Kg	1	☼	6010C	Total/NA
Chromium	16.3		0.65	0.26	mg/Kg	1	☼	6010C	Total/NA
Lead	25.9		1.3	0.31	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.90	J	5.2	0.52	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.064		0.023	0.0094	mg/Kg	1	☼	7471B	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176.0		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	7.8	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	22.0	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
 Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

Client Sample ID: WC-16

Lab Sample ID: 480-114703-4

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	Passed				mL/100g	1		9095B	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	1.5		0.23	0.11	mg/Kg	1	☼	8082A	Total/NA
PCB-1260	1.5		0.23	0.11	mg/Kg	1	☼	8082A	Total/NA
Arsenic	9.9		2.5	0.49	mg/Kg	1	☼	6010C	Total/NA
Barium	97.7		0.61	0.14	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.39		0.25	0.037	mg/Kg	1	☼	6010C	Total/NA
Chromium	14.5		0.61	0.25	mg/Kg	1	☼	6010C	Total/NA
Lead	76.6		1.2	0.29	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.68	J	4.9	0.49	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.10		0.025	0.0099	mg/Kg	1	☼	7471B	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176.0		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	7.7	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	22.5	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo



Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

Client Sample ID: WC-13

Date Collected: 03/16/17 16:00

Date Received: 03/16/17 19:07

Lab Sample ID: 480-114703-1

Matrix: Solid

Percent Solids: 82.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		5.9	0.72	ug/Kg	☼	03/20/17 11:12	03/20/17 19:58	1
1,2-Dichloroethane	ND		5.9	0.29	ug/Kg	☼	03/20/17 11:12	03/20/17 19:58	1
2-Butanone (MEK)	ND	F1	29	2.1	ug/Kg	☼	03/20/17 11:12	03/20/17 19:58	1
Benzene	ND		5.9	0.29	ug/Kg	☼	03/20/17 11:12	03/20/17 19:58	1
Carbon tetrachloride	ND		5.9	0.57	ug/Kg	☼	03/20/17 11:12	03/20/17 19:58	1
Chlorobenzene	ND		5.9	0.77	ug/Kg	☼	03/20/17 11:12	03/20/17 19:58	1
Chloroform	ND		5.9	0.36	ug/Kg	☼	03/20/17 11:12	03/20/17 19:58	1
Tetrachloroethene	ND		5.9	0.79	ug/Kg	☼	03/20/17 11:12	03/20/17 19:58	1
Trichloroethene	ND		5.9	1.3	ug/Kg	☼	03/20/17 11:12	03/20/17 19:58	1
Vinyl chloride	ND		5.9	0.71	ug/Kg	☼	03/20/17 11:12	03/20/17 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		64 - 126	03/20/17 11:12	03/20/17 19:58	1
4-Bromofluorobenzene (Surr)	105		72 - 126	03/20/17 11:12	03/20/17 19:58	1
Dibromofluoromethane (Surr)	101		60 - 140	03/20/17 11:12	03/20/17 19:58	1
Toluene-d8 (Surr)	105		71 - 125	03/20/17 11:12	03/20/17 19:58	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		400	31	ug/Kg	☼	03/20/17 08:04	03/21/17 14:39	1
2,4-Dinitrotoluene	ND		200	42	ug/Kg	☼	03/20/17 08:04	03/21/17 14:39	1
2,4,5-Trichlorophenol	ND		200	55	ug/Kg	☼	03/20/17 08:04	03/21/17 14:39	1
2,4,6-Trichlorophenol	ND		200	41	ug/Kg	☼	03/20/17 08:04	03/21/17 14:39	1
2-Methylphenol	ND		200	24	ug/Kg	☼	03/20/17 08:04	03/21/17 14:39	1
3-Methylphenol	ND		400	31	ug/Kg	☼	03/20/17 08:04	03/21/17 14:39	1
4-Methylphenol	ND		400	24	ug/Kg	☼	03/20/17 08:04	03/21/17 14:39	1
Hexachlorobenzene	ND		200	28	ug/Kg	☼	03/20/17 08:04	03/21/17 14:39	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	03/20/17 08:04	03/21/17 14:39	1
Hexachloroethane	ND		200	26	ug/Kg	☼	03/20/17 08:04	03/21/17 14:39	1
Nitrobenzene	ND		200	23	ug/Kg	☼	03/20/17 08:04	03/21/17 14:39	1
Pentachlorophenol	ND		400	200	ug/Kg	☼	03/20/17 08:04	03/21/17 14:39	1
Pyridine	ND		400	29	ug/Kg	☼	03/20/17 08:04	03/21/17 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	95		54 - 120	03/20/17 08:04	03/21/17 14:39	1
2-Fluorobiphenyl	89		60 - 120	03/20/17 08:04	03/21/17 14:39	1
2-Fluorophenol (Surr)	79		52 - 120	03/20/17 08:04	03/21/17 14:39	1
Nitrobenzene-d5 (Surr)	78		53 - 120	03/20/17 08:04	03/21/17 14:39	1
p-Terphenyl-d14 (Surr)	107		65 - 121	03/20/17 08:04	03/21/17 14:39	1
Phenol-d5 (Surr)	81		54 - 120	03/20/17 08:04	03/21/17 14:39	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.048	mg/Kg	☼	03/18/17 12:52	03/20/17 16:27	1
PCB-1221	ND		0.24	0.048	mg/Kg	☼	03/18/17 12:52	03/20/17 16:27	1
PCB-1232	ND		0.24	0.048	mg/Kg	☼	03/18/17 12:52	03/20/17 16:27	1
PCB-1242	ND		0.24	0.048	mg/Kg	☼	03/18/17 12:52	03/20/17 16:27	1
PCB-1248	ND		0.24	0.048	mg/Kg	☼	03/18/17 12:52	03/20/17 16:27	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	03/18/17 12:52	03/20/17 16:27	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	03/18/17 12:52	03/20/17 16:27	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

Client Sample ID: WC-13
Date Collected: 03/16/17 16:00
Date Received: 03/16/17 19:07

Lab Sample ID: 480-114703-1
Matrix: Solid
Percent Solids: 82.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	120		60 - 154	03/18/17 12:52	03/20/17 16:27	1
DCB Decachlorobiphenyl	124		65 - 174	03/18/17 12:52	03/20/17 16:27	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.1		2.4	0.47	mg/Kg	☼	03/17/17 15:40	03/20/17 16:48	1
Barium	68.2		0.59	0.13	mg/Kg	☼	03/17/17 15:40	03/20/17 16:48	1
Cadmium	0.20	J	0.24	0.035	mg/Kg	☼	03/17/17 15:40	03/20/17 16:48	1
Chromium	17.0		0.59	0.24	mg/Kg	☼	03/17/17 15:40	03/20/17 16:48	1
Lead	8.2		1.2	0.28	mg/Kg	☼	03/17/17 15:40	03/20/17 16:48	1
Selenium	0.84	J	4.7	0.47	mg/Kg	☼	03/17/17 15:40	03/20/17 16:48	1
Silver	ND		0.71	0.24	mg/Kg	☼	03/17/17 15:40	03/20/17 16:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.055		0.025	0.010	mg/Kg	☼	03/20/17 09:15	03/20/17 13:19	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	Passed				mL/100g			03/17/17 16:15	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176.0		50.0	50.0	Degrees F			03/22/17 16:41	1
Cyanide, Reactive	ND		10	10	mg/Kg		03/20/17 01:05	03/21/17 04:05	1
Sulfide, Reactive	ND		10	10	mg/Kg		03/20/17 01:05	03/20/17 23:25	1
pH	7.3	HF	0.1	0.1	SU			03/17/17 17:11	1
Temperature	23.1	HF	0.001	0.001	Degrees C			03/17/17 17:11	1

Client Sample ID: WC-14
Date Collected: 03/16/17 16:15
Date Received: 03/16/17 19:07

Lab Sample ID: 480-114703-2
Matrix: Solid
Percent Solids: 83.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		5.9	0.72	ug/Kg	☼	03/20/17 11:12	03/20/17 20:24	1
1,2-Dichloroethane	ND		5.9	0.29	ug/Kg	☼	03/20/17 11:12	03/20/17 20:24	1
2-Butanone (MEK)	ND		29	2.2	ug/Kg	☼	03/20/17 11:12	03/20/17 20:24	1
Benzene	ND		5.9	0.29	ug/Kg	☼	03/20/17 11:12	03/20/17 20:24	1
Carbon tetrachloride	ND		5.9	0.57	ug/Kg	☼	03/20/17 11:12	03/20/17 20:24	1
Chlorobenzene	ND		5.9	0.78	ug/Kg	☼	03/20/17 11:12	03/20/17 20:24	1
Chloroform	ND		5.9	0.36	ug/Kg	☼	03/20/17 11:12	03/20/17 20:24	1
Tetrachloroethene	ND		5.9	0.79	ug/Kg	☼	03/20/17 11:12	03/20/17 20:24	1
Trichloroethene	ND		5.9	1.3	ug/Kg	☼	03/20/17 11:12	03/20/17 20:24	1
Vinyl chloride	ND		5.9	0.72	ug/Kg	☼	03/20/17 11:12	03/20/17 20:24	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,2-Dichloroethane-d4 (Surr)	102		64 - 126	03/20/17 11:12	03/20/17 20:24	1			
4-Bromofluorobenzene (Surr)	107		72 - 126	03/20/17 11:12	03/20/17 20:24	1			
Dibromofluoromethane (Surr)	103		60 - 140	03/20/17 11:12	03/20/17 20:24	1			
Toluene-d8 (Surr)	103		71 - 125	03/20/17 11:12	03/20/17 20:24	1			

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

Client Sample ID: WC-14
Date Collected: 03/16/17 16:15
Date Received: 03/16/17 19:07

Lab Sample ID: 480-114703-2
Matrix: Solid
Percent Solids: 83.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		390	31	ug/Kg	☼	03/20/17 08:04	03/21/17 15:05	1
2,4-Dinitrotoluene	ND		200	42	ug/Kg	☼	03/20/17 08:04	03/21/17 15:05	1
2,4,5-Trichlorophenol	ND		200	55	ug/Kg	☼	03/20/17 08:04	03/21/17 15:05	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	03/20/17 08:04	03/21/17 15:05	1
2-Methylphenol	ND		200	24	ug/Kg	☼	03/20/17 08:04	03/21/17 15:05	1
3-Methylphenol	ND		390	31	ug/Kg	☼	03/20/17 08:04	03/21/17 15:05	1
4-Methylphenol	ND		390	24	ug/Kg	☼	03/20/17 08:04	03/21/17 15:05	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	03/20/17 08:04	03/21/17 15:05	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	03/20/17 08:04	03/21/17 15:05	1
Hexachloroethane	ND		200	26	ug/Kg	☼	03/20/17 08:04	03/21/17 15:05	1
Nitrobenzene	ND		200	23	ug/Kg	☼	03/20/17 08:04	03/21/17 15:05	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	03/20/17 08:04	03/21/17 15:05	1
Pyridine	ND		390	29	ug/Kg	☼	03/20/17 08:04	03/21/17 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		54 - 120	03/20/17 08:04	03/21/17 15:05	1
2-Fluorobiphenyl	84		60 - 120	03/20/17 08:04	03/21/17 15:05	1
2-Fluorophenol (Surr)	72		52 - 120	03/20/17 08:04	03/21/17 15:05	1
Nitrobenzene-d5 (Surr)	77		53 - 120	03/20/17 08:04	03/21/17 15:05	1
p-Terphenyl-d14 (Surr)	101		65 - 121	03/20/17 08:04	03/21/17 15:05	1
Phenol-d5 (Surr)	75		54 - 120	03/20/17 08:04	03/21/17 15:05	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.22	0.043	mg/Kg	☼	03/18/17 12:52	03/20/17 16:11	1
PCB-1221	ND		0.22	0.043	mg/Kg	☼	03/18/17 12:52	03/20/17 16:11	1
PCB-1232	ND		0.22	0.043	mg/Kg	☼	03/18/17 12:52	03/20/17 16:11	1
PCB-1242	ND		0.22	0.043	mg/Kg	☼	03/18/17 12:52	03/20/17 16:11	1
PCB-1248	ND		0.22	0.043	mg/Kg	☼	03/18/17 12:52	03/20/17 16:11	1
PCB-1254	ND		0.22	0.10	mg/Kg	☼	03/18/17 12:52	03/20/17 16:11	1
PCB-1260	ND		0.22	0.10	mg/Kg	☼	03/18/17 12:52	03/20/17 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	123		60 - 154	03/18/17 12:52	03/20/17 16:11	1
DCB Decachlorobiphenyl	129		65 - 174	03/18/17 12:52	03/20/17 16:11	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.2		2.2	0.44	mg/Kg	☼	03/17/17 15:40	03/20/17 16:52	1
Barium	58.3		0.55	0.12	mg/Kg	☼	03/17/17 15:40	03/20/17 16:52	1
Cadmium	0.16	J	0.22	0.033	mg/Kg	☼	03/17/17 15:40	03/20/17 16:52	1
Chromium	15.2		0.55	0.22	mg/Kg	☼	03/17/17 15:40	03/20/17 16:52	1
Lead	8.7		1.1	0.26	mg/Kg	☼	03/17/17 15:40	03/20/17 16:52	1
Selenium	0.70	J	4.4	0.44	mg/Kg	☼	03/17/17 15:40	03/20/17 16:52	1
Silver	ND		0.65	0.22	mg/Kg	☼	03/17/17 15:40	03/20/17 16:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.022	0.0087	mg/Kg	☼	03/20/17 09:15	03/20/17 13:20	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

Client Sample ID: WC-14
Date Collected: 03/16/17 16:15
Date Received: 03/16/17 19:07

Lab Sample ID: 480-114703-2
Matrix: Solid
Percent Solids: 83.6

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	Passed				mL/100g			03/17/17 16:15	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176.0		50.0	50.0	Degrees F			03/22/17 16:41	1
Cyanide, Reactive	ND		10	10	mg/Kg		03/20/17 01:05	03/21/17 04:05	1
Sulfide, Reactive	ND		10	10	mg/Kg		03/20/17 01:05	03/20/17 23:25	1
pH	7.5	HF	0.1	0.1	SU			03/17/17 17:11	1
Temperature	23.0	HF	0.001	0.001	Degrees C			03/17/17 17:11	1

Client Sample ID: WC-15
Date Collected: 03/16/17 16:30
Date Received: 03/16/17 19:07

Lab Sample ID: 480-114703-3
Matrix: Solid
Percent Solids: 82.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		6.0	0.73	ug/Kg	☼	03/20/17 11:12	03/20/17 20:49	1
1,2-Dichloroethane	ND		6.0	0.30	ug/Kg	☼	03/20/17 11:12	03/20/17 20:49	1
2-Butanone (MEK)	ND		30	2.2	ug/Kg	☼	03/20/17 11:12	03/20/17 20:49	1
Benzene	ND		6.0	0.29	ug/Kg	☼	03/20/17 11:12	03/20/17 20:49	1
Carbon tetrachloride	ND		6.0	0.58	ug/Kg	☼	03/20/17 11:12	03/20/17 20:49	1
Chlorobenzene	ND		6.0	0.79	ug/Kg	☼	03/20/17 11:12	03/20/17 20:49	1
Chloroform	ND		6.0	0.37	ug/Kg	☼	03/20/17 11:12	03/20/17 20:49	1
Tetrachloroethene	ND		6.0	0.80	ug/Kg	☼	03/20/17 11:12	03/20/17 20:49	1
Trichloroethene	ND		6.0	1.3	ug/Kg	☼	03/20/17 11:12	03/20/17 20:49	1
Vinyl chloride	ND		6.0	0.73	ug/Kg	☼	03/20/17 11:12	03/20/17 20:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		64 - 126				03/20/17 11:12	03/20/17 20:49	1
4-Bromofluorobenzene (Surr)	101		72 - 126				03/20/17 11:12	03/20/17 20:49	1
Dibromofluoromethane (Surr)	102		60 - 140				03/20/17 11:12	03/20/17 20:49	1
Toluene-d8 (Surr)	104		71 - 125				03/20/17 11:12	03/20/17 20:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		2000	160	ug/Kg	☼	03/20/17 08:04	03/21/17 15:32	5
2,4-Dinitrotoluene	ND		1000	210	ug/Kg	☼	03/20/17 08:04	03/21/17 15:32	5
2,4,5-Trichlorophenol	ND		1000	280	ug/Kg	☼	03/20/17 08:04	03/21/17 15:32	5
2,4,6-Trichlorophenol	ND		1000	200	ug/Kg	☼	03/20/17 08:04	03/21/17 15:32	5
2-Methylphenol	ND		1000	120	ug/Kg	☼	03/20/17 08:04	03/21/17 15:32	5
3-Methylphenol	ND		2000	160	ug/Kg	☼	03/20/17 08:04	03/21/17 15:32	5
4-Methylphenol	ND		2000	120	ug/Kg	☼	03/20/17 08:04	03/21/17 15:32	5
Hexachlorobenzene	ND		1000	140	ug/Kg	☼	03/20/17 08:04	03/21/17 15:32	5
Hexachlorobutadiene	ND		1000	150	ug/Kg	☼	03/20/17 08:04	03/21/17 15:32	5
Hexachloroethane	ND		1000	130	ug/Kg	☼	03/20/17 08:04	03/21/17 15:32	5
Nitrobenzene	ND		1000	110	ug/Kg	☼	03/20/17 08:04	03/21/17 15:32	5
Pentachlorophenol	ND		2000	1000	ug/Kg	☼	03/20/17 08:04	03/21/17 15:32	5
Pyridine	ND		2000	140	ug/Kg	☼	03/20/17 08:04	03/21/17 15:32	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	67		54 - 120				03/20/17 08:04	03/21/17 15:32	5
2-Fluorobiphenyl	76		60 - 120				03/20/17 08:04	03/21/17 15:32	5

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

Client Sample ID: WC-15
Date Collected: 03/16/17 16:30
Date Received: 03/16/17 19:07

Lab Sample ID: 480-114703-3
Matrix: Solid
Percent Solids: 82.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	72		52 - 120	03/20/17 08:04	03/21/17 15:32	5
Nitrobenzene-d5 (Surr)	68		53 - 120	03/20/17 08:04	03/21/17 15:32	5
p-Terphenyl-d14 (Surr)	84		65 - 121	03/20/17 08:04	03/21/17 15:32	5
Phenol-d5 (Surr)	72		54 - 120	03/20/17 08:04	03/21/17 15:32	5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.041	mg/Kg	☼	03/18/17 12:52	03/20/17 15:55	1
PCB-1221	ND		0.21	0.041	mg/Kg	☼	03/18/17 12:52	03/20/17 15:55	1
PCB-1232	ND		0.21	0.041	mg/Kg	☼	03/18/17 12:52	03/20/17 15:55	1
PCB-1242	ND		0.21	0.041	mg/Kg	☼	03/18/17 12:52	03/20/17 15:55	1
PCB-1248	ND		0.21	0.041	mg/Kg	☼	03/18/17 12:52	03/20/17 15:55	1
PCB-1254	1.1		0.21	0.099	mg/Kg	☼	03/18/17 12:52	03/20/17 15:55	1
PCB-1260	1.1		0.21	0.099	mg/Kg	☼	03/18/17 12:52	03/20/17 15:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	117		60 - 154	03/18/17 12:52	03/20/17 15:55	1
DCB Decachlorobiphenyl	121		65 - 174	03/18/17 12:52	03/20/17 15:55	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.1		2.6	0.52	mg/Kg	☼	03/17/17 15:40	03/20/17 16:55	1
Barium	66.0		0.65	0.14	mg/Kg	☼	03/17/17 15:40	03/20/17 16:55	1
Cadmium	0.24	J	0.26	0.039	mg/Kg	☼	03/17/17 15:40	03/20/17 16:55	1
Chromium	16.3		0.65	0.26	mg/Kg	☼	03/17/17 15:40	03/20/17 16:55	1
Lead	25.9		1.3	0.31	mg/Kg	☼	03/17/17 15:40	03/20/17 16:55	1
Selenium	0.90	J	5.2	0.52	mg/Kg	☼	03/17/17 15:40	03/20/17 16:55	1
Silver	ND		0.78	0.26	mg/Kg	☼	03/17/17 15:40	03/20/17 16:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.064		0.023	0.0094	mg/Kg	☼	03/20/17 09:15	03/20/17 13:22	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	Passed				mL/100g			03/17/17 16:15	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176.0		50.0	50.0	Degrees F			03/22/17 16:41	1
Cyanide, Reactive	ND		10	10	mg/Kg		03/20/17 01:05	03/21/17 04:05	1
Sulfide, Reactive	ND		10	10	mg/Kg		03/20/17 01:05	03/20/17 23:25	1
pH	7.8	HF	0.1	0.1	SU			03/17/17 17:11	1
Temperature	22.0	HF	0.001	0.001	Degrees C			03/17/17 17:11	1

Client Sample ID: WC-16
Date Collected: 03/16/17 16:45
Date Received: 03/16/17 19:07

Lab Sample ID: 480-114703-4
Matrix: Solid
Percent Solids: 81.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		5.9	0.73	ug/Kg	☼	03/20/17 11:12	03/20/17 21:15	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

Client Sample ID: WC-16
Date Collected: 03/16/17 16:45
Date Received: 03/16/17 19:07

Lab Sample ID: 480-114703-4
Matrix: Solid
Percent Solids: 81.6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		5.9	0.30	ug/Kg	☼	03/20/17 11:12	03/20/17 21:15	1
2-Butanone (MEK)	ND		30	2.2	ug/Kg	☼	03/20/17 11:12	03/20/17 21:15	1
Benzene	ND		5.9	0.29	ug/Kg	☼	03/20/17 11:12	03/20/17 21:15	1
Carbon tetrachloride	ND		5.9	0.57	ug/Kg	☼	03/20/17 11:12	03/20/17 21:15	1
Chlorobenzene	ND		5.9	0.78	ug/Kg	☼	03/20/17 11:12	03/20/17 21:15	1
Chloroform	ND		5.9	0.37	ug/Kg	☼	03/20/17 11:12	03/20/17 21:15	1
Tetrachloroethene	ND		5.9	0.79	ug/Kg	☼	03/20/17 11:12	03/20/17 21:15	1
Trichloroethene	ND		5.9	1.3	ug/Kg	☼	03/20/17 11:12	03/20/17 21:15	1
Vinyl chloride	ND		5.9	0.72	ug/Kg	☼	03/20/17 11:12	03/20/17 21:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 126				03/20/17 11:12	03/20/17 21:15	1
4-Bromofluorobenzene (Surr)	104		72 - 126				03/20/17 11:12	03/20/17 21:15	1
Dibromofluoromethane (Surr)	104		60 - 140				03/20/17 11:12	03/20/17 21:15	1
Toluene-d8 (Surr)	102		71 - 125				03/20/17 11:12	03/20/17 21:15	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		400	32	ug/Kg	☼	03/20/17 08:04	03/21/17 16:00	1
2,4-Dinitrotoluene	ND		210	43	ug/Kg	☼	03/20/17 08:04	03/21/17 16:00	1
2,4,5-Trichlorophenol	ND		210	56	ug/Kg	☼	03/20/17 08:04	03/21/17 16:00	1
2,4,6-Trichlorophenol	ND		210	42	ug/Kg	☼	03/20/17 08:04	03/21/17 16:00	1
2-Methylphenol	ND		210	24	ug/Kg	☼	03/20/17 08:04	03/21/17 16:00	1
3-Methylphenol	ND		400	32	ug/Kg	☼	03/20/17 08:04	03/21/17 16:00	1
4-Methylphenol	ND		400	24	ug/Kg	☼	03/20/17 08:04	03/21/17 16:00	1
Hexachlorobenzene	ND		210	28	ug/Kg	☼	03/20/17 08:04	03/21/17 16:00	1
Hexachlorobutadiene	ND		210	31	ug/Kg	☼	03/20/17 08:04	03/21/17 16:00	1
Hexachloroethane	ND		210	27	ug/Kg	☼	03/20/17 08:04	03/21/17 16:00	1
Nitrobenzene	ND		210	23	ug/Kg	☼	03/20/17 08:04	03/21/17 16:00	1
Pentachlorophenol	ND		400	210	ug/Kg	☼	03/20/17 08:04	03/21/17 16:00	1
Pyridine	ND		400	29	ug/Kg	☼	03/20/17 08:04	03/21/17 16:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		54 - 120				03/20/17 08:04	03/21/17 16:00	1
2-Fluorobiphenyl	87		60 - 120				03/20/17 08:04	03/21/17 16:00	1
2-Fluorophenol (Surr)	74		52 - 120				03/20/17 08:04	03/21/17 16:00	1
Nitrobenzene-d5 (Surr)	78		53 - 120				03/20/17 08:04	03/21/17 16:00	1
p-Terphenyl-d14 (Surr)	88		65 - 121				03/20/17 08:04	03/21/17 16:00	1
Phenol-d5 (Surr)	74		54 - 120				03/20/17 08:04	03/21/17 16:00	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.044	mg/Kg	☼	03/18/17 12:52	03/20/17 15:39	1
PCB-1221	ND		0.23	0.044	mg/Kg	☼	03/18/17 12:52	03/20/17 15:39	1
PCB-1232	ND		0.23	0.044	mg/Kg	☼	03/18/17 12:52	03/20/17 15:39	1
PCB-1242	ND		0.23	0.044	mg/Kg	☼	03/18/17 12:52	03/20/17 15:39	1
PCB-1248	ND		0.23	0.044	mg/Kg	☼	03/18/17 12:52	03/20/17 15:39	1
PCB-1254	1.5		0.23	0.11	mg/Kg	☼	03/18/17 12:52	03/20/17 15:39	1
PCB-1260	1.5		0.23	0.11	mg/Kg	☼	03/18/17 12:52	03/20/17 15:39	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

Client Sample ID: WC-16
Date Collected: 03/16/17 16:45
Date Received: 03/16/17 19:07

Lab Sample ID: 480-114703-4
Matrix: Solid
Percent Solids: 81.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	105		60 - 154	03/18/17 12:52	03/20/17 15:39	1
DCB Decachlorobiphenyl	107		65 - 174	03/18/17 12:52	03/20/17 15:39	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.9		2.5	0.49	mg/Kg	☼	03/17/17 15:40	03/20/17 16:59	1
Barium	97.7		0.61	0.14	mg/Kg	☼	03/17/17 15:40	03/20/17 16:59	1
Cadmium	0.39		0.25	0.037	mg/Kg	☼	03/17/17 15:40	03/20/17 16:59	1
Chromium	14.5		0.61	0.25	mg/Kg	☼	03/17/17 15:40	03/20/17 16:59	1
Lead	76.6		1.2	0.29	mg/Kg	☼	03/17/17 15:40	03/20/17 16:59	1
Selenium	0.68	J	4.9	0.49	mg/Kg	☼	03/17/17 15:40	03/20/17 16:59	1
Silver	ND		0.74	0.25	mg/Kg	☼	03/17/17 15:40	03/20/17 16:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.025	0.0099	mg/Kg	☼	03/20/17 09:15	03/20/17 13:23	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	Passed				mL/100g			03/17/17 16:15	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176.0		50.0	50.0	Degrees F			03/22/17 16:41	1
Cyanide, Reactive	ND		10	10	mg/Kg		03/20/17 01:05	03/21/17 04:05	1
Sulfide, Reactive	ND		10	10	mg/Kg		03/20/17 01:05	03/20/17 23:25	1
pH	7.7	HF	0.1	0.1	SU			03/17/17 17:11	1
Temperature	22.5	HF	0.001	0.001	Degrees C			03/17/17 17:11	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (64-126)	BFB (72-126)	DBFM (60-140)	TOL (71-125)
480-114703-1	WC-13	101	105	101	105
480-114703-1 MS	WC-13	93	102	102	104
480-114703-1 MSD	WC-13	95	103	104	102
480-114703-2	WC-14	102	107	103	103
480-114703-3	WC-15	102	101	102	104
480-114703-4	WC-16	106	104	104	102
LCS 480-348084/1-A	Lab Control Sample	105	101	106	104
MB 480-348084/2-A	Method Blank	104	98	103	102

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (54-120)	FBP (60-120)	2FP (52-120)	NBZ (53-120)	TPH (65-121)	PHL (54-120)
480-114703-1	WC-13	95	89	79	78	107	81
480-114703-2	WC-14	91	84	72	77	101	75
480-114703-3	WC-15	67	76	72	68	84	72
480-114703-4	WC-16	85	87	74	78	88	74
LCS 480-348014/2-A	Lab Control Sample	97	85	71	74	100	76
MB 480-348014/1-A	Method Blank	87	89	80	82	113	81

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPH = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (60-154)	DCB1 (65-174)
480-114703-1	WC-13	120	124
480-114703-2	WC-14	123	129
480-114703-3	WC-15	117	121
480-114703-4	WC-16	105	107
LCS 480-347954/2-A	Lab Control Sample	136	129
MB 480-347954/1-A	Method Blank	118	125

Surrogate Legend

TestAmerica Buffalo

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

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QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-348084/2-A

Matrix: Solid

Analysis Batch: 348094

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 348084

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		4.9	0.60	ug/Kg		03/20/17 11:12	03/20/17 14:18	1
1,2-Dichloroethane	ND		4.9	0.25	ug/Kg		03/20/17 11:12	03/20/17 14:18	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		03/20/17 11:12	03/20/17 14:18	1
Benzene	ND		4.9	0.24	ug/Kg		03/20/17 11:12	03/20/17 14:18	1
Carbon tetrachloride	ND		4.9	0.48	ug/Kg		03/20/17 11:12	03/20/17 14:18	1
Chlorobenzene	ND		4.9	0.65	ug/Kg		03/20/17 11:12	03/20/17 14:18	1
Chloroform	ND		4.9	0.30	ug/Kg		03/20/17 11:12	03/20/17 14:18	1
Tetrachloroethene	ND		4.9	0.66	ug/Kg		03/20/17 11:12	03/20/17 14:18	1
Trichloroethene	ND		4.9	1.1	ug/Kg		03/20/17 11:12	03/20/17 14:18	1
Vinyl chloride	ND		4.9	0.60	ug/Kg		03/20/17 11:12	03/20/17 14:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 126	03/20/17 11:12	03/20/17 14:18	1
4-Bromofluorobenzene (Surr)	98		72 - 126	03/20/17 11:12	03/20/17 14:18	1
Dibromofluoromethane (Surr)	103		60 - 140	03/20/17 11:12	03/20/17 14:18	1
Toluene-d8 (Surr)	102		71 - 125	03/20/17 11:12	03/20/17 14:18	1

Lab Sample ID: LCS 480-348084/1-A

Matrix: Solid

Analysis Batch: 348094

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 348084

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	48.3	48.1		ug/Kg		100	59 - 125
1,2-Dichloroethane	48.3	45.0		ug/Kg		93	77 - 122
2-Butanone (MEK)	241	257		ug/Kg		107	70 - 134
Benzene	48.3	47.4		ug/Kg		98	79 - 127
Carbon tetrachloride	48.3	44.3		ug/Kg		92	75 - 135
Chlorobenzene	48.3	46.6		ug/Kg		97	76 - 124
Chloroform	48.3	47.2		ug/Kg		98	80 - 120
Tetrachloroethene	48.3	45.7		ug/Kg		95	74 - 122
Trichloroethene	48.3	46.1		ug/Kg		96	77 - 129
Vinyl chloride	48.3	52.0		ug/Kg		108	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		64 - 126
4-Bromofluorobenzene (Surr)	101		72 - 126
Dibromofluoromethane (Surr)	106		60 - 140
Toluene-d8 (Surr)	104		71 - 125

Lab Sample ID: 480-114703-1 MS

Matrix: Solid

Analysis Batch: 348094

Client Sample ID: WC-13

Prep Type: Total/NA

Prep Batch: 348084

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	ND		60.5	52.0		ug/Kg	☼	86	59 - 125
1,2-Dichloroethane	ND		60.5	49.9		ug/Kg	☼	82	77 - 122
2-Butanone (MEK)	ND	F1	302	177	F1	ug/Kg	☼	59	70 - 134

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-114703-1 MS

Matrix: Solid

Analysis Batch: 348094

Client Sample ID: WC-13

Prep Type: Total/NA

Prep Batch: 348084

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Benzene	ND		60.5	54.4		ug/Kg	☼	90	79 - 127
Carbon tetrachloride	ND		60.5	47.4		ug/Kg	☼	78	75 - 135
Chlorobenzene	ND		60.5	52.3		ug/Kg	☼	86	76 - 124
Chloroform	ND		60.5	55.3		ug/Kg	☼	91	80 - 120
Tetrachloroethene	ND		60.5	52.4		ug/Kg	☼	87	74 - 122
Trichloroethene	ND		60.5	52.7		ug/Kg	☼	87	77 - 129
Vinyl chloride	ND		60.5	52.8		ug/Kg	☼	87	61 - 133
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	93		64 - 126						
4-Bromofluorobenzene (Surr)	102		72 - 126						
Dibromofluoromethane (Surr)	102		60 - 140						
Toluene-d8 (Surr)	104		71 - 125						

Lab Sample ID: 480-114703-1 MSD

Matrix: Solid

Analysis Batch: 348094

Client Sample ID: WC-13

Prep Type: Total/NA

Prep Batch: 348084

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1-Dichloroethene	ND		59.5	51.0		ug/Kg	☼	86	59 - 125	2	30
1,2-Dichloroethane	ND		59.5	49.4		ug/Kg	☼	83	77 - 122	1	30
2-Butanone (MEK)	ND	F1	298	191	F1	ug/Kg	☼	64	70 - 134	7	30
Benzene	ND		59.5	53.5		ug/Kg	☼	90	79 - 127	2	30
Carbon tetrachloride	ND		59.5	48.4		ug/Kg	☼	81	75 - 135	2	30
Chlorobenzene	ND		59.5	51.1		ug/Kg	☼	86	76 - 124	2	30
Chloroform	ND		59.5	54.2		ug/Kg	☼	91	80 - 120	2	30
Tetrachloroethene	ND		59.5	50.5		ug/Kg	☼	85	74 - 122	4	30
Trichloroethene	ND		59.5	52.1		ug/Kg	☼	88	77 - 129	1	30
Vinyl chloride	ND		59.5	51.1		ug/Kg	☼	86	61 - 133	3	30
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	95		64 - 126								
4-Bromofluorobenzene (Surr)	103		72 - 126								
Dibromofluoromethane (Surr)	104		60 - 140								
Toluene-d8 (Surr)	102		71 - 125								

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-348014/1-A

Matrix: Solid

Analysis Batch: 348278

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 348014

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dichlorobenzene	ND		330	26	ug/Kg		03/20/17 08:04	03/21/17 13:47	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		03/20/17 08:04	03/21/17 13:47	1
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		03/20/17 08:04	03/21/17 13:47	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		03/20/17 08:04	03/21/17 13:47	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-348014/1-A
Matrix: Solid
Analysis Batch: 348278

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 348014

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	ND		170	20	ug/Kg		03/20/17 08:04	03/21/17 13:47	1
3-Methylphenol	ND		330	26	ug/Kg		03/20/17 08:04	03/21/17 13:47	1
4-Methylphenol	ND		330	20	ug/Kg		03/20/17 08:04	03/21/17 13:47	1
Hexachlorobenzene	ND		170	23	ug/Kg		03/20/17 08:04	03/21/17 13:47	1
Hexachlorobutadiene	ND		170	25	ug/Kg		03/20/17 08:04	03/21/17 13:47	1
Hexachloroethane	ND		170	22	ug/Kg		03/20/17 08:04	03/21/17 13:47	1
Nitrobenzene	ND		170	19	ug/Kg		03/20/17 08:04	03/21/17 13:47	1
Pentachlorophenol	ND		330	170	ug/Kg		03/20/17 08:04	03/21/17 13:47	1
Pyridine	ND		330	24	ug/Kg		03/20/17 08:04	03/21/17 13:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		54 - 120	03/20/17 08:04	03/21/17 13:47	1
2-Fluorobiphenyl	89		60 - 120	03/20/17 08:04	03/21/17 13:47	1
2-Fluorophenol (Surr)	80		52 - 120	03/20/17 08:04	03/21/17 13:47	1
Nitrobenzene-d5 (Surr)	82		53 - 120	03/20/17 08:04	03/21/17 13:47	1
p-Terphenyl-d14 (Surr)	113		65 - 121	03/20/17 08:04	03/21/17 13:47	1
Phenol-d5 (Surr)	81		54 - 120	03/20/17 08:04	03/21/17 13:47	1

Lab Sample ID: LCS 480-348014/2-A
Matrix: Solid
Analysis Batch: 348278

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 348014

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,4-Dichlorobenzene	1620	1110		ug/Kg		69	48 - 120
2,4-Dinitrotoluene	1620	1540		ug/Kg		95	63 - 120
2,4,5-Trichlorophenol	1620	1540		ug/Kg		95	59 - 126
2,4,6-Trichlorophenol	1620	1530		ug/Kg		95	59 - 123
2-Methylphenol	1620	1290		ug/Kg		80	54 - 120
3-Methylphenol	1620	1300		ug/Kg		80	55 - 120
4-Methylphenol	1620	1300		ug/Kg		80	55 - 120
Hexachlorobenzene	1620	1620		ug/Kg		100	60 - 120
Hexachlorobutadiene	1620	1270		ug/Kg		78	45 - 120
Hexachloroethane	1620	1080		ug/Kg		67	41 - 120
Nitrobenzene	1620	1260		ug/Kg		78	54 - 120
Pentachlorophenol	3240	3160		ug/Kg		97	51 - 120
Pyridine	1620	900		ug/Kg		56	23 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	97		54 - 120
2-Fluorobiphenyl	85		60 - 120
2-Fluorophenol (Surr)	71		52 - 120
Nitrobenzene-d5 (Surr)	74		53 - 120
p-Terphenyl-d14 (Surr)	100		65 - 121
Phenol-d5 (Surr)	76		54 - 120

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-347954/1-A
Matrix: Solid
Analysis Batch: 348099

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 347954

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.042	mg/Kg		03/18/17 12:52	03/20/17 13:32	1
PCB-1221	ND		0.21	0.042	mg/Kg		03/18/17 12:52	03/20/17 13:32	1
PCB-1232	ND		0.21	0.042	mg/Kg		03/18/17 12:52	03/20/17 13:32	1
PCB-1242	ND		0.21	0.042	mg/Kg		03/18/17 12:52	03/20/17 13:32	1
PCB-1248	ND		0.21	0.042	mg/Kg		03/18/17 12:52	03/20/17 13:32	1
PCB-1254	ND		0.21	0.10	mg/Kg		03/18/17 12:52	03/20/17 13:32	1
PCB-1260	ND		0.21	0.10	mg/Kg		03/18/17 12:52	03/20/17 13:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	118		60 - 154	03/18/17 12:52	03/20/17 13:32	1
DCB Decachlorobiphenyl	125		65 - 174	03/18/17 12:52	03/20/17 13:32	1

Lab Sample ID: LCS 480-347954/2-A
Matrix: Solid
Analysis Batch: 348099

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 347954

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	2.13	3.13		mg/Kg		147	51 - 185
PCB-1260	2.13	2.59		mg/Kg		122	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	136		60 - 154
DCB Decachlorobiphenyl	129		65 - 174

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-347894/1-A
Matrix: Solid
Analysis Batch: 348171

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 347894

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.2	0.44	mg/Kg		03/17/17 15:40	03/20/17 15:34	1
Barium	ND		0.55	0.12	mg/Kg		03/17/17 15:40	03/20/17 15:34	1
Cadmium	ND		0.22	0.033	mg/Kg		03/17/17 15:40	03/20/17 15:34	1
Chromium	ND		0.55	0.22	mg/Kg		03/17/17 15:40	03/20/17 15:34	1
Lead	ND		1.1	0.26	mg/Kg		03/17/17 15:40	03/20/17 15:34	1
Selenium	ND		4.4	0.44	mg/Kg		03/17/17 15:40	03/20/17 15:34	1
Silver	ND		0.66	0.22	mg/Kg		03/17/17 15:40	03/20/17 15:34	1

Lab Sample ID: LCDSRM 480-347894/3-A
Matrix: Solid
Analysis Batch: 348171

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 347894

Analyte	Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	145	135.5		mg/Kg		93.5	70.3 - 136.6	2	20
Barium	209	187.9		mg/Kg		89.9	73.7 - 126.8	5	20

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCDSRM 480-347894/3-A
Matrix: Solid
Analysis Batch: 348171

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 347894

Analyte	Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	87.6	83.95		mg/Kg		95.8	73.3 - 126.7	0	20
Chromium	143	134.8		mg/Kg		94.3	69.9 - 129.4	4	20
Lead	146	157.8		mg/Kg		108.1	73.3 - 126.7	5	20
Selenium	178	165.2		mg/Kg		92.8	68.0 - 131.5	2	20
Silver	31.3	28.23		mg/Kg		90.2	65.2 - 134.5	3	20

Lab Sample ID: LCSSRM 480-347894/2-A
Matrix: Solid
Analysis Batch: 348171

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 347894

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	145	138.7		mg/Kg		95.7	70.3 - 136.6		
Barium	209	197.3		mg/Kg		94.4	73.7 - 126.8		
Cadmium	87.6	84.12		mg/Kg		96.0	73.3 - 126.7		
Chromium	143	139.8		mg/Kg		97.8	69.9 - 129.4		
Lead	146	165.3		mg/Kg		113.2	73.3 - 126.7		
Selenium	178	167.9		mg/Kg		94.3	68.0 - 131.5		
Silver	31.3	29.08		mg/Kg		92.9	65.2 - 134.5		

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-348020/1-A
Matrix: Solid
Analysis Batch: 348120

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 348020

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.018	0.0074	mg/Kg		03/20/17 09:15	03/20/17 12:53	1

Lab Sample ID: LCDSRM 480-348020/3-A ^10
Matrix: Solid
Analysis Batch: 348120

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 348020

Analyte	Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	12.6	13.30		mg/Kg		105.6	44.4 - 128.6	8	20

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCSSRM 480-348020/2-A ^10
Matrix: Solid
Analysis Batch: 348120

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 348020

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	Limits
Mercury	12.6	12.27		mg/Kg		97.4	44.4 - 128.6

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-348508/1
Matrix: Solid
Analysis Batch: 348508

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Flashpoint	81.0	83.00		Degrees F		102	97.5 - 102.5

Lab Sample ID: 480-114703-1 DU
Matrix: Solid
Analysis Batch: 348508

Client Sample ID: WC-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Flashpoint	>176.0		>176.0		Degrees F		NC	10

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-348090/1-A
Matrix: Solid
Analysis Batch: 348225

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 348090

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10.0	10.0	mg/Kg		03/20/17 01:05	03/21/17 04:05	1

Lab Sample ID: LCS 480-348090/2-A
Matrix: Solid
Analysis Batch: 348225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 348090

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Reactive	1000	485.0		mg/Kg		49	10 - 100

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-348083/1-A
Matrix: Solid
Analysis Batch: 348221

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 348083

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		10.0	10.0	mg/Kg		03/20/17 01:05	03/20/17 23:25	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

Method: 9034 - Sulfide, Reactive (Continued)

Lab Sample ID: LCS 480-348083/2-A
Matrix: Solid
Analysis Batch: 348221

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 348083

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide, Reactive	820	721.4		mg/Kg		88	10 - 100

Method: 9045D - pH

Lab Sample ID: LCS 480-347939/1
Matrix: Solid
Analysis Batch: 347939

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

Method: 9095B - Paint Filter

Lab Sample ID: 480-114703-4 DU
Matrix: Solid
Analysis Batch: 347940

Client Sample ID: WC-16
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Free Liquid	Passed		Passed		mL/100g		NC	

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

GC/MS VOA

Prep Batch: 348084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114703-1	WC-13	Total/NA	Solid	5035A_L	
480-114703-2	WC-14	Total/NA	Solid	5035A_L	
480-114703-3	WC-15	Total/NA	Solid	5035A_L	
480-114703-4	WC-16	Total/NA	Solid	5035A_L	
MB 480-348084/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-348084/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-114703-1 MS	WC-13	Total/NA	Solid	5035A_L	
480-114703-1 MSD	WC-13	Total/NA	Solid	5035A_L	

Analysis Batch: 348094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114703-1	WC-13	Total/NA	Solid	8260C	348084
480-114703-2	WC-14	Total/NA	Solid	8260C	348084
480-114703-3	WC-15	Total/NA	Solid	8260C	348084
480-114703-4	WC-16	Total/NA	Solid	8260C	348084
MB 480-348084/2-A	Method Blank	Total/NA	Solid	8260C	348084
LCS 480-348084/1-A	Lab Control Sample	Total/NA	Solid	8260C	348084
480-114703-1 MS	WC-13	Total/NA	Solid	8260C	348084
480-114703-1 MSD	WC-13	Total/NA	Solid	8260C	348084

GC/MS Semi VOA

Prep Batch: 348014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114703-1	WC-13	Total/NA	Solid	3550C	
480-114703-2	WC-14	Total/NA	Solid	3550C	
480-114703-3	WC-15	Total/NA	Solid	3550C	
480-114703-4	WC-16	Total/NA	Solid	3550C	
MB 480-348014/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-348014/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 348278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114703-1	WC-13	Total/NA	Solid	8270D	348014
480-114703-2	WC-14	Total/NA	Solid	8270D	348014
480-114703-3	WC-15	Total/NA	Solid	8270D	348014
480-114703-4	WC-16	Total/NA	Solid	8270D	348014
MB 480-348014/1-A	Method Blank	Total/NA	Solid	8270D	348014
LCS 480-348014/2-A	Lab Control Sample	Total/NA	Solid	8270D	348014

GC Semi VOA

Prep Batch: 347954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114703-1	WC-13	Total/NA	Solid	3550C	
480-114703-2	WC-14	Total/NA	Solid	3550C	
480-114703-3	WC-15	Total/NA	Solid	3550C	
480-114703-4	WC-16	Total/NA	Solid	3550C	
MB 480-347954/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-347954/2-A	Lab Control Sample	Total/NA	Solid	3550C	

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
 Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

GC Semi VOA (Continued)

Analysis Batch: 348099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114703-1	WC-13	Total/NA	Solid	8082A	347954
480-114703-2	WC-14	Total/NA	Solid	8082A	347954
480-114703-3	WC-15	Total/NA	Solid	8082A	347954
480-114703-4	WC-16	Total/NA	Solid	8082A	347954
MB 480-347954/1-A	Method Blank	Total/NA	Solid	8082A	347954
LCS 480-347954/2-A	Lab Control Sample	Total/NA	Solid	8082A	347954

Metals

Prep Batch: 347894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114703-1	WC-13	Total/NA	Solid	3050B	
480-114703-2	WC-14	Total/NA	Solid	3050B	
480-114703-3	WC-15	Total/NA	Solid	3050B	
480-114703-4	WC-16	Total/NA	Solid	3050B	
MB 480-347894/1-A	Method Blank	Total/NA	Solid	3050B	
LCDSRM 480-347894/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 480-347894/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 348020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114703-1	WC-13	Total/NA	Solid	7471B	
480-114703-2	WC-14	Total/NA	Solid	7471B	
480-114703-3	WC-15	Total/NA	Solid	7471B	
480-114703-4	WC-16	Total/NA	Solid	7471B	
MB 480-348020/1-A	Method Blank	Total/NA	Solid	7471B	
LCDSRM 480-348020/3-A ^1	Lab Control Sample Dup	Total/NA	Solid	7471B	
LCSSRM 480-348020/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 348120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114703-1	WC-13	Total/NA	Solid	7471B	348020
480-114703-2	WC-14	Total/NA	Solid	7471B	348020
480-114703-3	WC-15	Total/NA	Solid	7471B	348020
480-114703-4	WC-16	Total/NA	Solid	7471B	348020
MB 480-348020/1-A	Method Blank	Total/NA	Solid	7471B	348020
LCDSRM 480-348020/3-A ^1	Lab Control Sample Dup	Total/NA	Solid	7471B	348020
LCSSRM 480-348020/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	348020

Analysis Batch: 348171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114703-1	WC-13	Total/NA	Solid	6010C	347894
480-114703-2	WC-14	Total/NA	Solid	6010C	347894
480-114703-3	WC-15	Total/NA	Solid	6010C	347894
480-114703-4	WC-16	Total/NA	Solid	6010C	347894
MB 480-347894/1-A	Method Blank	Total/NA	Solid	6010C	347894
LCDSRM 480-347894/3-A	Lab Control Sample Dup	Total/NA	Solid	6010C	347894
LCSSRM 480-347894/2-A	Lab Control Sample	Total/NA	Solid	6010C	347894

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

General Chemistry

Analysis Batch: 347794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114703-1	WC-13	Total/NA	Solid	Moisture	
480-114703-2	WC-14	Total/NA	Solid	Moisture	
480-114703-3	WC-15	Total/NA	Solid	Moisture	
480-114703-4	WC-16	Total/NA	Solid	Moisture	

Analysis Batch: 347939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114703-1	WC-13	Total/NA	Solid	9045D	
480-114703-2	WC-14	Total/NA	Solid	9045D	
480-114703-3	WC-15	Total/NA	Solid	9045D	
480-114703-4	WC-16	Total/NA	Solid	9045D	
LCS 480-347939/1	Lab Control Sample	Total/NA	Solid	9045D	

Analysis Batch: 347940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114703-1	WC-13	Total/NA	Solid	9095B	
480-114703-2	WC-14	Total/NA	Solid	9095B	
480-114703-3	WC-15	Total/NA	Solid	9095B	
480-114703-4	WC-16	Total/NA	Solid	9095B	
480-114703-4 DU	WC-16	Total/NA	Solid	9095B	

Prep Batch: 348083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114703-1	WC-13	Total/NA	Solid	7.3.4	
480-114703-2	WC-14	Total/NA	Solid	7.3.4	
480-114703-3	WC-15	Total/NA	Solid	7.3.4	
480-114703-4	WC-16	Total/NA	Solid	7.3.4	
MB 480-348083/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 480-348083/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	

Prep Batch: 348090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114703-1	WC-13	Total/NA	Solid	7.3.3	
480-114703-2	WC-14	Total/NA	Solid	7.3.3	
480-114703-3	WC-15	Total/NA	Solid	7.3.3	
480-114703-4	WC-16	Total/NA	Solid	7.3.3	
MB 480-348090/1-A	Method Blank	Total/NA	Solid	7.3.3	
LCS 480-348090/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	

Analysis Batch: 348221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114703-1	WC-13	Total/NA	Solid	9034	348083
480-114703-2	WC-14	Total/NA	Solid	9034	348083
480-114703-3	WC-15	Total/NA	Solid	9034	348083
480-114703-4	WC-16	Total/NA	Solid	9034	348083
MB 480-348083/1-A	Method Blank	Total/NA	Solid	9034	348083
LCS 480-348083/2-A	Lab Control Sample	Total/NA	Solid	9034	348083

Analysis Batch: 348225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114703-1	WC-13	Total/NA	Solid	9012	348090

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

General Chemistry (Continued)

Analysis Batch: 348225 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114703-2	WC-14	Total/NA	Solid	9012	348090
480-114703-3	WC-15	Total/NA	Solid	9012	348090
480-114703-4	WC-16	Total/NA	Solid	9012	348090
MB 480-348090/1-A	Method Blank	Total/NA	Solid	9012	348090
LCS 480-348090/2-A	Lab Control Sample	Total/NA	Solid	9012	348090

Analysis Batch: 348508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114703-1	WC-13	Total/NA	Solid	1010A	
480-114703-2	WC-14	Total/NA	Solid	1010A	
480-114703-3	WC-15	Total/NA	Solid	1010A	
480-114703-4	WC-16	Total/NA	Solid	1010A	
LCS 480-348508/1	Lab Control Sample	Total/NA	Solid	1010A	
480-114703-1 DU	WC-13	Total/NA	Solid	1010A	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

Client Sample ID: WC-13

Date Collected: 03/16/17 16:00

Date Received: 03/16/17 19:07

Lab Sample ID: 480-114703-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1010A		1	348508	03/22/17 16:41	JCL	TAL BUF
Total/NA	Prep	7.3.3			348090	03/20/17 01:05	LAW	TAL BUF
Total/NA	Analysis	9012		1	348225	03/21/17 04:05	LAW	TAL BUF
Total/NA	Prep	7.3.4			348083	03/20/17 01:05	LAW	TAL BUF
Total/NA	Analysis	9034		1	348221	03/20/17 23:25	LAW	TAL BUF
Total/NA	Analysis	9045D		1	347939	03/17/17 17:11	DSC	TAL BUF
Total/NA	Analysis	9095B		1	347940	03/17/17 16:15	DSC	TAL BUF
Total/NA	Analysis	Moisture		1	347794	03/17/17 02:12	CSW	TAL BUF

Client Sample ID: WC-13

Date Collected: 03/16/17 16:00

Date Received: 03/16/17 19:07

Lab Sample ID: 480-114703-1

Matrix: Solid

Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			348084	03/20/17 11:12	JAS	TAL BUF
Total/NA	Analysis	8260C		1	348094	03/20/17 19:58	CDC	TAL BUF
Total/NA	Prep	3550C			348014	03/20/17 08:04	MAS	TAL BUF
Total/NA	Analysis	8270D		1	348278	03/21/17 14:39	MKP	TAL BUF
Total/NA	Prep	3550C			347954	03/18/17 12:52	EG	TAL BUF
Total/NA	Analysis	8082A		1	348099	03/20/17 16:27	JMO	TAL BUF
Total/NA	Prep	3050B			347894	03/17/17 15:40	MVZ	TAL BUF
Total/NA	Analysis	6010C		1	348171	03/20/17 16:48	SLB	TAL BUF
Total/NA	Prep	7471B			348020	03/20/17 09:15	JRK	TAL BUF
Total/NA	Analysis	7471B		1	348120	03/20/17 13:19	JRK	TAL BUF

Client Sample ID: WC-14

Date Collected: 03/16/17 16:15

Date Received: 03/16/17 19:07

Lab Sample ID: 480-114703-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1010A		1	348508	03/22/17 16:41	JCL	TAL BUF
Total/NA	Prep	7.3.3			348090	03/20/17 01:05	LAW	TAL BUF
Total/NA	Analysis	9012		1	348225	03/21/17 04:05	LAW	TAL BUF
Total/NA	Prep	7.3.4			348083	03/20/17 01:05	LAW	TAL BUF
Total/NA	Analysis	9034		1	348221	03/20/17 23:25	LAW	TAL BUF
Total/NA	Analysis	9045D		1	347939	03/17/17 17:11	DSC	TAL BUF
Total/NA	Analysis	9095B		1	347940	03/17/17 16:15	DSC	TAL BUF
Total/NA	Analysis	Moisture		1	347794	03/17/17 02:12	CSW	TAL BUF

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

Client Sample ID: WC-14

Lab Sample ID: 480-114703-2

Date Collected: 03/16/17 16:15

Matrix: Solid

Date Received: 03/16/17 19:07

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			348084	03/20/17 11:12	JAS	TAL BUF
Total/NA	Analysis	8260C		1	348094	03/20/17 20:24	CDC	TAL BUF
Total/NA	Prep	3550C			348014	03/20/17 08:04	MAS	TAL BUF
Total/NA	Analysis	8270D		1	348278	03/21/17 15:05	MKP	TAL BUF
Total/NA	Prep	3550C			347954	03/18/17 12:52	EG	TAL BUF
Total/NA	Analysis	8082A		1	348099	03/20/17 16:11	JMO	TAL BUF
Total/NA	Prep	3050B			347894	03/17/17 15:40	MVZ	TAL BUF
Total/NA	Analysis	6010C		1	348171	03/20/17 16:52	SLB	TAL BUF
Total/NA	Prep	7471B			348020	03/20/17 09:15	JRK	TAL BUF
Total/NA	Analysis	7471B		1	348120	03/20/17 13:20	JRK	TAL BUF

Client Sample ID: WC-15

Lab Sample ID: 480-114703-3

Date Collected: 03/16/17 16:30

Matrix: Solid

Date Received: 03/16/17 19:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1010A		1	348508	03/22/17 16:41	JCL	TAL BUF
Total/NA	Prep	7.3.3			348090	03/20/17 01:05	LAW	TAL BUF
Total/NA	Analysis	9012		1	348225	03/21/17 04:05	LAW	TAL BUF
Total/NA	Prep	7.3.4			348083	03/20/17 01:05	LAW	TAL BUF
Total/NA	Analysis	9034		1	348221	03/20/17 23:25	LAW	TAL BUF
Total/NA	Analysis	9045D		1	347939	03/17/17 17:11	DSC	TAL BUF
Total/NA	Analysis	9095B		1	347940	03/17/17 16:15	DSC	TAL BUF
Total/NA	Analysis	Moisture		1	347794	03/17/17 02:12	CSW	TAL BUF

Client Sample ID: WC-15

Lab Sample ID: 480-114703-3

Date Collected: 03/16/17 16:30

Matrix: Solid

Date Received: 03/16/17 19:07

Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			348084	03/20/17 11:12	JAS	TAL BUF
Total/NA	Analysis	8260C		1	348094	03/20/17 20:49	CDC	TAL BUF
Total/NA	Prep	3550C			348014	03/20/17 08:04	MAS	TAL BUF
Total/NA	Analysis	8270D		5	348278	03/21/17 15:32	MKP	TAL BUF
Total/NA	Prep	3550C			347954	03/18/17 12:52	EG	TAL BUF
Total/NA	Analysis	8082A		1	348099	03/20/17 15:55	JMO	TAL BUF
Total/NA	Prep	3050B			347894	03/17/17 15:40	MVZ	TAL BUF
Total/NA	Analysis	6010C		1	348171	03/20/17 16:55	SLB	TAL BUF
Total/NA	Prep	7471B			348020	03/20/17 09:15	JRK	TAL BUF
Total/NA	Analysis	7471B		1	348120	03/20/17 13:22	JRK	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

Client Sample ID: WC-16

Date Collected: 03/16/17 16:45

Date Received: 03/16/17 19:07

Lab Sample ID: 480-114703-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1010A		1	348508	03/22/17 16:41	JCL	TAL BUF
Total/NA	Prep	7.3.3			348090	03/20/17 01:05	LAW	TAL BUF
Total/NA	Analysis	9012		1	348225	03/21/17 04:05	LAW	TAL BUF
Total/NA	Prep	7.3.4			348083	03/20/17 01:05	LAW	TAL BUF
Total/NA	Analysis	9034		1	348221	03/20/17 23:25	LAW	TAL BUF
Total/NA	Analysis	9045D		1	347939	03/17/17 17:11	DSC	TAL BUF
Total/NA	Analysis	9095B		1	347940	03/17/17 16:15	DSC	TAL BUF
Total/NA	Analysis	Moisture		1	347794	03/17/17 02:12	CSW	TAL BUF

Client Sample ID: WC-16

Date Collected: 03/16/17 16:45

Date Received: 03/16/17 19:07

Lab Sample ID: 480-114703-4

Matrix: Solid

Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			348084	03/20/17 11:12	JAS	TAL BUF
Total/NA	Analysis	8260C		1	348094	03/20/17 21:15	CDC	TAL BUF
Total/NA	Prep	3550C			348014	03/20/17 08:04	MAS	TAL BUF
Total/NA	Analysis	8270D		1	348278	03/21/17 16:00	MKP	TAL BUF
Total/NA	Prep	3550C			347954	03/18/17 12:52	EG	TAL BUF
Total/NA	Analysis	8082A		1	348099	03/20/17 15:39	JMO	TAL BUF
Total/NA	Prep	3050B			347894	03/17/17 15:40	MVZ	TAL BUF
Total/NA	Analysis	6010C		1	348171	03/20/17 16:59	SLB	TAL BUF
Total/NA	Prep	7471B			348020	03/20/17 09:15	JRK	TAL BUF
Total/NA	Analysis	7471B		1	348120	03/20/17 13:23	JRK	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
9012	7.3.3	Solid	Cyanide, Reactive
9034	7.3.4	Solid	Sulfide, Reactive
9045D		Solid	Temperature
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Certification renewal pending - certification considered valid.



Method Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
9045D	pH	SW846	TAL BUF
9095B	Paint Filter	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114703-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-114703-1	WC-13	Solid	03/16/17 16:00	03/16/17 19:07
480-114703-2	WC-14	Solid	03/16/17 16:15	03/16/17 19:07
480-114703-3	WC-15	Solid	03/16/17 16:30	03/16/17 19:07
480-114703-4	WC-16	Solid	03/16/17 16:45	03/16/17 19:07

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Regulatory Program: DW NPDES RCRA Other:

Client Contact Company Name: <u>Accadis</u> Address: <u>50 Fountain Plaza</u> City/State/Zip: <u>Buffalo NY 14202</u> Phone: <u>716 667 6637</u> Fax: Project Name: <u>Flexo Transparent LLC</u> Site: P O #: <u>06105002.0006</u>		Project Manager: Kate Cubine Tell/Fax: Analysis Turnaround Time <input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input checked="" type="checkbox"/> 1 day		Site Contact: Lab Contact: <u>Melissa Deyo</u> Date: <u>3/16/17</u> Carrier: <u>Drop off</u> COC No.: <u>1</u> of <u>1</u> COCs													
Sample Identification WC-13 WC-14 WC-15 WC-16		Sample Date <u>3/16/17</u> <u>3/16/17</u> <u>3/16/17</u> <u>3/16/17</u>		Sample Time <u>16:00</u> <u>16:15</u> <u>16:30</u> <u>16:45</u>		Sample Type (C-Comp, G-Grab) <u>C</u> <u>C</u> <u>C</u> <u>C</u>		Matrix <u>Soil</u> <u>Soil</u> <u>Soil</u> <u>Soil</u>		# of Cont. <u>5</u> <u>5</u> <u>5</u> <u>5</u>		Filtered Sample (Y/N) <u>NN</u> <u>NN</u> <u>NN</u> <u>NN</u>		Perform MS / MSD (Y/N) <u>NN</u> <u>NN</u> <u>NN</u> <u>NN</u>		Lab Contact: <u>Melissa Deyo</u> Date: <u>3/16/17</u> Carrier: <u>Drop off</u> COC No.: <u>1</u> of <u>1</u> COCs	
Sample Specific Notes: 9012 Residual N 9047 Residual N 8082A total PCBs 8280C total VOCs 6010C total Metals 7470A total Mercury 8230D total SVOC 100A-Flash, 9045D												Sample Specific Notes: 480-114703 COC					
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown												Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months					
Special Instructions/QC Requirements & Comments: <u>Test America project # 48014909</u> Custody Seal No.: <input type="checkbox"/> Yes <input type="checkbox"/> No Relinquished by: <u>[Signature]</u> Relinquished by: <u>[Signature]</u> Relinquished by:												Therm ID No.: Date/Time: <u>3-16-17</u> 1967 Date/Time: Date/Time:					



Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-114703-1

Login Number: 114703

List Number: 1

Creator: Williams, Christopher S

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
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 sample IDs on the containers 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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-114765-1

Client Project/Site: Flexo Transparent

For:

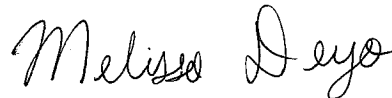
ARCADIS U.S. Inc

50 Fountain Plaza

Suite 600

Buffalo, New York 14202

Attn: Katherine Clubine



Authorized for release by:

3/23/2017 5:19:01 PM

Melissa Deyo, Project Manager I

(716)504-9874

melissa.deyo@testamericainc.com



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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114765-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114765-1

Job ID: 480-114765-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-114765-1

Receipt

The samples were received on 3/17/2017 4:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice.

GC/MS VOA

Method(s) 8260C: Reported analyte concentrations in the following sample is below 200 ug/kg and may be biased low due to the samples not being collected according to 5035-L/5035A-L low-level specifications: WC-17 (480-114765-1) and WC-18 (480-114765-2).

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

GC/MS Semi VOA

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

GC Semi VOA

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

Metals

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

General Chemistry

Method(s) 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: WC-17 (480-114765-1) and WC-18 (480-114765-2).

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.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114765-1

Client Sample ID: WC-17

Lab Sample ID: 480-114765-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	Passed				mL/100g	1		9095B	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.1		2.6	0.52	mg/Kg	1	*	6010C	Total/NA
Barium	103		0.65	0.14	mg/Kg	1	*	6010C	Total/NA
Cadmium	0.31		0.26	0.039	mg/Kg	1	*	6010C	Total/NA
Chromium	27.8		0.65	0.26	mg/Kg	1	*	6010C	Total/NA
Lead	16.9		1.3	0.31	mg/Kg	1	*	6010C	Total/NA
Selenium	0.72	J	5.2	0.52	mg/Kg	1	*	6010C	Total/NA
Mercury	0.015	J	0.026	0.010	mg/Kg	1	*	7471B	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>180		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	8.1	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	22.0	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: WC-18

Lab Sample ID: 480-114765-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	Passed				mL/100g	1		9095B	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.3		2.4	0.48	mg/Kg	1	*	6010C	Total/NA
Barium	45.0		0.60	0.13	mg/Kg	1	*	6010C	Total/NA
Cadmium	0.56		0.24	0.036	mg/Kg	1	*	6010C	Total/NA
Chromium	13.9		0.60	0.24	mg/Kg	1	*	6010C	Total/NA
Lead	69.1		1.2	0.29	mg/Kg	1	*	6010C	Total/NA
Mercury	0.061		0.024	0.0095	mg/Kg	1	*	7471B	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>180		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	7.8	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	22.1	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114765-1

Client Sample ID: WC-17
Date Collected: 03/17/17 15:00
Date Received: 03/17/17 16:45

Lab Sample ID: 480-114765-1
Matrix: Solid
Percent Solids: 77.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		6.5	0.79	ug/Kg	☼	03/21/17 10:43	03/21/17 13:39	1
1,2-Dichloroethane	ND		6.5	0.32	ug/Kg	☼	03/21/17 10:43	03/21/17 13:39	1
2-Butanone (MEK)	ND		32	2.4	ug/Kg	☼	03/21/17 10:43	03/21/17 13:39	1
Benzene	ND		6.5	0.32	ug/Kg	☼	03/21/17 10:43	03/21/17 13:39	1
Carbon tetrachloride	ND		6.5	0.63	ug/Kg	☼	03/21/17 10:43	03/21/17 13:39	1
Chlorobenzene	ND		6.5	0.85	ug/Kg	☼	03/21/17 10:43	03/21/17 13:39	1
Chloroform	ND		6.5	0.40	ug/Kg	☼	03/21/17 10:43	03/21/17 13:39	1
Tetrachloroethene	ND		6.5	0.87	ug/Kg	☼	03/21/17 10:43	03/21/17 13:39	1
Trichloroethene	ND		6.5	1.4	ug/Kg	☼	03/21/17 10:43	03/21/17 13:39	1
Vinyl chloride	ND		6.5	0.79	ug/Kg	☼	03/21/17 10:43	03/21/17 13:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		64 - 126				03/21/17 10:43	03/21/17 13:39	1
4-Bromofluorobenzene (Surr)	97		72 - 126				03/21/17 10:43	03/21/17 13:39	1
Dibromofluoromethane (Surr)	102		60 - 140				03/21/17 10:43	03/21/17 13:39	1
Toluene-d8 (Surr)	101		71 - 125				03/21/17 10:43	03/21/17 13:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		420	33	ug/Kg	☼	03/21/17 07:52	03/22/17 17:23	1
2,4-Dinitrotoluene	ND		210	44	ug/Kg	☼	03/21/17 07:52	03/22/17 17:23	1
2,4,5-Trichlorophenol	ND		210	58	ug/Kg	☼	03/21/17 07:52	03/22/17 17:23	1
2,4,6-Trichlorophenol	ND		210	43	ug/Kg	☼	03/21/17 07:52	03/22/17 17:23	1
2-Methylphenol	ND		210	25	ug/Kg	☼	03/21/17 07:52	03/22/17 17:23	1
3-Methylphenol	ND		420	33	ug/Kg	☼	03/21/17 07:52	03/22/17 17:23	1
4-Methylphenol	ND		420	25	ug/Kg	☼	03/21/17 07:52	03/22/17 17:23	1
Hexachlorobenzene	ND		210	29	ug/Kg	☼	03/21/17 07:52	03/22/17 17:23	1
Hexachlorobutadiene	ND		210	32	ug/Kg	☼	03/21/17 07:52	03/22/17 17:23	1
Hexachloroethane	ND		210	28	ug/Kg	☼	03/21/17 07:52	03/22/17 17:23	1
Nitrobenzene	ND		210	24	ug/Kg	☼	03/21/17 07:52	03/22/17 17:23	1
Pentachlorophenol	ND		420	210	ug/Kg	☼	03/21/17 07:52	03/22/17 17:23	1
Pyridine	ND		420	30	ug/Kg	☼	03/21/17 07:52	03/22/17 17:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	78		54 - 120				03/21/17 07:52	03/22/17 17:23	1
2-Fluorobiphenyl	72		60 - 120				03/21/17 07:52	03/22/17 17:23	1
2-Fluorophenol (Surr)	69		52 - 120				03/21/17 07:52	03/22/17 17:23	1
Nitrobenzene-d5 (Surr)	66		53 - 120				03/21/17 07:52	03/22/17 17:23	1
p-Terphenyl-d14 (Surr)	84		65 - 121				03/21/17 07:52	03/22/17 17:23	1
Phenol-d5 (Surr)	70		54 - 120				03/21/17 07:52	03/22/17 17:23	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.050	mg/Kg	☼	03/18/17 12:52	03/20/17 15:23	1
PCB-1221	ND		0.25	0.050	mg/Kg	☼	03/18/17 12:52	03/20/17 15:23	1
PCB-1232	ND		0.25	0.050	mg/Kg	☼	03/18/17 12:52	03/20/17 15:23	1
PCB-1242	ND		0.25	0.050	mg/Kg	☼	03/18/17 12:52	03/20/17 15:23	1
PCB-1248	ND		0.25	0.050	mg/Kg	☼	03/18/17 12:52	03/20/17 15:23	1
PCB-1254	ND		0.25	0.12	mg/Kg	☼	03/18/17 12:52	03/20/17 15:23	1
PCB-1260	ND		0.25	0.12	mg/Kg	☼	03/18/17 12:52	03/20/17 15:23	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114765-1

Client Sample ID: WC-17

Date Collected: 03/17/17 15:00

Date Received: 03/17/17 16:45

Lab Sample ID: 480-114765-1

Matrix: Solid

Percent Solids: 77.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	118		60 - 154	03/18/17 12:52	03/20/17 15:23	1
DCB Decachlorobiphenyl	121		65 - 174	03/18/17 12:52	03/20/17 15:23	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.1		2.6	0.52	mg/Kg	☼	03/21/17 11:45	03/21/17 21:54	1
Barium	103		0.65	0.14	mg/Kg	☼	03/21/17 11:45	03/21/17 21:54	1
Cadmium	0.31		0.26	0.039	mg/Kg	☼	03/21/17 11:45	03/21/17 21:54	1
Chromium	27.8		0.65	0.26	mg/Kg	☼	03/21/17 11:45	03/21/17 21:54	1
Lead	16.9		1.3	0.31	mg/Kg	☼	03/21/17 11:45	03/21/17 21:54	1
Selenium	0.72	J	5.2	0.52	mg/Kg	☼	03/21/17 11:45	03/21/17 21:54	1
Silver	ND		0.78	0.26	mg/Kg	☼	03/21/17 11:45	03/21/17 21:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.026	0.010	mg/Kg	☼	03/21/17 08:00	03/21/17 11:07	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	Passed				mL/100g			03/20/17 17:43	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>180		50.0	50.0	Degrees F			03/19/17 16:05	1
Cyanide, Reactive	ND		10	10	mg/Kg		03/20/17 01:05	03/21/17 04:05	1
Sulfide, Reactive	ND		10	10	mg/Kg		03/20/17 01:05	03/20/17 23:25	1
pH	8.1	HF	0.1	0.1	SU			03/19/17 10:50	1
Temperature	22.0	HF	0.001	0.001	Degrees C			03/19/17 10:50	1

Client Sample ID: WC-18

Date Collected: 03/17/17 15:20

Date Received: 03/17/17 16:45

Lab Sample ID: 480-114765-2

Matrix: Solid

Percent Solids: 81.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		6.1	0.74	ug/Kg	☼	03/21/17 10:43	03/21/17 14:05	1
1,2-Dichloroethane	ND		6.1	0.31	ug/Kg	☼	03/21/17 10:43	03/21/17 14:05	1
2-Butanone (MEK)	ND		30	2.2	ug/Kg	☼	03/21/17 10:43	03/21/17 14:05	1
Benzene	ND		6.1	0.30	ug/Kg	☼	03/21/17 10:43	03/21/17 14:05	1
Carbon tetrachloride	ND		6.1	0.59	ug/Kg	☼	03/21/17 10:43	03/21/17 14:05	1
Chlorobenzene	ND		6.1	0.80	ug/Kg	☼	03/21/17 10:43	03/21/17 14:05	1
Chloroform	ND		6.1	0.38	ug/Kg	☼	03/21/17 10:43	03/21/17 14:05	1
Tetrachloroethene	ND		6.1	0.82	ug/Kg	☼	03/21/17 10:43	03/21/17 14:05	1
Trichloroethene	ND		6.1	1.3	ug/Kg	☼	03/21/17 10:43	03/21/17 14:05	1
Vinyl chloride	ND		6.1	0.74	ug/Kg	☼	03/21/17 10:43	03/21/17 14:05	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,2-Dichloroethane-d4 (Surr)	103		64 - 126	03/21/17 10:43	03/21/17 14:05	1			
4-Bromofluorobenzene (Surr)	96		72 - 126	03/21/17 10:43	03/21/17 14:05	1			
Dibromofluoromethane (Surr)	102		60 - 140	03/21/17 10:43	03/21/17 14:05	1			
Toluene-d8 (Surr)	101		71 - 125	03/21/17 10:43	03/21/17 14:05	1			

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114765-1

Client Sample ID: WC-18

Lab Sample ID: 480-114765-2

Date Collected: 03/17/17 15:20

Matrix: Solid

Date Received: 03/17/17 16:45

Percent Solids: 81.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		400	32	ug/Kg	☼	03/21/17 07:52	03/22/17 17:49	1
2,4-Dinitrotoluene	ND		210	43	ug/Kg	☼	03/21/17 07:52	03/22/17 17:49	1
2,4,5-Trichlorophenol	ND		210	56	ug/Kg	☼	03/21/17 07:52	03/22/17 17:49	1
2,4,6-Trichlorophenol	ND		210	41	ug/Kg	☼	03/21/17 07:52	03/22/17 17:49	1
2-Methylphenol	ND		210	24	ug/Kg	☼	03/21/17 07:52	03/22/17 17:49	1
3-Methylphenol	ND		400	32	ug/Kg	☼	03/21/17 07:52	03/22/17 17:49	1
4-Methylphenol	ND		400	24	ug/Kg	☼	03/21/17 07:52	03/22/17 17:49	1
Hexachlorobenzene	ND		210	28	ug/Kg	☼	03/21/17 07:52	03/22/17 17:49	1
Hexachlorobutadiene	ND		210	30	ug/Kg	☼	03/21/17 07:52	03/22/17 17:49	1
Hexachloroethane	ND		210	27	ug/Kg	☼	03/21/17 07:52	03/22/17 17:49	1
Nitrobenzene	ND		210	23	ug/Kg	☼	03/21/17 07:52	03/22/17 17:49	1
Pentachlorophenol	ND		400	210	ug/Kg	☼	03/21/17 07:52	03/22/17 17:49	1
Pyridine	ND		400	29	ug/Kg	☼	03/21/17 07:52	03/22/17 17:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		54 - 120				03/21/17 07:52	03/22/17 17:49	1
2-Fluorobiphenyl	81		60 - 120				03/21/17 07:52	03/22/17 17:49	1
2-Fluorophenol (Surr)	73		52 - 120				03/21/17 07:52	03/22/17 17:49	1
Nitrobenzene-d5 (Surr)	74		53 - 120				03/21/17 07:52	03/22/17 17:49	1
p-Terphenyl-d14 (Surr)	91		65 - 121				03/21/17 07:52	03/22/17 17:49	1
Phenol-d5 (Surr)	72		54 - 120				03/21/17 07:52	03/22/17 17:49	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.052	mg/Kg	☼	03/18/17 12:52	03/20/17 14:36	1
PCB-1221	ND		0.26	0.052	mg/Kg	☼	03/18/17 12:52	03/20/17 14:36	1
PCB-1232	ND		0.26	0.052	mg/Kg	☼	03/18/17 12:52	03/20/17 14:36	1
PCB-1242	ND		0.26	0.052	mg/Kg	☼	03/18/17 12:52	03/20/17 14:36	1
PCB-1248	ND		0.26	0.052	mg/Kg	☼	03/18/17 12:52	03/20/17 14:36	1
PCB-1254	ND		0.26	0.12	mg/Kg	☼	03/18/17 12:52	03/20/17 14:36	1
PCB-1260	ND		0.26	0.12	mg/Kg	☼	03/18/17 12:52	03/20/17 14:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	117		60 - 154				03/18/17 12:52	03/20/17 14:36	1
DCB Decachlorobiphenyl	123		65 - 174				03/18/17 12:52	03/20/17 14:36	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.3		2.4	0.48	mg/Kg	☼	03/21/17 11:45	03/21/17 21:57	1
Barium	45.0		0.60	0.13	mg/Kg	☼	03/21/17 11:45	03/21/17 21:57	1
Cadmium	0.56		0.24	0.036	mg/Kg	☼	03/21/17 11:45	03/21/17 21:57	1
Chromium	13.9		0.60	0.24	mg/Kg	☼	03/21/17 11:45	03/21/17 21:57	1
Lead	69.1		1.2	0.29	mg/Kg	☼	03/21/17 11:45	03/21/17 21:57	1
Selenium	ND		4.8	0.48	mg/Kg	☼	03/21/17 11:45	03/21/17 21:57	1
Silver	ND		0.72	0.24	mg/Kg	☼	03/21/17 11:45	03/21/17 21:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.061		0.024	0.0095	mg/Kg	☼	03/21/17 08:00	03/21/17 11:09	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114765-1

Client Sample ID: WC-18
Date Collected: 03/17/17 15:20
Date Received: 03/17/17 16:45

Lab Sample ID: 480-114765-2
Matrix: Solid
Percent Solids: 81.1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	Passed				mL/100g			03/20/17 17:43	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>180		50.0	50.0	Degrees F			03/19/17 16:05	1
Cyanide, Reactive	ND		10	10	mg/Kg		03/20/17 01:05	03/21/17 04:05	1
Sulfide, Reactive	ND		10	10	mg/Kg		03/20/17 01:05	03/20/17 23:25	1
pH	7.8	HF	0.1	0.1	SU			03/19/17 10:50	1
Temperature	22.1	HF	0.001	0.001	Degrees C			03/19/17 10:50	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114765-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (64-126)	BFB (72-126)	DBFM (60-140)	TOL (71-125)
480-114765-1	WC-17	102	97	102	101
480-114765-2	WC-18	103	96	102	101
LCS 480-348249/1-A	Lab Control Sample	99	103	103	100
MB 480-348249/2-A	Method Blank	103	100	100	99

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (54-120)	FBP (60-120)	2FP (52-120)	NBZ (53-120)	TPH (65-121)	PHL (54-120)
480-114765-1	WC-17	78	72	69	66	84	70
480-114765-2	WC-18	83	81	73	74	91	72
480-114765-2 MS	WC-18	89	79	71	72	82	74
480-114765-2 MSD	WC-18	87	80	73	77	83	73
LCS 480-348198/2-A	Lab Control Sample	88	79	72	72	84	74
MB 480-348198/1-A	Method Blank	80	81	73	72	90	74

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPH = p-Terphenyl-d14 (Surr)

PHL = Phenol-d5 (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (60-154)	DCB1 (65-174)
480-114765-1	WC-17	118	121
480-114765-2	WC-18	117	123
480-114765-2 MS	WC-18	124	125
480-114765-2 MSD	WC-18	138	139
LCS 480-347954/2-A	Lab Control Sample	136	129
MB 480-347954/1-A	Method Blank	118	125

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114765-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-348249/2-A

Matrix: Solid

Analysis Batch: 348208

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 348249

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		4.9	0.59	ug/Kg		03/21/17 10:43	03/21/17 12:08	1
1,2-Dichloroethane	ND		4.9	0.24	ug/Kg		03/21/17 10:43	03/21/17 12:08	1
2-Butanone (MEK)	ND		24	1.8	ug/Kg		03/21/17 10:43	03/21/17 12:08	1
Benzene	ND		4.9	0.24	ug/Kg		03/21/17 10:43	03/21/17 12:08	1
Carbon tetrachloride	ND		4.9	0.47	ug/Kg		03/21/17 10:43	03/21/17 12:08	1
Chlorobenzene	ND		4.9	0.64	ug/Kg		03/21/17 10:43	03/21/17 12:08	1
Chloroform	ND		4.9	0.30	ug/Kg		03/21/17 10:43	03/21/17 12:08	1
Tetrachloroethene	ND		4.9	0.65	ug/Kg		03/21/17 10:43	03/21/17 12:08	1
Trichloroethene	ND		4.9	1.1	ug/Kg		03/21/17 10:43	03/21/17 12:08	1
Vinyl chloride	ND		4.9	0.59	ug/Kg		03/21/17 10:43	03/21/17 12:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		64 - 126	03/21/17 10:43	03/21/17 12:08	1
4-Bromofluorobenzene (Surr)	100		72 - 126	03/21/17 10:43	03/21/17 12:08	1
Dibromofluoromethane (Surr)	100		60 - 140	03/21/17 10:43	03/21/17 12:08	1
Toluene-d8 (Surr)	99		71 - 125	03/21/17 10:43	03/21/17 12:08	1

Lab Sample ID: LCS 480-348249/1-A

Matrix: Solid

Analysis Batch: 348208

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 348249

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	48.4	48.6		ug/Kg		100	59 - 125
1,2-Dichloroethane	48.4	46.5		ug/Kg		96	77 - 122
2-Butanone (MEK)	242	250		ug/Kg		103	70 - 134
Benzene	48.4	47.9		ug/Kg		99	79 - 127
Carbon tetrachloride	48.4	46.7		ug/Kg		96	75 - 135
Chlorobenzene	48.4	47.1		ug/Kg		97	76 - 124
Chloroform	48.4	48.6		ug/Kg		100	80 - 120
Tetrachloroethene	48.4	46.8		ug/Kg		97	74 - 122
Trichloroethene	48.4	47.5		ug/Kg		98	77 - 129
Vinyl chloride	48.4	50.9		ug/Kg		105	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		64 - 126
4-Bromofluorobenzene (Surr)	103		72 - 126
Dibromofluoromethane (Surr)	103		60 - 140
Toluene-d8 (Surr)	100		71 - 125

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-348198/1-A

Matrix: Solid

Analysis Batch: 348471

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 348198

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		320	25	ug/Kg		03/21/17 07:52	03/22/17 15:38	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114765-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-348198/1-A

Matrix: Solid

Analysis Batch: 348471

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 348198

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		170	34	ug/Kg		03/21/17 07:52	03/22/17 15:38	1
2,4,5-Trichlorophenol	ND		170	45	ug/Kg		03/21/17 07:52	03/22/17 15:38	1
2,4,6-Trichlorophenol	ND		170	33	ug/Kg		03/21/17 07:52	03/22/17 15:38	1
2-Methylphenol	ND		170	20	ug/Kg		03/21/17 07:52	03/22/17 15:38	1
3-Methylphenol	ND		320	25	ug/Kg		03/21/17 07:52	03/22/17 15:38	1
4-Methylphenol	ND		320	20	ug/Kg		03/21/17 07:52	03/22/17 15:38	1
Hexachlorobenzene	ND		170	22	ug/Kg		03/21/17 07:52	03/22/17 15:38	1
Hexachlorobutadiene	ND		170	24	ug/Kg		03/21/17 07:52	03/22/17 15:38	1
Hexachloroethane	ND		170	22	ug/Kg		03/21/17 07:52	03/22/17 15:38	1
Nitrobenzene	ND		170	19	ug/Kg		03/21/17 07:52	03/22/17 15:38	1
Pentachlorophenol	ND		320	170	ug/Kg		03/21/17 07:52	03/22/17 15:38	1
Pyridine	ND		320	23	ug/Kg		03/21/17 07:52	03/22/17 15:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	80		54 - 120	03/21/17 07:52	03/22/17 15:38	1
2-Fluorobiphenyl	81		60 - 120	03/21/17 07:52	03/22/17 15:38	1
2-Fluorophenol (Surr)	73		52 - 120	03/21/17 07:52	03/22/17 15:38	1
Nitrobenzene-d5 (Surr)	72		53 - 120	03/21/17 07:52	03/22/17 15:38	1
p-Terphenyl-d14 (Surr)	90		65 - 121	03/21/17 07:52	03/22/17 15:38	1
Phenol-d5 (Surr)	74		54 - 120	03/21/17 07:52	03/22/17 15:38	1

Lab Sample ID: LCS 480-348198/2-A

Matrix: Solid

Analysis Batch: 348471

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 348198

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	1660	1180		ug/Kg		71	48 - 120
2,4-Dinitrotoluene	1660	1450		ug/Kg		87	63 - 120
2,4,5-Trichlorophenol	1660	1430		ug/Kg		86	59 - 126
2,4,6-Trichlorophenol	1660	1460		ug/Kg		88	59 - 123
2-Methylphenol	1660	1270		ug/Kg		77	54 - 120
3-Methylphenol	1660	1290		ug/Kg		78	55 - 120
4-Methylphenol	1660	1290		ug/Kg		77	55 - 120
Hexachlorobenzene	1660	1510		ug/Kg		91	60 - 120
Hexachlorobutadiene	1660	1310		ug/Kg		79	45 - 120
Hexachloroethane	1660	1140		ug/Kg		68	41 - 120
Nitrobenzene	1660	1270		ug/Kg		76	54 - 120
Pentachlorophenol	3330	2790		ug/Kg		84	51 - 120
Pyridine	1660	915		ug/Kg		55	23 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	88		54 - 120
2-Fluorobiphenyl	79		60 - 120
2-Fluorophenol (Surr)	72		52 - 120
Nitrobenzene-d5 (Surr)	72		53 - 120
p-Terphenyl-d14 (Surr)	84		65 - 121
Phenol-d5 (Surr)	74		54 - 120

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114765-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-114765-2 MS

Matrix: Solid

Analysis Batch: 348471

Client Sample ID: WC-18

Prep Type: Total/NA

Prep Batch: 348198

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
1,4-Dichlorobenzene	ND		2050	1300		ug/Kg	☼	64	34 - 120
2,4-Dinitrotoluene	ND		2050	1790		ug/Kg	☼	87	63 - 125
2,4,5-Trichlorophenol	ND		2050	1720		ug/Kg	☼	84	46 - 120
2,4,6-Trichlorophenol	ND		2050	1830		ug/Kg	☼	89	41 - 123
2-Methylphenol	ND		2050	1530		ug/Kg	☼	75	48 - 120
3-Methylphenol	ND		2050	1550		ug/Kg	☼	76	50 - 120
4-Methylphenol	ND		2050	1550		ug/Kg	☼	76	50 - 120
Hexachlorobenzene	ND		2050	1820		ug/Kg	☼	89	60 - 120
Hexachlorobutadiene	ND		2050	1520		ug/Kg	☼	74	45 - 120
Hexachloroethane	ND		2050	1280		ug/Kg	☼	63	21 - 120
Nitrobenzene	ND		2050	1530		ug/Kg	☼	75	49 - 120
Pentachlorophenol	ND		4100	3280		ug/Kg	☼	80	25 - 136
Pyridine	ND		2050	1150		ug/Kg	☼	56	20 - 120

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	89		54 - 120
2-Fluorobiphenyl	79		60 - 120
2-Fluorophenol (Surr)	71		52 - 120
Nitrobenzene-d5 (Surr)	72		53 - 120
p-Terphenyl-d14 (Surr)	82		65 - 121
Phenol-d5 (Surr)	74		54 - 120

Lab Sample ID: 480-114765-2 MSD

Matrix: Solid

Analysis Batch: 348471

Client Sample ID: WC-18

Prep Type: Total/NA

Prep Batch: 348198

Analyte	Sample	Sample	Spike	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	
	Result	Qualifier		Result	Qualifier					RPD	Limit
1,4-Dichlorobenzene	ND		2050	1440		ug/Kg	☼	70	34 - 120	10	35
2,4-Dinitrotoluene	ND		2050	1810		ug/Kg	☼	88	63 - 125	1	20
2,4,5-Trichlorophenol	ND		2050	1750		ug/Kg	☼	85	46 - 120	1	18
2,4,6-Trichlorophenol	ND		2050	1760		ug/Kg	☼	86	41 - 123	4	19
2-Methylphenol	ND		2050	1530		ug/Kg	☼	74	48 - 120	0	27
3-Methylphenol	ND		2050	1570		ug/Kg	☼	77	50 - 120	1	24
4-Methylphenol	ND		2050	1570		ug/Kg	☼	77	50 - 120	1	24
Hexachlorobenzene	ND		2050	1830		ug/Kg	☼	89	60 - 120	0	15
Hexachlorobutadiene	ND		2050	1650		ug/Kg	☼	80	45 - 120	8	44
Hexachloroethane	ND		2050	1400		ug/Kg	☼	68	21 - 120	9	46
Nitrobenzene	ND		2050	1610		ug/Kg	☼	79	49 - 120	5	24
Pentachlorophenol	ND		4100	3250		ug/Kg	☼	79	25 - 136	1	35
Pyridine	ND		2050	1200		ug/Kg	☼	58	20 - 120	4	49

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	87		54 - 120
2-Fluorobiphenyl	80		60 - 120
2-Fluorophenol (Surr)	73		52 - 120
Nitrobenzene-d5 (Surr)	77		53 - 120
p-Terphenyl-d14 (Surr)	83		65 - 121

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114765-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-114765-2 MSD
Matrix: Solid
Analysis Batch: 348471

Client Sample ID: WC-18
Prep Type: Total/NA
Prep Batch: 348198

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Phenol-d5 (Surr)	73		54 - 120

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-347954/1-A
Matrix: Solid
Analysis Batch: 348099

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 347954

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		0.21	0.042	mg/Kg		03/18/17 12:52	03/20/17 13:32	1
PCB-1221	ND		0.21	0.042	mg/Kg		03/18/17 12:52	03/20/17 13:32	1
PCB-1232	ND		0.21	0.042	mg/Kg		03/18/17 12:52	03/20/17 13:32	1
PCB-1242	ND		0.21	0.042	mg/Kg		03/18/17 12:52	03/20/17 13:32	1
PCB-1248	ND		0.21	0.042	mg/Kg		03/18/17 12:52	03/20/17 13:32	1
PCB-1254	ND		0.21	0.10	mg/Kg		03/18/17 12:52	03/20/17 13:32	1
PCB-1260	ND		0.21	0.10	mg/Kg		03/18/17 12:52	03/20/17 13:32	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	118		60 - 154	03/18/17 12:52	03/20/17 13:32	1
DCB Decachlorobiphenyl	125		65 - 174	03/18/17 12:52	03/20/17 13:32	1

Lab Sample ID: LCS 480-347954/2-A
Matrix: Solid
Analysis Batch: 348099

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 347954

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
PCB-1016	2.13	3.13		mg/Kg		147	51 - 185
PCB-1260	2.13	2.59		mg/Kg		122	61 - 184

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	136		60 - 154
DCB Decachlorobiphenyl	129		65 - 174

Lab Sample ID: 480-114765-2 MS
Matrix: Solid
Analysis Batch: 348099

Client Sample ID: WC-18
Prep Type: Total/NA
Prep Batch: 347954

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
PCB-1016	ND		2.45	3.04		mg/Kg	☼	124	50 - 177
PCB-1260	ND		2.45	2.60		mg/Kg	☼	106	33 - 200

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	124		60 - 154
DCB Decachlorobiphenyl	125		65 - 174

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114765-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 480-114765-2 MSD

Matrix: Solid

Analysis Batch: 348099

Client Sample ID: WC-18

Prep Type: Total/NA

Prep Batch: 347954

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
PCB-1016	ND		2.27	3.15		mg/Kg	☼	139	50 - 177	4	50
PCB-1260	ND		2.27	2.62		mg/Kg	☼	115	33 - 200	1	50
Surrogate	%Recovery	MSD Qualifier	Limits								
Tetrachloro-m-xylene	138		60 - 154								
DCB Decachlorobiphenyl	139		65 - 174								

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-348235/1-A

Matrix: Solid

Analysis Batch: 348398

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 348235

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		1.9	0.39	mg/Kg		03/21/17 11:45	03/21/17 20:54	1
Barium	ND		0.49	0.11	mg/Kg		03/21/17 11:45	03/21/17 20:54	1
Cadmium	ND		0.19	0.029	mg/Kg		03/21/17 11:45	03/21/17 20:54	1
Chromium	ND		0.49	0.19	mg/Kg		03/21/17 11:45	03/21/17 20:54	1
Lead	ND		0.97	0.23	mg/Kg		03/21/17 11:45	03/21/17 20:54	1
Selenium	ND		3.9	0.39	mg/Kg		03/21/17 11:45	03/21/17 20:54	1
Silver	ND		0.58	0.19	mg/Kg		03/21/17 11:45	03/21/17 20:54	1

Lab Sample ID: LCSSRM 480-348235/2-A

Matrix: Solid

Analysis Batch: 348398

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 348235

Analyte	Spike Added	LCSSRM	LCSSRM	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Arsenic	145	124.9		mg/Kg		86.1	70.3 - 136.6
Barium	209	174.8		mg/Kg		83.7	73.7 - 126.8
Cadmium	87.6	78.89		mg/Kg		90.1	73.3 - 126.7
Chromium	143	126.8		mg/Kg		88.7	69.9 - 129.4
Lead	146	145.7		mg/Kg		99.8	73.3 - 126.7
Selenium	178	154.4		mg/Kg		86.7	68.0 - 131.5
Silver	31.3	26.48		mg/Kg		84.6	65.2 - 134.5

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114765-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-348132/1-A
Matrix: Solid
Analysis Batch: 348263

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 348132

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0081	mg/Kg		03/21/17 08:00	03/21/17 10:46	1

Lab Sample ID: LCDSRM 480-348132/3-A ^10
Matrix: Solid
Analysis Batch: 348263

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 348132

Analyte	Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	12.6	10.82		mg/Kg		85.9	44.4 - 128.6	0	20

Lab Sample ID: LCSSRM 480-348132/2-A ^10
Matrix: Solid
Analysis Batch: 348263

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 348132

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	12.6	10.77		mg/Kg		85.5	44.4 - 128.6		

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-347986/1
Matrix: Solid
Analysis Batch: 347986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Flashpoint	81.0	80.00		Degrees F		99	97.5 - 102.5		

Lab Sample ID: 480-114765-2 DU
Matrix: Solid
Analysis Batch: 347986

Client Sample ID: WC-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Flashpoint	>180		>180		Degrees F		NC	10

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-348090/1-A
Matrix: Solid
Analysis Batch: 348225

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 348090

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10.0	10.0	mg/Kg		03/20/17 01:05	03/21/17 04:05	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114765-1

Method: 9012 - Cyanide, Reactive (Continued)

Lab Sample ID: LCS 480-348090/2-A

Matrix: Solid

Analysis Batch: 348225

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 348090

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Reactive	1000	485.0		mg/Kg		49	10 - 100

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-348083/1-A

Matrix: Solid

Analysis Batch: 348221

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 348083

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		10.0	10.0	mg/Kg		03/20/17 01:05	03/20/17 23:25	1

Lab Sample ID: LCS 480-348083/2-A

Matrix: Solid

Analysis Batch: 348221

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 348083

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide, Reactive	820	721.4		mg/Kg		88	10 - 100

Method: 9045D - pH

Lab Sample ID: LCS 480-347985/1

Matrix: Solid

Analysis Batch: 347985

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		99	99 - 101

Lab Sample ID: 480-114765-2 DU

Matrix: Solid

Analysis Batch: 347985

Client Sample ID: WC-18

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.8	HF	7.8		SU		0.1	5
Temperature	22.1	HF	22.0		Degrees C		6	

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114765-1

GC/MS VOA

Analysis Batch: 348208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114765-1	WC-17	Total/NA	Solid	8260C	348249
480-114765-2	WC-18	Total/NA	Solid	8260C	348249
MB 480-348249/2-A	Method Blank	Total/NA	Solid	8260C	348249
LCS 480-348249/1-A	Lab Control Sample	Total/NA	Solid	8260C	348249

Prep Batch: 348249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114765-1	WC-17	Total/NA	Solid	5035A_L	
480-114765-2	WC-18	Total/NA	Solid	5035A_L	
MB 480-348249/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-348249/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

GC/MS Semi VOA

Prep Batch: 348198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114765-1	WC-17	Total/NA	Solid	3550C	
480-114765-2	WC-18	Total/NA	Solid	3550C	
MB 480-348198/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-348198/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-114765-2 MS	WC-18	Total/NA	Solid	3550C	
480-114765-2 MSD	WC-18	Total/NA	Solid	3550C	

Analysis Batch: 348471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114765-1	WC-17	Total/NA	Solid	8270D	348198
480-114765-2	WC-18	Total/NA	Solid	8270D	348198
MB 480-348198/1-A	Method Blank	Total/NA	Solid	8270D	348198
LCS 480-348198/2-A	Lab Control Sample	Total/NA	Solid	8270D	348198
480-114765-2 MS	WC-18	Total/NA	Solid	8270D	348198
480-114765-2 MSD	WC-18	Total/NA	Solid	8270D	348198

GC Semi VOA

Prep Batch: 347954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114765-1	WC-17	Total/NA	Solid	3550C	
480-114765-2	WC-18	Total/NA	Solid	3550C	
MB 480-347954/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-347954/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-114765-2 MS	WC-18	Total/NA	Solid	3550C	
480-114765-2 MSD	WC-18	Total/NA	Solid	3550C	

Analysis Batch: 348099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114765-1	WC-17	Total/NA	Solid	8082A	347954
480-114765-2	WC-18	Total/NA	Solid	8082A	347954
MB 480-347954/1-A	Method Blank	Total/NA	Solid	8082A	347954
LCS 480-347954/2-A	Lab Control Sample	Total/NA	Solid	8082A	347954
480-114765-2 MS	WC-18	Total/NA	Solid	8082A	347954

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114765-1

GC Semi VOA (Continued)

Analysis Batch: 348099 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114765-2 MSD	WC-18	Total/NA	Solid	8082A	347954

Metals

Prep Batch: 348132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114765-1	WC-17	Total/NA	Solid	7471B	
480-114765-2	WC-18	Total/NA	Solid	7471B	
MB 480-348132/1-A	Method Blank	Total/NA	Solid	7471B	
LCDSRM 480-348132/3-A ^10	Lab Control Sample Dup	Total/NA	Solid	7471B	
LCSSRM 480-348132/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 348235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114765-1	WC-17	Total/NA	Solid	3050B	
480-114765-2	WC-18	Total/NA	Solid	3050B	
MB 480-348235/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-348235/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 348263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114765-1	WC-17	Total/NA	Solid	7471B	348132
480-114765-2	WC-18	Total/NA	Solid	7471B	348132
MB 480-348132/1-A	Method Blank	Total/NA	Solid	7471B	348132
LCDSRM 480-348132/3-A ^10	Lab Control Sample Dup	Total/NA	Solid	7471B	348132
LCSSRM 480-348132/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	348132

Analysis Batch: 348398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114765-1	WC-17	Total/NA	Solid	6010C	348235
480-114765-2	WC-18	Total/NA	Solid	6010C	348235
MB 480-348235/1-A	Method Blank	Total/NA	Solid	6010C	348235
LCSSRM 480-348235/2-A	Lab Control Sample	Total/NA	Solid	6010C	348235

General Chemistry

Analysis Batch: 347941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114765-1	WC-17	Total/NA	Solid	Moisture	
480-114765-2	WC-18	Total/NA	Solid	Moisture	

Analysis Batch: 347985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114765-1	WC-17	Total/NA	Solid	9045D	
480-114765-2	WC-18	Total/NA	Solid	9045D	
LCS 480-347985/1	Lab Control Sample	Total/NA	Solid	9045D	
480-114765-2 DU	WC-18	Total/NA	Solid	9045D	

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114765-1

General Chemistry (Continued)

Analysis Batch: 347986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114765-1	WC-17	Total/NA	Solid	1010A	
480-114765-2	WC-18	Total/NA	Solid	1010A	
LCS 480-347986/1	Lab Control Sample	Total/NA	Solid	1010A	
480-114765-2 DU	WC-18	Total/NA	Solid	1010A	

Prep Batch: 348083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114765-1	WC-17	Total/NA	Solid	7.3.4	
480-114765-2	WC-18	Total/NA	Solid	7.3.4	
MB 480-348083/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 480-348083/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	

Prep Batch: 348090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114765-1	WC-17	Total/NA	Solid	7.3.3	
480-114765-2	WC-18	Total/NA	Solid	7.3.3	
MB 480-348090/1-A	Method Blank	Total/NA	Solid	7.3.3	
LCS 480-348090/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	

Analysis Batch: 348156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114765-1	WC-17	Total/NA	Solid	9095B	
480-114765-2	WC-18	Total/NA	Solid	9095B	

Analysis Batch: 348221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114765-1	WC-17	Total/NA	Solid	9034	348083
480-114765-2	WC-18	Total/NA	Solid	9034	348083
MB 480-348083/1-A	Method Blank	Total/NA	Solid	9034	348083
LCS 480-348083/2-A	Lab Control Sample	Total/NA	Solid	9034	348083

Analysis Batch: 348225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-114765-1	WC-17	Total/NA	Solid	9012	348090
480-114765-2	WC-18	Total/NA	Solid	9012	348090
MB 480-348090/1-A	Method Blank	Total/NA	Solid	9012	348090
LCS 480-348090/2-A	Lab Control Sample	Total/NA	Solid	9012	348090

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114765-1

Client Sample ID: WC-17
Date Collected: 03/17/17 15:00
Date Received: 03/17/17 16:45

Lab Sample ID: 480-114765-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1010A		1	347986	03/19/17 16:05	MDL	TAL BUF
Total/NA	Prep	7.3.3			348090	03/20/17 01:05	LAW	TAL BUF
Total/NA	Analysis	9012		1	348225	03/21/17 04:05	LAW	TAL BUF
Total/NA	Prep	7.3.4			348083	03/20/17 01:05	LAW	TAL BUF
Total/NA	Analysis	9034		1	348221	03/20/17 23:25	LAW	TAL BUF
Total/NA	Analysis	9045D		1	347985	03/19/17 10:50	MDL	TAL BUF
Total/NA	Analysis	9095B		1	348156	03/20/17 17:43	DSC	TAL BUF
Total/NA	Analysis	Moisture		1	347941	03/18/17 05:55	CSW	TAL BUF

Client Sample ID: WC-17
Date Collected: 03/17/17 15:00
Date Received: 03/17/17 16:45

Lab Sample ID: 480-114765-1
Matrix: Solid
Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			348249	03/21/17 10:43	JAS	TAL BUF
Total/NA	Analysis	8260C		1	348208	03/21/17 13:39	CDC	TAL BUF
Total/NA	Prep	3550C			348198	03/21/17 07:52	RJS	TAL BUF
Total/NA	Analysis	8270D		1	348471	03/22/17 17:23	DMR	TAL BUF
Total/NA	Prep	3550C			347954	03/18/17 12:52	EG	TAL BUF
Total/NA	Analysis	8082A		1	348099	03/20/17 15:23	JMO	TAL BUF
Total/NA	Prep	3050B			348235	03/21/17 11:45	MVZ	TAL BUF
Total/NA	Analysis	6010C		1	348398	03/21/17 21:54	AMH	TAL BUF
Total/NA	Prep	7471B			348132	03/21/17 08:00	JRK	TAL BUF
Total/NA	Analysis	7471B		1	348263	03/21/17 11:07	JRK	TAL BUF

Client Sample ID: WC-18
Date Collected: 03/17/17 15:20
Date Received: 03/17/17 16:45

Lab Sample ID: 480-114765-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1010A		1	347986	03/19/17 16:05	MDL	TAL BUF
Total/NA	Prep	7.3.3			348090	03/20/17 01:05	LAW	TAL BUF
Total/NA	Analysis	9012		1	348225	03/21/17 04:05	LAW	TAL BUF
Total/NA	Prep	7.3.4			348083	03/20/17 01:05	LAW	TAL BUF
Total/NA	Analysis	9034		1	348221	03/20/17 23:25	LAW	TAL BUF
Total/NA	Analysis	9045D		1	347985	03/19/17 10:50	MDL	TAL BUF
Total/NA	Analysis	9095B		1	348156	03/20/17 17:43	DSC	TAL BUF
Total/NA	Analysis	Moisture		1	347941	03/18/17 05:55	CSW	TAL BUF

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114765-1

Client Sample ID: WC-18

Lab Sample ID: 480-114765-2

Date Collected: 03/17/17 15:20

Matrix: Solid

Date Received: 03/17/17 16:45

Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			348249	03/21/17 10:43	JAS	TAL BUF
Total/NA	Analysis	8260C		1	348208	03/21/17 14:05	CDC	TAL BUF
Total/NA	Prep	3550C			348198	03/21/17 07:52	RJS	TAL BUF
Total/NA	Analysis	8270D		1	348471	03/22/17 17:49	DMR	TAL BUF
Total/NA	Prep	3550C			347954	03/18/17 12:52	EG	TAL BUF
Total/NA	Analysis	8082A		1	348099	03/20/17 14:36	JMO	TAL BUF
Total/NA	Prep	3050B			348235	03/21/17 11:45	MVZ	TAL BUF
Total/NA	Analysis	6010C		1	348398	03/21/17 21:57	AMH	TAL BUF
Total/NA	Prep	7471B			348132	03/21/17 08:00	JRK	TAL BUF
Total/NA	Analysis	7471B		1	348263	03/21/17 11:09	JRK	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114765-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
9012	7.3.3	Solid	Cyanide, Reactive
9034	7.3.4	Solid	Sulfide, Reactive
9045D		Solid	Temperature
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Certification renewal pending - certification considered valid.

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114765-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
9045D	pH	SW846	TAL BUF
9095B	Paint Filter	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-114765-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-114765-1	WC-17	Solid	03/17/17 15:00	03/17/17 16:45
480-114765-2	WC-18	Solid	03/17/17 15:20	03/17/17 16:45

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Regulatory Program: DW NPDES RCRA Other:

Client Contact	Company Name: Arcadis	Project Manager: Kate Clobine	Date: 3/17/17	COC No: 1 of 1 COCs
Company Name: Arcadis	Address: 50 Fountain Plaza	Lab Contact: Mejissa Dejo	Carrier: Drop off	Sampler: _____
City/State/Zip: Buffalo, NY 14202	Phone: 716-667-6637	Analysis Turnaround Time	For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____	
Project Name: Flexo Transparent LLC	Fax: _____	<input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS	Job / SDG No.: _____	
Site: _____	TAT if different from Below	<input type="checkbox"/> 2 weeks	Sample Specific Notes:	
P.O.# 06105002.0006	<input type="checkbox"/> 1 week	<input type="checkbox"/> 2 days		
	<input checked="" type="checkbox"/> 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Yield Reactive CN 4034 Round	8095B	8082A Total PCBs	810C Total Metals	2470A Total Mercury	8270D Total SUC	1010A Flash, g44 SD
WC-17	3/17/17	1500	C	Soil	5	N	M	X	X	X	X	X	X	X
WC-18	3/17/17	1520	C	Soil	5	N	M	X	X	X	X	X	X	X

Preservation Used: 1-Ice, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-Other

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client Disposal by Lab Archive for _____ Months

Special Instructions/QC Requirements & Comments:
Test America Project # 48014909

Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Received by: **Arcadis** Date/Time: **3/17/17 1645** Company: **JAD**

Received by: **Lawrence** Date/Time: **3-17-17 1845** Company: _____

Received in Laboratory by: _____ Date/Time: _____ Company: _____



Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-114765-1

Login Number: 114765

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
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 sample IDs on the containers 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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-116230-1

Client Project/Site: Flexo Transparent

For:

ARCADIS U.S. Inc

50 Fountain Plaza

Suite 600

Buffalo, New York 14202

Attn: Katherine Clubine



Authorized for release by:

4/19/2017 4:23:11 PM

Rebecca Jones, Project Management Assistant I

rebecca.jones@testamericainc.com

Designee for

Melissa Deyo, Project Manager I

(716)504-9874

melissa.deyo@testamericainc.com

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-116230-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-116230-1

Job ID: 480-116230-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-116230-1

Receipt

The sample was received on 4/13/2017 4:30 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9° C.

GC/MS VOA

Method(s) 8260C: The following sample was diluted due to the nature of the TCLP matrix: WC-19 (480-116230-1) and (LB 480-352308/1-A). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA

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

GC Semi VOA

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

Metals

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

General Chemistry

Method(s) 9045C, 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: WC-19 (480-116230-1).

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

Organic Prep

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 480-352505.

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

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-116230-1

Client Sample ID: WC-19

Lab Sample ID: 480-116230-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	Passed				mL/100g	1		9095B	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.0049	J	0.010	0.0034	mg/L	10		8260C	TCLP
PCB-1254	2.4		0.31	0.15	mg/Kg	1	*	8082A	Total/NA
PCB-1260	2.3		0.31	0.15	mg/Kg	1	*	8082A	Total/NA
Arsenic	0.011	J	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	0.81	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0061		0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.049	B	0.020	0.0030	mg/L	1		6010C	TCLP
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	7.5	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	19.9	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo



Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-116230-1

Client Sample ID: WC-19
Date Collected: 04/13/17 15:00
Date Received: 04/13/17 16:30

Lab Sample ID: 480-116230-1
Matrix: Solid

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			04/19/17 13:05	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			04/19/17 13:05	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			04/19/17 13:05	10
Benzene	ND		0.010	0.0041	mg/L			04/19/17 13:05	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			04/19/17 13:05	10
Chlorobenzene	ND		0.010	0.0075	mg/L			04/19/17 13:05	10
Chloroform	0.0049	J	0.010	0.0034	mg/L			04/19/17 13:05	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			04/19/17 13:05	10
Trichloroethene	ND		0.010	0.0046	mg/L			04/19/17 13:05	10
Vinyl chloride	ND		0.010	0.0090	mg/L			04/19/17 13:05	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120					04/19/17 13:05	10
4-Bromofluorobenzene (Surr)	100		73 - 120					04/19/17 13:05	10
Dibromofluoromethane (Surr)	109		75 - 123					04/19/17 13:05	10
Toluene-d8 (Surr)	96		80 - 120					04/19/17 13:05	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		04/18/17 08:19	04/19/17 09:50	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		04/18/17 08:19	04/19/17 09:50	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		04/18/17 08:19	04/19/17 09:50	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		04/18/17 08:19	04/19/17 09:50	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		04/18/17 08:19	04/19/17 09:50	1
3-Methylphenol	ND		0.010	0.00040	mg/L		04/18/17 08:19	04/19/17 09:50	1
4-Methylphenol	ND		0.010	0.00036	mg/L		04/18/17 08:19	04/19/17 09:50	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		04/18/17 08:19	04/19/17 09:50	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		04/18/17 08:19	04/19/17 09:50	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		04/18/17 08:19	04/19/17 09:50	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		04/18/17 08:19	04/19/17 09:50	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		04/18/17 08:19	04/19/17 09:50	1
Pyridine	ND		0.025	0.00041	mg/L		04/18/17 08:19	04/19/17 09:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		41 - 120				04/18/17 08:19	04/19/17 09:50	1
2-Fluorobiphenyl	74		48 - 120				04/18/17 08:19	04/19/17 09:50	1
2-Fluorophenol (Surr)	41		35 - 120				04/18/17 08:19	04/19/17 09:50	1
Nitrobenzene-d5 (Surr)	70		46 - 120				04/18/17 08:19	04/19/17 09:50	1
Phenol-d5 (Surr)	29		22 - 120				04/18/17 08:19	04/19/17 09:50	1
p-Terphenyl-d14 (Surr)	86		59 - 136				04/18/17 08:19	04/19/17 09:50	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.011	J	0.015	0.0056	mg/L		04/18/17 10:23	04/18/17 22:01	1
Barium	0.81	J	1.0	0.10	mg/L		04/18/17 10:23	04/18/17 22:01	1
Cadmium	0.0061		0.0020	0.00050	mg/L		04/18/17 10:23	04/18/17 22:01	1
Chromium	ND		0.020	0.010	mg/L		04/18/17 10:23	04/18/17 22:01	1
Lead	0.049	B	0.020	0.0030	mg/L		04/18/17 10:23	04/18/17 22:01	1
Selenium	ND		0.025	0.0087	mg/L		04/18/17 10:23	04/18/17 22:01	1
Silver	ND		0.0060	0.0017	mg/L		04/18/17 10:23	04/18/17 22:01	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-116230-1

Client Sample ID: WC-19
Date Collected: 04/13/17 15:00
Date Received: 04/13/17 16:30

Lab Sample ID: 480-116230-1
Matrix: Solid

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		04/18/17 11:00	04/18/17 14:04	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	Passed				mL/100g			04/19/17 00:48	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		50.0	50.0	Degrees F			04/14/17 09:45	1
Cyanide, Reactive	ND		10	10	mg/Kg		04/18/17 02:35	04/18/17 13:48	1
Sulfide, Reactive	ND		10	10	mg/Kg		04/18/17 02:35	04/18/17 11:30	1
pH	7.5	HF	0.1	0.1	SU			04/18/17 20:14	1
Temperature	19.9	HF	0.001	0.001	Degrees C			04/18/17 20:14	1

Client Sample ID: WC-19
Date Collected: 04/13/17 15:00
Date Received: 04/13/17 16:30

Lab Sample ID: 480-116230-1
Matrix: Solid
Percent Solids: 67.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.31	0.061	mg/Kg	✳	04/14/17 09:45	04/14/17 19:44	1
PCB-1221	ND		0.31	0.061	mg/Kg	✳	04/14/17 09:45	04/14/17 19:44	1
PCB-1232	ND		0.31	0.061	mg/Kg	✳	04/14/17 09:45	04/14/17 19:44	1
PCB-1242	ND		0.31	0.061	mg/Kg	✳	04/14/17 09:45	04/14/17 19:44	1
PCB-1248	ND		0.31	0.061	mg/Kg	✳	04/14/17 09:45	04/14/17 19:44	1
PCB-1254	2.4		0.31	0.15	mg/Kg	✳	04/14/17 09:45	04/14/17 19:44	1
PCB-1260	2.3		0.31	0.15	mg/Kg	✳	04/14/17 09:45	04/14/17 19:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	87		60 - 154				04/14/17 09:45	04/14/17 19:44	1
DCB Decachlorobiphenyl	75		65 - 174				04/14/17 09:45	04/14/17 19:44	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-116230-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
LCS 480-352768/4	Lab Control Sample	98	104	108	102
MB 480-352768/6	Method Blank	103	107	113	100

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-116230-1	WC-19	100	100	109	96
LB 480-352308/1-A	Method Blank	101	106	115	96

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (41-120)	FBP (48-120)	2FP (35-120)	NBZ (46-120)	PHL (22-120)	TPH (59-136)
LCS 480-352505/2-A	Lab Control Sample	92	82	45	78	33	89
LCSD 480-352505/3-A	Lab Control Sample Dup	91	79	43	77	32	92
MB 480-352505/1-A	Method Blank	72	84	46	83	34	91

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = p-Terphenyl-d14 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (41-120)	FBP (48-120)	2FP (35-120)	NBZ (46-120)	PHL (22-120)	TPH (59-136)
480-116230-1	WC-19	77	74	41	70	29	86
LB 480-352304/1-B	Method Blank	77	79	44	79	32	96

TestAmerica Buffalo

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-116230-1

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPH = p-Terphenyl-d14 (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX2	DCB2
		(60-154)	(65-174)
480-116230-1	WC-19	87	75
LCS 480-352015/2-A	Lab Control Sample	114	131
MB 480-352015/1-A	Method Blank	104	115

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-116230-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-352768/6

Matrix: Solid

Analysis Batch: 352768

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			04/19/17 10:48	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			04/19/17 10:48	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			04/19/17 10:48	1
Benzene	ND		0.0010	0.00041	mg/L			04/19/17 10:48	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			04/19/17 10:48	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			04/19/17 10:48	1
Chloroform	ND		0.0010	0.00034	mg/L			04/19/17 10:48	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			04/19/17 10:48	1
Trichloroethene	ND		0.0010	0.00046	mg/L			04/19/17 10:48	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			04/19/17 10:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		04/19/17 10:48	1
4-Bromofluorobenzene (Surr)	107		73 - 120		04/19/17 10:48	1
Dibromofluoromethane (Surr)	113		75 - 123		04/19/17 10:48	1
Toluene-d8 (Surr)	100		80 - 120		04/19/17 10:48	1

Lab Sample ID: LCS 480-352768/4

Matrix: Solid

Analysis Batch: 352768

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0250	0.0257		mg/L		103	66 - 127
1,2-Dichloroethane	0.0250	0.0230		mg/L		92	75 - 120
2-Butanone (MEK)	0.125	0.142		mg/L		113	57 - 140
Benzene	0.0250	0.0250		mg/L		100	71 - 124
Carbon tetrachloride	0.0250	0.0230		mg/L		92	72 - 134
Chlorobenzene	0.0250	0.0243		mg/L		97	80 - 120
Chloroform	0.0250	0.0239		mg/L		95	73 - 127
Tetrachloroethene	0.0250	0.0284		mg/L		113	74 - 122
Trichloroethene	0.0250	0.0253		mg/L		101	74 - 123
Vinyl chloride	0.0250	0.0252		mg/L		101	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		77 - 120
4-Bromofluorobenzene (Surr)	104		73 - 120
Dibromofluoromethane (Surr)	108		75 - 123
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: LB 480-352308/1-A

Matrix: Solid

Analysis Batch: 352768

Client Sample ID: Method Blank

Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			04/19/17 11:17	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			04/19/17 11:17	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			04/19/17 11:17	10

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-116230-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB 480-352308/1-A

Matrix: Solid

Analysis Batch: 352768

Client Sample ID: Method Blank

Prep Type: TCLP

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.010	0.0041	mg/L			04/19/17 11:17	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			04/19/17 11:17	10
Chlorobenzene	ND		0.010	0.0075	mg/L			04/19/17 11:17	10
Chloroform	ND		0.010	0.0034	mg/L			04/19/17 11:17	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			04/19/17 11:17	10
Trichloroethene	ND		0.010	0.0046	mg/L			04/19/17 11:17	10
Vinyl chloride	ND		0.010	0.0090	mg/L			04/19/17 11:17	10
Surrogate	LB LB		Limits			Prepared	Analyzed	Dil Fac	
%Recovery	Qualifier								
1,2-Dichloroethane-d4 (Surr)	101		77 - 120				04/19/17 11:17	10	
4-Bromofluorobenzene (Surr)	106		73 - 120				04/19/17 11:17	10	
Dibromofluoromethane (Surr)	115		75 - 123				04/19/17 11:17	10	
Toluene-d8 (Surr)	96		80 - 120				04/19/17 11:17	10	

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-352505/1-A

Matrix: Solid

Analysis Batch: 352747

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 352505

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dichlorobenzene	ND		0.0025	0.00012	mg/L		04/18/17 08:19	04/19/17 10:16	1
2,4,5-Trichlorophenol	ND		0.0013	0.00012	mg/L		04/18/17 08:19	04/19/17 10:16	1
2,4,6-Trichlorophenol	ND		0.0013	0.00015	mg/L		04/18/17 08:19	04/19/17 10:16	1
2,4-Dinitrotoluene	ND		0.0013	0.00011	mg/L		04/18/17 08:19	04/19/17 10:16	1
2-Methylphenol	ND		0.0013	0.00010	mg/L		04/18/17 08:19	04/19/17 10:16	1
3-Methylphenol	ND		0.0025	0.00010	mg/L		04/18/17 08:19	04/19/17 10:16	1
4-Methylphenol	ND		0.0025	0.000090	mg/L		04/18/17 08:19	04/19/17 10:16	1
Hexachlorobenzene	ND		0.0013	0.00013	mg/L		04/18/17 08:19	04/19/17 10:16	1
Hexachlorobutadiene	ND		0.0013	0.00017	mg/L		04/18/17 08:19	04/19/17 10:16	1
Hexachloroethane	ND		0.0013	0.00015	mg/L		04/18/17 08:19	04/19/17 10:16	1
Nitrobenzene	ND		0.0013	0.000073	mg/L		04/18/17 08:19	04/19/17 10:16	1
Pentachlorophenol	ND		0.0025	0.00055	mg/L		04/18/17 08:19	04/19/17 10:16	1
Pyridine	ND		0.0063	0.00010	mg/L		04/18/17 08:19	04/19/17 10:16	1
Surrogate	MB MB		Limits			Prepared	Analyzed	Dil Fac	
%Recovery	Qualifier								
2,4,6-Tribromophenol (Surr)	72		41 - 120			04/18/17 08:19	04/19/17 10:16	1	
2-Fluorobiphenyl	84		48 - 120			04/18/17 08:19	04/19/17 10:16	1	
2-Fluorophenol (Surr)	46		35 - 120			04/18/17 08:19	04/19/17 10:16	1	
Nitrobenzene-d5 (Surr)	83		46 - 120			04/18/17 08:19	04/19/17 10:16	1	
Phenol-d5 (Surr)	34		22 - 120			04/18/17 08:19	04/19/17 10:16	1	
p-Terphenyl-d14 (Surr)	91		59 - 136			04/18/17 08:19	04/19/17 10:16	1	

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-116230-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-352505/2-A

Matrix: Solid

Analysis Batch: 352747

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 352505

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.0500	0.0290		mg/L		58	51 - 120
2,4,5-Trichlorophenol	0.0500	0.0444		mg/L		89	65 - 126
2,4,6-Trichlorophenol	0.0500	0.0438		mg/L		88	64 - 120
2,4-Dinitrotoluene	0.0500	0.0443		mg/L		89	69 - 120
2-Methylphenol	0.0500	0.0354		mg/L		71	39 - 120
3-Methylphenol	0.0500	0.0342		mg/L		68	39 - 120
4-Methylphenol	0.0500	0.0342		mg/L		68	29 - 131
Hexachlorobenzene	0.0500	0.0452		mg/L		90	61 - 120
Hexachlorobutadiene	0.0500	0.0311		mg/L		62	35 - 120
Hexachloroethane	0.0500	0.0265		mg/L		53	43 - 120
Nitrobenzene	0.0500	0.0402		mg/L		80	53 - 123
Pentachlorophenol	0.100	0.0900		mg/L		90	29 - 136
Pyridine	0.0500	0.0187		mg/L		37	10 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	92		41 - 120
2-Fluorobiphenyl	82		48 - 120
2-Fluorophenol (Surr)	45		35 - 120
Nitrobenzene-d5 (Surr)	78		46 - 120
Phenol-d5 (Surr)	33		22 - 120
p-Terphenyl-d14 (Surr)	89		59 - 136

Lab Sample ID: LCSD 480-352505/3-A

Matrix: Solid

Analysis Batch: 352747

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 352505

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.0500	0.0285		mg/L		57	51 - 120	2	36
2,4,5-Trichlorophenol	0.0500	0.0437		mg/L		87	65 - 126	2	18
2,4,6-Trichlorophenol	0.0500	0.0426		mg/L		85	64 - 120	3	19
2,4-Dinitrotoluene	0.0500	0.0456		mg/L		91	69 - 120	3	20
2-Methylphenol	0.0500	0.0350		mg/L		70	39 - 120	1	27
3-Methylphenol	0.0500	0.0340		mg/L		68	39 - 120	1	30
4-Methylphenol	0.0500	0.0340		mg/L		68	29 - 131	1	24
Hexachlorobenzene	0.0500	0.0456		mg/L		91	61 - 120	1	15
Hexachlorobutadiene	0.0500	0.0302		mg/L		60	35 - 120	3	44
Hexachloroethane	0.0500	0.0266		mg/L		53	43 - 120	0	46
Nitrobenzene	0.0500	0.0396		mg/L		79	53 - 123	1	24
Pentachlorophenol	0.100	0.0950		mg/L		95	29 - 136	5	37
Pyridine	0.0500	0.0189		mg/L		38	10 - 120	1	49

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	91		41 - 120
2-Fluorobiphenyl	79		48 - 120
2-Fluorophenol (Surr)	43		35 - 120
Nitrobenzene-d5 (Surr)	77		46 - 120
Phenol-d5 (Surr)	32		22 - 120

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-116230-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-352505/3-A
Matrix: Solid
Analysis Batch: 352747

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 352505

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
<i>p</i> -Terphenyl-d14 (Surr)	92		59 - 136

Lab Sample ID: LB 480-352304/1-B
Matrix: Solid
Analysis Batch: 352747

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 352505

Analyte	LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		04/18/17 08:19	04/19/17 11:35	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		04/18/17 08:19	04/19/17 11:35	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		04/18/17 08:19	04/19/17 11:35	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		04/18/17 08:19	04/19/17 11:35	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		04/18/17 08:19	04/19/17 11:35	1
3-Methylphenol	ND		0.010	0.00040	mg/L		04/18/17 08:19	04/19/17 11:35	1
4-Methylphenol	ND		0.010	0.00036	mg/L		04/18/17 08:19	04/19/17 11:35	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		04/18/17 08:19	04/19/17 11:35	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		04/18/17 08:19	04/19/17 11:35	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		04/18/17 08:19	04/19/17 11:35	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		04/18/17 08:19	04/19/17 11:35	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		04/18/17 08:19	04/19/17 11:35	1
Pyridine	ND		0.025	0.00041	mg/L		04/18/17 08:19	04/19/17 11:35	1

Surrogate	LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>2,4,6</i> -Tribromophenol (Surr)	77		41 - 120	04/18/17 08:19	04/19/17 11:35	1
<i>2</i> -Fluorobiphenyl	79		48 - 120	04/18/17 08:19	04/19/17 11:35	1
<i>2</i> -Fluorophenol (Surr)	44		35 - 120	04/18/17 08:19	04/19/17 11:35	1
<i>Nitrobenzene-d5</i> (Surr)	79		46 - 120	04/18/17 08:19	04/19/17 11:35	1
<i>Phenol-d5</i> (Surr)	32		22 - 120	04/18/17 08:19	04/19/17 11:35	1
<i>p</i> -Terphenyl-d14 (Surr)	96		59 - 136	04/18/17 08:19	04/19/17 11:35	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-352015/1-A
Matrix: Solid
Analysis Batch: 352061

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 352015

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		0.20	0.039	mg/Kg		04/14/17 09:45	04/14/17 14:53	1
PCB-1221	ND		0.20	0.039	mg/Kg		04/14/17 09:45	04/14/17 14:53	1
PCB-1232	ND		0.20	0.039	mg/Kg		04/14/17 09:45	04/14/17 14:53	1
PCB-1242	ND		0.20	0.039	mg/Kg		04/14/17 09:45	04/14/17 14:53	1
PCB-1248	ND		0.20	0.039	mg/Kg		04/14/17 09:45	04/14/17 14:53	1
PCB-1254	ND		0.20	0.092	mg/Kg		04/14/17 09:45	04/14/17 14:53	1
PCB-1260	ND		0.20	0.092	mg/Kg		04/14/17 09:45	04/14/17 14:53	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>Tetrachloro-m-xylene</i>	104		60 - 154	04/14/17 09:45	04/14/17 14:53	1
<i>DCB Decachlorobiphenyl</i>	115		65 - 174	04/14/17 09:45	04/14/17 14:53	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-116230-1

Lab Sample ID: LCS 480-352015/2-A
Matrix: Solid
Analysis Batch: 352061

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 352015

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
PCB-1016	1.74	1.93		mg/Kg		111	51 - 185	
PCB-1260	1.74	2.07		mg/Kg		119	61 - 184	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	114		60 - 154
DCB Decachlorobiphenyl	131		65 - 174

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-352552/2-A
Matrix: Solid
Analysis Batch: 352824

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 352552

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.015	0.0056	mg/L		04/18/17 10:23	04/18/17 21:50	1
Barium	ND		1.0	0.10	mg/L		04/18/17 10:23	04/18/17 21:50	1
Cadmium	ND		0.0020	0.00050	mg/L		04/18/17 10:23	04/18/17 21:50	1
Chromium	ND		0.020	0.010	mg/L		04/18/17 10:23	04/18/17 21:50	1
Lead	ND		0.020	0.0030	mg/L		04/18/17 10:23	04/18/17 21:50	1
Selenium	ND		0.025	0.0087	mg/L		04/18/17 10:23	04/18/17 21:50	1
Silver	ND		0.0060	0.0017	mg/L		04/18/17 10:23	04/18/17 21:50	1

Lab Sample ID: LCS 480-352552/3-A
Matrix: Solid
Analysis Batch: 352824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 352552

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Arsenic	1.00	1.14		mg/L		114	80 - 120	
Barium	1.00	0.993	J	mg/L		99	80 - 120	
Cadmium	1.00	1.11		mg/L		111	80 - 120	
Chromium	1.00	1.02		mg/L		102	80 - 120	
Lead	1.00	1.03		mg/L		103	80 - 120	
Selenium	1.00	1.06		mg/L		106	80 - 120	
Silver	1.00	1.06		mg/L		106	80 - 120	

Lab Sample ID: LB 480-352304/1-C
Matrix: Solid
Analysis Batch: 352824

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 352552

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.015	0.0056	mg/L		04/18/17 10:23	04/18/17 21:46	1
Barium	ND		1.0	0.10	mg/L		04/18/17 10:23	04/18/17 21:46	1
Cadmium	ND		0.0020	0.00050	mg/L		04/18/17 10:23	04/18/17 21:46	1
Chromium	ND		0.020	0.010	mg/L		04/18/17 10:23	04/18/17 21:46	1
Lead	0.00479	J	0.020	0.0030	mg/L		04/18/17 10:23	04/18/17 21:46	1
Selenium	ND		0.025	0.0087	mg/L		04/18/17 10:23	04/18/17 21:46	1
Silver	ND		0.0060	0.0017	mg/L		04/18/17 10:23	04/18/17 21:46	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-116230-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-116230-1 MS

Matrix: Solid

Analysis Batch: 352824

Client Sample ID: WC-19

Prep Type: TCLP

Prep Batch: 352552

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Arsenic	0.011	J	1.00	1.14		mg/L		113	75 - 125	
Barium	0.81	J	1.00	1.73		mg/L		91	75 - 125	
Cadmium	0.0061		1.00	1.12		mg/L		112	75 - 125	
Chromium	ND		1.00	0.971		mg/L		97	75 - 125	
Lead	0.049	B	1.00	1.06		mg/L		101	75 - 125	
Selenium	ND		1.00	1.05		mg/L		105	75 - 125	
Silver	ND		1.00	1.06		mg/L		106	75 - 125	

Lab Sample ID: 480-116230-1 MSD

Matrix: Solid

Analysis Batch: 352824

Client Sample ID: WC-19

Prep Type: TCLP

Prep Batch: 352552

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.	Limits	RPD	
	Result	Qualifier		Result	Qualifier						RPD	Limit
Arsenic	0.011	J	1.00	1.18		mg/L		117	75 - 125	3	20	
Barium	0.81	J	1.00	1.77		mg/L		96	75 - 125	3	20	
Cadmium	0.0061		1.00	1.15		mg/L		115	75 - 125	3	20	
Chromium	ND		1.00	0.980		mg/L		98	75 - 125	1	20	
Lead	0.049	B	1.00	1.09		mg/L		104	75 - 125	2	20	
Selenium	ND		1.00	1.07		mg/L		107	75 - 125	2	20	
Silver	ND		1.00	1.08		mg/L		108	75 - 125	2	20	

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-352579/2-A

Matrix: Solid

Analysis Batch: 352645

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 352579

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.00020	0.00012	mg/L		04/18/17 11:00	04/18/17 13:59	1

Lab Sample ID: LCS 480-352579/3-A

Matrix: Solid

Analysis Batch: 352645

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 352579

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
Mercury	0.00668	0.00697		mg/L		104	80 - 120	

Lab Sample ID: LB 480-352304/1-D

Matrix: Solid

Analysis Batch: 352645

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 352579

Analyte	LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.000168	J	0.00020	0.00012	mg/L		04/18/17 11:00	04/18/17 13:56	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-116230-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 480-116230-1 MS
Matrix: Solid
Analysis Batch: 352645

Client Sample ID: WC-19
Prep Type: TCLP
Prep Batch: 352579

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00668	0.00700		mg/L		105	80 - 120

Lab Sample ID: 480-116230-1 MSD
Matrix: Solid
Analysis Batch: 352645

Client Sample ID: WC-19
Prep Type: TCLP
Prep Batch: 352579

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00668	0.00692		mg/L		104	80 - 120	1	20

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-352127/1
Matrix: Solid
Analysis Batch: 352127

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	83.00		Degrees F		102	97.5 - 102.5

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-352575/1-A
Matrix: Solid
Analysis Batch: 352661

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 352575

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10.0	10.0	mg/Kg		04/18/17 02:35	04/18/17 13:48	1

Lab Sample ID: LCS 480-352575/2-A
Matrix: Solid
Analysis Batch: 352661

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 352575

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Reactive	1000	355.0		mg/Kg		36	10 - 100

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-352583/1-A
Matrix: Solid
Analysis Batch: 352619

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 352583

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		10.0	10.0	mg/Kg		04/18/17 02:35	04/18/17 11:30	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-116230-1

Method: 9034 - Sulfide, Reactive (Continued)

Lab Sample ID: LCS 480-352583/2-A
Matrix: Solid
Analysis Batch: 352619

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 352583

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide, Reactive	830	691.3		mg/Kg		83	10 - 100

Method: 9045D - pH

Lab Sample ID: LCS 480-352705/1
Matrix: Solid
Analysis Batch: 352705

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		101	99 - 101

Method: 9095B - Paint Filter

Lab Sample ID: 480-116230-1 DU
Matrix: Solid
Analysis Batch: 352707

Client Sample ID: WC-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Free Liquid	Passed		Passed		mL/100g		NC	

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-116230-1

GC/MS VOA

Leach Batch: 352308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116230-1	WC-19	TCLP	Solid	1311	
LB 480-352308/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 352768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116230-1	WC-19	TCLP	Solid	8260C	352308
LB 480-352308/1-A	Method Blank	TCLP	Solid	8260C	352308
MB 480-352768/6	Method Blank	Total/NA	Solid	8260C	
LCS 480-352768/4	Lab Control Sample	Total/NA	Solid	8260C	

GC/MS Semi VOA

Leach Batch: 352304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116230-1	WC-19	TCLP	Solid	1311	
LB 480-352304/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 352505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116230-1	WC-19	TCLP	Solid	3510C	352304
LB 480-352304/1-B	Method Blank	TCLP	Solid	3510C	352304
MB 480-352505/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-352505/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-352505/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 352747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116230-1	WC-19	TCLP	Solid	8270D	352505
LB 480-352304/1-B	Method Blank	TCLP	Solid	8270D	352505
MB 480-352505/1-A	Method Blank	Total/NA	Solid	8270D	352505
LCS 480-352505/2-A	Lab Control Sample	Total/NA	Solid	8270D	352505
LCSD 480-352505/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	352505

GC Semi VOA

Prep Batch: 352015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116230-1	WC-19	Total/NA	Solid	3550C	
MB 480-352015/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-352015/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 352061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116230-1	WC-19	Total/NA	Solid	8082A	352015
MB 480-352015/1-A	Method Blank	Total/NA	Solid	8082A	352015
LCS 480-352015/2-A	Lab Control Sample	Total/NA	Solid	8082A	352015

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-116230-1

Metals

Leach Batch: 352304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116230-1	WC-19	TCLP	Solid	1311	
LB 480-352304/1-C	Method Blank	TCLP	Solid	1311	
LB 480-352304/1-D	Method Blank	TCLP	Solid	1311	
480-116230-1 MS	WC-19	TCLP	Solid	1311	
480-116230-1 MSD	WC-19	TCLP	Solid	1311	

Prep Batch: 352552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116230-1	WC-19	TCLP	Solid	3010A	352304
LB 480-352304/1-C	Method Blank	TCLP	Solid	3010A	352304
MB 480-352552/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 480-352552/3-A	Lab Control Sample	Total/NA	Solid	3010A	
480-116230-1 MS	WC-19	TCLP	Solid	3010A	352304
480-116230-1 MSD	WC-19	TCLP	Solid	3010A	352304

Prep Batch: 352579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116230-1	WC-19	TCLP	Solid	7470A	352304
LB 480-352304/1-D	Method Blank	TCLP	Solid	7470A	352304
MB 480-352579/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 480-352579/3-A	Lab Control Sample	Total/NA	Solid	7470A	
480-116230-1 MS	WC-19	TCLP	Solid	7470A	352304
480-116230-1 MSD	WC-19	TCLP	Solid	7470A	352304

Analysis Batch: 352645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116230-1	WC-19	TCLP	Solid	7470A	352579
LB 480-352304/1-D	Method Blank	TCLP	Solid	7470A	352579
MB 480-352579/2-A	Method Blank	Total/NA	Solid	7470A	352579
LCS 480-352579/3-A	Lab Control Sample	Total/NA	Solid	7470A	352579
480-116230-1 MS	WC-19	TCLP	Solid	7470A	352579
480-116230-1 MSD	WC-19	TCLP	Solid	7470A	352579

Analysis Batch: 352824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116230-1	WC-19	TCLP	Solid	6010C	352552
LB 480-352304/1-C	Method Blank	TCLP	Solid	6010C	352552
MB 480-352552/2-A	Method Blank	Total/NA	Solid	6010C	352552
LCS 480-352552/3-A	Lab Control Sample	Total/NA	Solid	6010C	352552
480-116230-1 MS	WC-19	TCLP	Solid	6010C	352552
480-116230-1 MSD	WC-19	TCLP	Solid	6010C	352552

General Chemistry

Analysis Batch: 352127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116230-1	WC-19	Total/NA	Solid	1010A	
LCS 480-352127/1	Lab Control Sample	Total/NA	Solid	1010A	

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
 Project/Site: Flexo Transparent

TestAmerica Job ID: 480-116230-1

General Chemistry (Continued)

Analysis Batch: 352167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116230-1	WC-19	Total/NA	Solid	Moisture	

Prep Batch: 352575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116230-1	WC-19	Total/NA	Solid	7.3.3	
MB 480-352575/1-A	Method Blank	Total/NA	Solid	7.3.3	
LCS 480-352575/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	

Prep Batch: 352583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116230-1	WC-19	Total/NA	Solid	7.3.4	
MB 480-352583/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 480-352583/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	

Analysis Batch: 352619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116230-1	WC-19	Total/NA	Solid	9034	352583
MB 480-352583/1-A	Method Blank	Total/NA	Solid	9034	352583
LCS 480-352583/2-A	Lab Control Sample	Total/NA	Solid	9034	352583

Analysis Batch: 352661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116230-1	WC-19	Total/NA	Solid	9012	352575
MB 480-352575/1-A	Method Blank	Total/NA	Solid	9012	352575
LCS 480-352575/2-A	Lab Control Sample	Total/NA	Solid	9012	352575

Analysis Batch: 352705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116230-1	WC-19	Total/NA	Solid	9045D	
LCS 480-352705/1	Lab Control Sample	Total/NA	Solid	9045D	

Analysis Batch: 352707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116230-1	WC-19	Total/NA	Solid	9095B	
480-116230-1 DU	WC-19	Total/NA	Solid	9095B	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-116230-1

Client Sample ID: WC-19

Date Collected: 04/13/17 15:00

Date Received: 04/13/17 16:30

Lab Sample ID: 480-116230-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			352308	04/17/17 09:40	MAS	TAL BUF
TCLP	Analysis	8260C		10	352768	04/19/17 13:05	LCH	TAL BUF
TCLP	Leach	1311			352304	04/17/17 09:25	MAS	TAL BUF
TCLP	Prep	3510C			352505	04/18/17 08:19	NMC	TAL BUF
TCLP	Analysis	8270D		1	352747	04/19/17 09:50	LMW	TAL BUF
TCLP	Leach	1311			352304	04/17/17 09:25	MAS	TAL BUF
TCLP	Prep	3010A			352552	04/18/17 10:23	MVZ	TAL BUF
TCLP	Analysis	6010C		1	352824	04/18/17 22:01	LMH	TAL BUF
TCLP	Leach	1311			352304	04/17/17 09:25	MAS	TAL BUF
TCLP	Prep	7470A			352579	04/18/17 11:00	JRK	TAL BUF
TCLP	Analysis	7470A		1	352645	04/18/17 14:04	JRK	TAL BUF
Total/NA	Analysis	1010A		1	352127	04/14/17 09:45	LAW	TAL BUF
Total/NA	Prep	7.3.3			352575	04/18/17 02:35	LAW	TAL BUF
Total/NA	Analysis	9012		1	352661	04/18/17 13:48	MDL	TAL BUF
Total/NA	Prep	7.3.4			352583	04/18/17 02:35	LAW	TAL BUF
Total/NA	Analysis	9034		1	352619	04/18/17 11:30	LAW	TAL BUF
Total/NA	Analysis	9045D		1	352705	04/18/17 20:14	DSC	TAL BUF
Total/NA	Analysis	9095B		1	352707	04/19/17 00:48	DSC	TAL BUF
Total/NA	Analysis	Moisture		1	352167	04/14/17 20:59	CMK	TAL BUF

Client Sample ID: WC-19

Date Collected: 04/13/17 15:00

Date Received: 04/13/17 16:30

Lab Sample ID: 480-116230-1

Matrix: Solid

Percent Solids: 67.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			352015	04/14/17 09:45	MAS	TAL BUF
Total/NA	Analysis	8082A		1	352061	04/14/17 19:44	JMO	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-116230-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
9012	7.3.3	Solid	Cyanide, Reactive
9034	7.3.4	Solid	Sulfide, Reactive
9045D		Solid	Temperature
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-116230-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
9045D	pH	SW846	TAL BUF
9095B	Paint Filter	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-116230-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-116230-1	WC-19	Solid	04/13/17 15:00	04/13/17 16:30

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Temperature on Receipt Yes No

Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1007)

Client ARCADIS		Project Manager Kate Coburn		Date 4/13/17	Chain of Custody Number 250686
Address 50 Lanteh Plaza Suite 600		Telephone Number (Area Code)/Fax Number 716-667-6637		Lab Number	Page 1 of 1
City Rochester	State NY	Zip Code 14202	Site Contact J. Baster	Lab Contact Melba Dero	
Project Name and Location (State) Flexo Transport NY		Carrier/Waybill Number Dep off			
Contract/Purchase Order/Quote No. 06105002.006					

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/Conditions of Receipt			
			Air	Aqueous	Soil	Sed.	Soil	Umpres.	H2SO4	HNO3	HCl	NaOH			ZnAc		
WC-19	4/13/17	15:00			X						X	X	X	X	X		
														X	X	X	
															X	X	X
															X	X	X
															X	X	X
															X	X	X
															X	X	X
															X	X	X
												X	X	X			

480-116230 COC

Sample Disposal
 Return to Client Disposal By Lab Archive For _____ Months longer than 1 month

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Turn Around Time Required
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **4 Day**

QC Requirements (Specify)
 1. Relinquished By **Jeff Brandt** Date **4/13/17** Time **16:30**
 2. Relinquished By **Callan** Date **4/13/17** Time **16:30**
 3. Relinquished By _____ Date _____ Time _____

Comments
29 A

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-116230-1

Login Number: 116230

List Number: 1

Creator: Janish, Carl M

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
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 sample IDs on the containers 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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	





Requested Facility: CHAFFEE LANDFILL Unsure Profile Number: _____
 Multiple Generator Locations (Attach Locations) Request Certificate of Disposal Renewal? Original Profile Number: _____

A. GENERATOR INFORMATION (MATERIAL ORIGIN)

1. Generator Name: Flexo Transparent, LLC
2. Site Address: 1146 Seneca Street
(City, State, ZIP) Buffalo, NY 14210
3. County: Erie
4. Contact Name: Tom Neuman
5. Email: tneuman@flexotransparent.com
6. Phone: 716-541-0135 7. Fax: 716-541-0625
8. Generator EPA ID: _____ N/A
9. State ID: _____ N/A

B. BILLING INFORMATION SAME AS GENERATOR

1. Billing Name: Pinto Construction Services, Inc.
2. Billing Address: 1 Babcock Street
(City, State, ZIP) Buffalo, NY 14210
3. Contact Name: Robert Broomfield
4. Email: rbroomfield@pintoheavyconst.com
5. Phone: 716-622-8412 6. Fax: 716-825-6773
7. WM Hauled? Yes No
8. P.O. Number: _____
9. Payment Method: Credit Account Cash Credit Card

C. MATERIAL INFORMATION

1. Common Name: Non-RCRA regulated petroleum impacted soil
Describe Process Generating Material: See Attached

Excess soil generated during construction and expansion activities. Source area may have historically operated as a Gulf Oil filling station. Clean-up at the Site is regulated under the NYSDEC voluntary Brownsfield Cleanup Program.

2. Material Composition and Contaminants: See Attached

1. soil	80-95%
2. sand	1-10%
3. clay/stone	1-5%
4. metal, wood, brick, small chunks of concrete	1-5%
Total composition must be equal to or greater than 100%	≥100%

3. State Waste Codes: _____ N/A
4. Color: brown
5. Physical State at 70°F: Solid Liquid Other: _____
6. Free Liquid Range Percentage: _____ to _____ N/A
7. pH: 8.1 to 8.1 N/A
8. Strong Odor: Yes No Describe: faint gasoline-like odor
9. Flash Point: <140°F 140°-199°F ≥200°F N/A
>176 F

D. REGULATORY INFORMATION

1. EPA Hazardous Waste? Yes* No
Code: _____
2. State Hazardous Waste? Yes No
Code: _____
3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion? Yes* No
4. Contains Underlying Hazardous Constituents? Yes* No
5. Contains benzene and subject to Benzene NESHAP? Yes* No
6. Facility remediation subject to 40 CFR 63 GGGGG? Yes* No
7. CERCLA or State-mandated clean-up? Yes* No
8. NRC or State-regulated radioactive or NORM waste? Yes* No
***If Yes, see Addendum (page 2) for additional questions and space.**
9. Contains PCBs? → If Yes, answer a, b and c. Yes No
a. Regulated by 40 CFR 761? Yes No
b. Remediation under 40 CFR 761.61 (a)? Yes No
c. Were PCB imported into the US? Yes No
10. Regulated and/or Untreated Medical/Infectious Waste? Yes No
11. Contains Asbestos? Yes No
→ If Yes: Non-Friable Non-Friable - Regulated Friable

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION

1. Analytical attached Yes
Please identify applicable samples and/or lab reports:

Client Project/Site: Flexo Transparent
TestAmerica Job ID: 480-119784-1
Sample ID: WC-21 20170619
Sample Collection Date: June 19, 2017

2. Other information attached (such as MSDS)? Yes

F. SHIPPING AND DOT INFORMATION

1. One-Time Event Repeat Event/Ongoing Business
2. Estimated Quantity/Unit of Measure: 450 tons
 Tons Yards Drums Gallons Other: _____
3. Container Type and Size: dump truck
4. USDOT Proper Shipping Name: _____ N/A
Non-RCRA Non-DOT Solids, N.O.S (petroleum impacted soil)

G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)

By signing this EZ Profile™ form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytical) will be identified by the Generator and be disclosed to Waste Management prior to providing the material to Waste Management.

If I am an agent signing on behalf of the Generator, I have confirmed with the Generator that information contained in this Profile is accurate and complete.

Name (Print): Ben Girard Date: 7/5/2017
Title: Project Manager
Company: Arcadis of New York, Inc. on

Certification Signature

behalf of Flexo Transparent, LLC
THINK GREEN®

Flexo Transparent Site History

The Site comprises three adjacent properties located at 1122, 1132, and 1146 Seneca Street, Buffalo, New York. Under the voluntary New York State Brownfield Cleanup Program (BCP), Flexo is redeveloping the Site for expansion of their current business, which involves the manufacture of plastic wraps and bags for food and other product packaging. Historical usage of the Site properties includes a former electrical transformer manufacturing facility on the west (1122 and 1132 Seneca Street) and former brick and lumber manufacturing facilities (now vacant land) on the east (1146 Seneca Street).

During excavation for the purpose of installation of a water line, photoionization detector (PID) readings above background levels were encountered in the vicinity of previously unknown abandoned vent or distribution piping assumed to have been previously connected to an underground storage tank (UST). A UST was not encountered within the excavation. Review of a 2012 Phase I indicates that the excavation area on the 1146 property may have also historically operated as a Gulf Oil filling station as shown on a 1940 Sanborn Map. It is assumed, but not confirmed, that the PID readings are associated with potential historical petroleum impacts from a former filling station. The excavation material has a faint gasoline-like odor. Concentrations and constituents of source impacts cannot be confirmed based on available information.

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-119784-1

Client Project/Site: Flexo Transparent

For:

ARCADIS U.S. Inc

50 Fountain Plaza

Suite 600

Buffalo, New York 14202

Attn: Katherine Clubine



Authorized for release by:

6/27/2017 12:09:11 PM

Rebecca Jones, Project Management Assistant I

rebecca.jones@testamericainc.com

Designee for

Melissa Deyo, Project Manager I

(716)504-9874

melissa.deyo@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Job ID: 480-119784-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-119784-1

Receipt

The sample was received on 6/19/2017 2:30 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-363767 recovered outside acceptance criteria, low biased, for 1,2-Dichloroethane and 2-Butanone (MEK). A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following sample is impacted: WC-21 20170619 (480-119784-1).

Method(s) 8260C: The following samples was diluted due to the nature of the TCLP matrix: WC-21 20170619 (480-119784-1) and (LB 480-363404/1-A). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA

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

GC Semi VOA

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

Metals

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

General Chemistry

Method(s) 9012: The continuing calibration verification (CCV) associated with batch 480-364038 recovered above the upper control limit for Cyanide, Reactive. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. (CCV 480-364038/22)

Method(s) 9045C, 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: WC-21 20170619 (480-119784-1).

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

Organic Prep

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-363663.

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

Detection Summary

Client: ARCADIS U.S. Inc
 Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Client Sample ID: WC-21 20170619

Lab Sample ID: 480-119784-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	passed				mL/100g	1		9095B	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0067	J B	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	0.95	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0014	J	0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.0087	J	0.020	0.0030	mg/L	1		6010C	TCLP
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176.0		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	8.1	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	21.0	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo



Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Client Sample ID: WC-21 20170619

Lab Sample ID: 480-119784-1

Date Collected: 06/19/17 11:30

Matrix: Solid

Date Received: 06/19/17 14:30

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			06/24/17 06:27	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			06/24/17 06:27	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			06/24/17 06:27	10
Benzene	ND		0.010	0.0041	mg/L			06/24/17 06:27	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			06/24/17 06:27	10
Chlorobenzene	ND		0.010	0.0075	mg/L			06/24/17 06:27	10
Chloroform	ND		0.010	0.0034	mg/L			06/24/17 06:27	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			06/24/17 06:27	10
Trichloroethene	ND		0.010	0.0046	mg/L			06/24/17 06:27	10
Vinyl chloride	ND		0.010	0.0090	mg/L			06/24/17 06:27	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		77 - 120		06/24/17 06:27	10
4-Bromofluorobenzene (Surr)	102		73 - 120		06/24/17 06:27	10
Dibromofluoromethane (Surr)	97		75 - 123		06/24/17 06:27	10
Toluene-d8 (Surr)	97		80 - 120		06/24/17 06:27	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		06/23/17 11:19	06/26/17 13:08	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		06/23/17 11:19	06/26/17 13:08	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		06/23/17 11:19	06/26/17 13:08	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		06/23/17 11:19	06/26/17 13:08	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		06/23/17 11:19	06/26/17 13:08	1
3-Methylphenol	ND		0.010	0.00040	mg/L		06/23/17 11:19	06/26/17 13:08	1
4-Methylphenol	ND		0.010	0.00036	mg/L		06/23/17 11:19	06/26/17 13:08	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		06/23/17 11:19	06/26/17 13:08	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		06/23/17 11:19	06/26/17 13:08	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		06/23/17 11:19	06/26/17 13:08	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		06/23/17 11:19	06/26/17 13:08	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		06/23/17 11:19	06/26/17 13:08	1
Pyridine	ND		0.025	0.00041	mg/L		06/23/17 11:19	06/26/17 13:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	93		41 - 120	06/23/17 11:19	06/26/17 13:08	1
2-Fluorobiphenyl	88		48 - 120	06/23/17 11:19	06/26/17 13:08	1
2-Fluorophenol (Surr)	53		35 - 120	06/23/17 11:19	06/26/17 13:08	1
Nitrobenzene-d5 (Surr)	86		46 - 120	06/23/17 11:19	06/26/17 13:08	1
Phenol-d5 (Surr)	35		22 - 120	06/23/17 11:19	06/26/17 13:08	1
p-Terphenyl-d14 (Surr)	83		59 - 136	06/23/17 11:19	06/26/17 13:08	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0067	J B	0.015	0.0056	mg/L		06/23/17 11:30	06/26/17 13:18	1
Barium	0.95	J	1.0	0.10	mg/L		06/23/17 11:30	06/26/17 13:18	1
Cadmium	0.0014	J	0.0020	0.00050	mg/L		06/23/17 11:30	06/26/17 13:18	1
Chromium	ND		0.020	0.010	mg/L		06/23/17 11:30	06/26/17 13:18	1
Lead	0.0087	J	0.020	0.0030	mg/L		06/23/17 11:30	06/26/17 13:18	1
Selenium	ND		0.025	0.0087	mg/L		06/23/17 11:30	06/26/17 13:18	1
Silver	ND		0.0060	0.0017	mg/L		06/23/17 11:30	06/26/17 13:18	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Client Sample ID: WC-21 20170619

Lab Sample ID: 480-119784-1

Date Collected: 06/19/17 11:30

Matrix: Solid

Date Received: 06/19/17 14:30

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		06/23/17 12:00	06/23/17 16:23	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	passed				mL/100g			06/20/17 19:40	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176.0		50.0	50.0	Degrees F			06/24/17 17:18	1
Cyanide, Reactive	ND	^	10	10	mg/Kg		06/26/17 02:20	06/26/17 14:35	1
Sulfide, Reactive	ND		10	10	mg/Kg		06/26/17 02:20	06/26/17 15:40	1
pH	8.1	HF	0.1	0.1	SU			06/21/17 07:43	1
Temperature	21.0	HF	0.001	0.001	Degrees C			06/21/17 07:43	1

Client Sample ID: WC-21 20170619

Lab Sample ID: 480-119784-1

Date Collected: 06/19/17 11:30

Matrix: Solid

Date Received: 06/19/17 14:30

Percent Solids: 87.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.047	mg/Kg	☼	06/21/17 16:10	06/22/17 06:00	1
PCB-1221	ND		0.24	0.047	mg/Kg	☼	06/21/17 16:10	06/22/17 06:00	1
PCB-1232	ND		0.24	0.047	mg/Kg	☼	06/21/17 16:10	06/22/17 06:00	1
PCB-1242	ND		0.24	0.047	mg/Kg	☼	06/21/17 16:10	06/22/17 06:00	1
PCB-1248	ND		0.24	0.047	mg/Kg	☼	06/21/17 16:10	06/22/17 06:00	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	06/21/17 16:10	06/22/17 06:00	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	06/21/17 16:10	06/22/17 06:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	122		60 - 154	06/21/17 16:10	06/22/17 06:00	1
DCB Decachlorobiphenyl	129		65 - 174	06/21/17 16:10	06/22/17 06:00	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
LCS 480-363767/4	Lab Control Sample	80	98	97	96
MB 480-363767/7	Method Blank	81	102	94	96

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-119784-1	WC-21 20170619	80	102	97	97
LB 480-363404/1-A	Method Blank	84	100	99	98

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (41-120)	FBP (48-120)	2FP (35-120)	NBZ (46-120)	PHL (22-120)	TPH (59-136)
LCS 480-363663/2-A	Lab Control Sample	112	96	55	86	39	93
LCSD 480-363663/3-A	Lab Control Sample Dup	109	96	56	89	39	95
MB 480-363663/1-A	Method Blank	93	85	44	77	30	87

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = p-Terphenyl-d14 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (41-120)	FBP (48-120)	2FP (35-120)	NBZ (46-120)	PHL (22-120)	TPH (59-136)
480-119784-1	WC-21 20170619	93	88	53	86	35	83
LB 480-363396/1-C	Method Blank	95	91	52	88	36	91

TestAmerica Buffalo

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = p-Terphenyl-d14 (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (60-154)	DCB1 (65-174)
480-119784-1	WC-21 20170619	122	129
480-119784-1 MS	WC-21 20170619	126	121
480-119784-1 MSD	WC-21 20170619	137	131
LCS 480-363250/2-A	Lab Control Sample	133	129
MB 480-363250/1-A	Method Blank	120	123

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-363767/7

Matrix: Solid

Analysis Batch: 363767

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			06/23/17 22:58	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			06/23/17 22:58	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			06/23/17 22:58	1
Benzene	ND		0.0010	0.00041	mg/L			06/23/17 22:58	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			06/23/17 22:58	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			06/23/17 22:58	1
Chloroform	ND		0.0010	0.00034	mg/L			06/23/17 22:58	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			06/23/17 22:58	1
Trichloroethene	ND		0.0010	0.00046	mg/L			06/23/17 22:58	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			06/23/17 22:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		77 - 120		06/23/17 22:58	1
4-Bromofluorobenzene (Surr)	102		73 - 120		06/23/17 22:58	1
Dibromofluoromethane (Surr)	94		75 - 123		06/23/17 22:58	1
Toluene-d8 (Surr)	96		80 - 120		06/23/17 22:58	1

Lab Sample ID: LCS 480-363767/4

Matrix: Solid

Analysis Batch: 363767

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0250	0.0225		mg/L		90	66 - 127
1,2-Dichloroethane	0.0250	0.0199		mg/L		80	75 - 120
2-Butanone (MEK)	0.125	0.0896		mg/L		72	57 - 140
Benzene	0.0250	0.0253		mg/L		101	71 - 124
Carbon tetrachloride	0.0250	0.0229		mg/L		91	72 - 134
Chlorobenzene	0.0250	0.0252		mg/L		101	80 - 120
Chloroform	0.0250	0.0234		mg/L		94	73 - 127
Tetrachloroethene	0.0250	0.0242		mg/L		97	74 - 122
Trichloroethene	0.0250	0.0241		mg/L		97	74 - 123
Vinyl chloride	0.0250	0.0216		mg/L		86	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	80		77 - 120
4-Bromofluorobenzene (Surr)	98		73 - 120
Dibromofluoromethane (Surr)	97		75 - 123
Toluene-d8 (Surr)	96		80 - 120

Lab Sample ID: LB 480-363404/1-A

Matrix: Solid

Analysis Batch: 363767

Client Sample ID: Method Blank

Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			06/23/17 23:52	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			06/23/17 23:52	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			06/23/17 23:52	10

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB 480-363404/1-A
Matrix: Solid
Analysis Batch: 363767

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.010	0.0041	mg/L			06/23/17 23:52	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			06/23/17 23:52	10
Chlorobenzene	ND		0.010	0.0075	mg/L			06/23/17 23:52	10
Chloroform	ND		0.010	0.0034	mg/L			06/23/17 23:52	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			06/23/17 23:52	10
Trichloroethene	ND		0.010	0.0046	mg/L			06/23/17 23:52	10
Vinyl chloride	ND		0.010	0.0090	mg/L			06/23/17 23:52	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		77 - 120					06/23/17 23:52	10
4-Bromofluorobenzene (Surr)	100		73 - 120					06/23/17 23:52	10
Dibromofluoromethane (Surr)	99		75 - 123					06/23/17 23:52	10
Toluene-d8 (Surr)	98		80 - 120					06/23/17 23:52	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-363663/1-A
Matrix: Solid
Analysis Batch: 363970

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363663

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dichlorobenzene	ND		0.0025	0.00012	mg/L		06/23/17 11:19	06/26/17 13:34	1
2,4,5-Trichlorophenol	ND		0.0013	0.00012	mg/L		06/23/17 11:19	06/26/17 13:34	1
2,4,6-Trichlorophenol	ND		0.0013	0.00015	mg/L		06/23/17 11:19	06/26/17 13:34	1
2,4-Dinitrotoluene	ND		0.0013	0.00011	mg/L		06/23/17 11:19	06/26/17 13:34	1
2-Methylphenol	ND		0.0013	0.00010	mg/L		06/23/17 11:19	06/26/17 13:34	1
3-Methylphenol	ND		0.0025	0.00010	mg/L		06/23/17 11:19	06/26/17 13:34	1
4-Methylphenol	ND		0.0025	0.000090	mg/L		06/23/17 11:19	06/26/17 13:34	1
Hexachlorobenzene	ND		0.0013	0.00013	mg/L		06/23/17 11:19	06/26/17 13:34	1
Hexachlorobutadiene	ND		0.0013	0.00017	mg/L		06/23/17 11:19	06/26/17 13:34	1
Hexachloroethane	ND		0.0013	0.00015	mg/L		06/23/17 11:19	06/26/17 13:34	1
Nitrobenzene	ND		0.0013	0.000073	mg/L		06/23/17 11:19	06/26/17 13:34	1
Pentachlorophenol	ND		0.0025	0.00055	mg/L		06/23/17 11:19	06/26/17 13:34	1
Pyridine	ND		0.0063	0.00010	mg/L		06/23/17 11:19	06/26/17 13:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	93		41 - 120				06/23/17 11:19	06/26/17 13:34	1
2-Fluorobiphenyl	85		48 - 120				06/23/17 11:19	06/26/17 13:34	1
2-Fluorophenol (Surr)	44		35 - 120				06/23/17 11:19	06/26/17 13:34	1
Nitrobenzene-d5 (Surr)	77		46 - 120				06/23/17 11:19	06/26/17 13:34	1
Phenol-d5 (Surr)	30		22 - 120				06/23/17 11:19	06/26/17 13:34	1
p-Terphenyl-d14 (Surr)	87		59 - 136				06/23/17 11:19	06/26/17 13:34	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-363663/2-A

Matrix: Solid

Analysis Batch: 363970

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 363663

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,4-Dichlorobenzene	0.0500	0.0376		mg/L		75	51 - 120
2,4,5-Trichlorophenol	0.0500	0.0529		mg/L		106	65 - 126
2,4,6-Trichlorophenol	0.0500	0.0513		mg/L		103	64 - 120
2,4-Dinitrotoluene	0.0500	0.0508		mg/L		102	69 - 120
2-Methylphenol	0.0500	0.0437		mg/L		87	39 - 120
3-Methylphenol	0.0500	0.0393		mg/L		79	39 - 120
4-Methylphenol	0.0500	0.0393		mg/L		79	29 - 131
Hexachlorobenzene	0.0500	0.0587		mg/L		117	61 - 120
Hexachlorobutadiene	0.0500	0.0384		mg/L		77	35 - 120
Hexachloroethane	0.0500	0.0369		mg/L		74	43 - 120
Nitrobenzene	0.0500	0.0463		mg/L		93	53 - 123
Pentachlorophenol	0.100	0.0918		mg/L		92	29 - 136
Pyridine	0.100	0.0610		mg/L		61	10 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	112		41 - 120
2-Fluorobiphenyl	96		48 - 120
2-Fluorophenol (Surr)	55		35 - 120
Nitrobenzene-d5 (Surr)	86		46 - 120
Phenol-d5 (Surr)	39		22 - 120
p-Terphenyl-d14 (Surr)	93		59 - 136

Lab Sample ID: LCSD 480-363663/3-A

Matrix: Solid

Analysis Batch: 363970

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 363663

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dichlorobenzene	0.0500	0.0332		mg/L		66	51 - 120	12	36
2,4,5-Trichlorophenol	0.0500	0.0511		mg/L		102	65 - 126	4	18
2,4,6-Trichlorophenol	0.0500	0.0505		mg/L		101	64 - 120	2	19
2,4-Dinitrotoluene	0.0500	0.0518		mg/L		104	69 - 120	2	20
2-Methylphenol	0.0500	0.0434		mg/L		87	39 - 120	1	27
3-Methylphenol	0.0500	0.0418		mg/L		84	39 - 120	6	30
4-Methylphenol	0.0500	0.0418		mg/L		84	29 - 131	6	24
Hexachlorobenzene	0.0500	0.0539		mg/L		108	61 - 120	9	15
Hexachlorobutadiene	0.0500	0.0344		mg/L		69	35 - 120	11	44
Hexachloroethane	0.0500	0.0312		mg/L		62	43 - 120	17	46
Nitrobenzene	0.0500	0.0454		mg/L		91	53 - 123	2	24
Pentachlorophenol	0.100	0.0874		mg/L		87	29 - 136	5	37
Pyridine	0.100	0.0603		mg/L		60	10 - 120	1	49

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	109		41 - 120
2-Fluorobiphenyl	96		48 - 120
2-Fluorophenol (Surr)	56		35 - 120
Nitrobenzene-d5 (Surr)	89		46 - 120
Phenol-d5 (Surr)	39		22 - 120

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-363663/3-A
Matrix: Solid
Analysis Batch: 363970

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 363663

Surrogate	LCS D %Recovery	LCS D Qualifier	Limits
<i>p</i> -Terphenyl-d14 (Surr)	95		59 - 136

Lab Sample ID: LB 480-363396/1-C
Matrix: Solid
Analysis Batch: 363970

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 363663

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		06/23/17 11:19	06/26/17 14:53	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		06/23/17 11:19	06/26/17 14:53	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		06/23/17 11:19	06/26/17 14:53	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		06/23/17 11:19	06/26/17 14:53	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		06/23/17 11:19	06/26/17 14:53	1
3-Methylphenol	ND		0.010	0.00040	mg/L		06/23/17 11:19	06/26/17 14:53	1
4-Methylphenol	ND		0.010	0.00036	mg/L		06/23/17 11:19	06/26/17 14:53	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		06/23/17 11:19	06/26/17 14:53	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		06/23/17 11:19	06/26/17 14:53	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		06/23/17 11:19	06/26/17 14:53	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		06/23/17 11:19	06/26/17 14:53	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		06/23/17 11:19	06/26/17 14:53	1
Pyridine	ND		0.025	0.00041	mg/L		06/23/17 11:19	06/26/17 14:53	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	95		41 - 120	06/23/17 11:19	06/26/17 14:53	1
2-Fluorobiphenyl	91		48 - 120	06/23/17 11:19	06/26/17 14:53	1
2-Fluorophenol (Surr)	52		35 - 120	06/23/17 11:19	06/26/17 14:53	1
Nitrobenzene-d5 (Surr)	88		46 - 120	06/23/17 11:19	06/26/17 14:53	1
Phenol-d5 (Surr)	36		22 - 120	06/23/17 11:19	06/26/17 14:53	1
<i>p</i> -Terphenyl-d14 (Surr)	91		59 - 136	06/23/17 11:19	06/26/17 14:53	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-363250/1-A
Matrix: Solid
Analysis Batch: 363263

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363250

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.038	mg/Kg		06/21/17 16:10	06/22/17 04:56	1
PCB-1221	ND		0.20	0.038	mg/Kg		06/21/17 16:10	06/22/17 04:56	1
PCB-1232	ND		0.20	0.038	mg/Kg		06/21/17 16:10	06/22/17 04:56	1
PCB-1242	ND		0.20	0.038	mg/Kg		06/21/17 16:10	06/22/17 04:56	1
PCB-1248	ND		0.20	0.038	mg/Kg		06/21/17 16:10	06/22/17 04:56	1
PCB-1254	ND		0.20	0.092	mg/Kg		06/21/17 16:10	06/22/17 04:56	1
PCB-1260	ND		0.20	0.092	mg/Kg		06/21/17 16:10	06/22/17 04:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	120		60 - 154	06/21/17 16:10	06/22/17 04:56	1
DCB Decachlorobiphenyl	123		65 - 174	06/21/17 16:10	06/22/17 04:56	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Lab Sample ID: LCS 480-363250/2-A
Matrix: Solid
Analysis Batch: 363263

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363250

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	1.85	2.47		mg/Kg		134	51 - 185
PCB-1260	1.85	2.42		mg/Kg		130	61 - 184
Surrogate	%Recovery	LCS Qualifier	Limits				
Tetrachloro-m-xylene	133		60 - 154				
DCB Decachlorobiphenyl	129		65 - 174				

Lab Sample ID: 480-119784-1 MS
Matrix: Solid
Analysis Batch: 363263

Client Sample ID: WC-21 20170619
Prep Type: Total/NA
Prep Batch: 363250

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
PCB-1016	ND		2.77	3.33		mg/Kg	☼	120	50 - 177
PCB-1260	ND		2.77	3.20		mg/Kg	☼	116	33 - 200
Surrogate	%Recovery	MS Qualifier	Limits						
Tetrachloro-m-xylene	126		60 - 154						
DCB Decachlorobiphenyl	121		65 - 174						

Lab Sample ID: 480-119784-1 MSD
Matrix: Solid
Analysis Batch: 363263

Client Sample ID: WC-21 20170619
Prep Type: Total/NA
Prep Batch: 363250

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
PCB-1016	ND		2.68	3.53		mg/Kg	☼	132	50 - 177	6	50
PCB-1260	ND		2.68	3.45		mg/Kg	☼	129	33 - 200	8	50
Surrogate	%Recovery	MSD Qualifier	Limits								
Tetrachloro-m-xylene	137		60 - 154								
DCB Decachlorobiphenyl	131		65 - 174								

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-363661/2-A
Matrix: Solid
Analysis Batch: 364022

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363661

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		06/23/17 11:30	06/26/17 12:34	1
Barium	ND		1.0	0.10	mg/L		06/23/17 11:30	06/26/17 12:34	1
Cadmium	ND		0.0020	0.00050	mg/L		06/23/17 11:30	06/26/17 12:34	1
Chromium	ND		0.020	0.010	mg/L		06/23/17 11:30	06/26/17 12:34	1
Lead	ND		0.020	0.0030	mg/L		06/23/17 11:30	06/26/17 12:34	1
Selenium	ND		0.025	0.0087	mg/L		06/23/17 11:30	06/26/17 12:34	1
Silver	ND		0.0060	0.0017	mg/L		06/23/17 11:30	06/26/17 12:34	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-363661/3-A
Matrix: Solid
Analysis Batch: 364022

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363661

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	1.00	1.10		mg/L		110	80 - 120
Barium	1.00	1.00		mg/L		100	80 - 120
Cadmium	1.00	1.09		mg/L		109	80 - 120
Chromium	1.00	1.02		mg/L		102	80 - 120
Lead	1.00	1.03		mg/L		103	80 - 120
Selenium	1.00	1.13		mg/L		113	80 - 120
Silver	1.00	1.11		mg/L		111	80 - 120

Lab Sample ID: LB 480-363396/1-B
Matrix: Solid
Analysis Batch: 364022

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 363661

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00837	J	0.015	0.0056	mg/L		06/23/17 11:30	06/26/17 12:31	1
Barium	ND		1.0	0.10	mg/L		06/23/17 11:30	06/26/17 12:31	1
Cadmium	ND		0.0020	0.00050	mg/L		06/23/17 11:30	06/26/17 12:31	1
Chromium	ND		0.020	0.010	mg/L		06/23/17 11:30	06/26/17 12:31	1
Lead	ND		0.020	0.0030	mg/L		06/23/17 11:30	06/26/17 12:31	1
Selenium	ND		0.025	0.0087	mg/L		06/23/17 11:30	06/26/17 12:31	1
Silver	ND		0.0060	0.0017	mg/L		06/23/17 11:30	06/26/17 12:31	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-363664/2-A
Matrix: Solid
Analysis Batch: 363974

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363664

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		06/23/17 12:00	06/23/17 16:08	1

Lab Sample ID: LCS 480-363664/3-A
Matrix: Solid
Analysis Batch: 363974

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00668	0.00578		mg/L		87	80 - 120

Lab Sample ID: LB 480-363396/1-D
Matrix: Solid
Analysis Batch: 363974

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 363664

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		06/23/17 12:00	06/23/17 16:06	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-363838/1
Matrix: Solid
Analysis Batch: 363838

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	82.00		Degrees F		101	97.5 - 102.5

Lab Sample ID: 480-119784-1 DU
Matrix: Solid
Analysis Batch: 363838

Client Sample ID: WC-21 20170619
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Flashpoint	>176.0		>176.0		Degrees F		NC	10

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-363982/1-A
Matrix: Solid
Analysis Batch: 364038

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363982

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10.0	10.0	mg/Kg		06/26/17 02:20	06/26/17 14:35	1

Lab Sample ID: LCS 480-363982/2-A
Matrix: Solid
Analysis Batch: 364038

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363982

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Reactive	1000	305.0		mg/Kg		31	10 - 100

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-363998/1-A
Matrix: Solid
Analysis Batch: 364040

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363998

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		10.0	10.0	mg/Kg		06/26/17 02:20	06/26/17 15:40	1

Lab Sample ID: LCS 480-363998/2-A
Matrix: Solid
Analysis Batch: 364040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363998

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide, Reactive	900	721.4		mg/Kg		80	10 - 100

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Method: 9045D - pH

Lab Sample ID: LCS 480-363238/1
 Matrix: Solid
 Analysis Batch: 363238

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

Lab Sample ID: 480-119784-1 DU
 Matrix: Solid
 Analysis Batch: 363238

Client Sample ID: WC-21 20170619
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.1	HF	8.2		SU		0.9	5
Temperature	21.0	HF	20.9		Degrees C		0.5	10

Method: 9095B - Paint Filter

Lab Sample ID: 480-119784-1 DU
 Matrix: Solid
 Analysis Batch: 363047

Client Sample ID: WC-21 20170619
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Free Liquid	passed		passed		mL/100g		NC	

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

GC/MS VOA

Leach Batch: 363404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	TCLP	Solid	1311	
LB 480-363404/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 363767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	TCLP	Solid	8260C	363404
LB 480-363404/1-A	Method Blank	TCLP	Solid	8260C	363404
MB 480-363767/7	Method Blank	Total/NA	Solid	8260C	
LCS 480-363767/4	Lab Control Sample	Total/NA	Solid	8260C	

GC/MS Semi VOA

Leach Batch: 363396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	TCLP	Solid	1311	
LB 480-363396/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 363663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	TCLP	Solid	3510C	363396
LB 480-363396/1-C	Method Blank	TCLP	Solid	3510C	363396
MB 480-363663/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-363663/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-363663/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 363970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	TCLP	Solid	8270D	363663
LB 480-363396/1-C	Method Blank	TCLP	Solid	8270D	363663
MB 480-363663/1-A	Method Blank	Total/NA	Solid	8270D	363663
LCS 480-363663/2-A	Lab Control Sample	Total/NA	Solid	8270D	363663
LCSD 480-363663/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	363663

GC Semi VOA

Prep Batch: 363250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	Total/NA	Solid	3550C	
MB 480-363250/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-363250/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-119784-1 MS	WC-21 20170619	Total/NA	Solid	3550C	
480-119784-1 MSD	WC-21 20170619	Total/NA	Solid	3550C	

Analysis Batch: 363263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	Total/NA	Solid	8082A	363250
MB 480-363250/1-A	Method Blank	Total/NA	Solid	8082A	363250
LCS 480-363250/2-A	Lab Control Sample	Total/NA	Solid	8082A	363250
480-119784-1 MS	WC-21 20170619	Total/NA	Solid	8082A	363250
480-119784-1 MSD	WC-21 20170619	Total/NA	Solid	8082A	363250

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Metals

Leach Batch: 363396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	TCLP	Solid	1311	
LB 480-363396/1-B	Method Blank	TCLP	Solid	1311	
LB 480-363396/1-D	Method Blank	TCLP	Solid	1311	

Prep Batch: 363661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	TCLP	Solid	3010A	363396
LB 480-363396/1-B	Method Blank	TCLP	Solid	3010A	363396
MB 480-363661/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 480-363661/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 363664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	TCLP	Solid	7470A	363396
LB 480-363396/1-D	Method Blank	TCLP	Solid	7470A	363396
MB 480-363664/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 480-363664/3-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 363974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	TCLP	Solid	7470A	363664
LB 480-363396/1-D	Method Blank	TCLP	Solid	7470A	363664
MB 480-363664/2-A	Method Blank	Total/NA	Solid	7470A	363664
LCS 480-363664/3-A	Lab Control Sample	Total/NA	Solid	7470A	363664

Analysis Batch: 364022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	TCLP	Solid	6010C	363661
LB 480-363396/1-B	Method Blank	TCLP	Solid	6010C	363661
MB 480-363661/2-A	Method Blank	Total/NA	Solid	6010C	363661
LCS 480-363661/3-A	Lab Control Sample	Total/NA	Solid	6010C	363661

General Chemistry

Analysis Batch: 362843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	Total/NA	Solid	Moisture	

Analysis Batch: 363047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	Total/NA	Solid	9095B	
480-119784-1 DU	WC-21 20170619	Total/NA	Solid	9095B	

Analysis Batch: 363238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	Total/NA	Solid	9045D	
LCS 480-363238/1	Lab Control Sample	Total/NA	Solid	9045D	
480-119784-1 DU	WC-21 20170619	Total/NA	Solid	9045D	

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

General Chemistry (Continued)

Analysis Batch: 363838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	Total/NA	Solid	1010A	
LCS 480-363838/1	Lab Control Sample	Total/NA	Solid	1010A	
480-119784-1 DU	WC-21 20170619	Total/NA	Solid	1010A	

Prep Batch: 363982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	Total/NA	Solid	7.3.3	
MB 480-363982/1-A	Method Blank	Total/NA	Solid	7.3.3	
LCS 480-363982/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	

Prep Batch: 363998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	Total/NA	Solid	7.3.4	
MB 480-363998/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 480-363998/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	

Analysis Batch: 364038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	Total/NA	Solid	9012	363982
MB 480-363982/1-A	Method Blank	Total/NA	Solid	9012	363982
LCS 480-363982/2-A	Lab Control Sample	Total/NA	Solid	9012	363982

Analysis Batch: 364040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	Total/NA	Solid	9034	363998
MB 480-363998/1-A	Method Blank	Total/NA	Solid	9034	363998
LCS 480-363998/2-A	Lab Control Sample	Total/NA	Solid	9034	363998

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Client Sample ID: WC-21 20170619

Lab Sample ID: 480-119784-1

Date Collected: 06/19/17 11:30

Matrix: Solid

Date Received: 06/19/17 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			363404	06/22/17 11:07	MAS	TAL BUF
TCLP	Analysis	8260C		10	363767	06/24/17 06:27	RJF	TAL BUF
TCLP	Leach	1311			363396	06/22/17 10:46	MAS	TAL BUF
TCLP	Prep	3510C			363663	06/23/17 11:19	NMC	TAL BUF
TCLP	Analysis	8270D		1	363970	06/26/17 13:08	MKP	TAL BUF
TCLP	Leach	1311			363396	06/22/17 10:46	MAS	TAL BUF
TCLP	Prep	3010A			363661	06/23/17 11:30	BMB	TAL BUF
TCLP	Analysis	6010C		1	364022	06/26/17 13:18	AMH	TAL BUF
TCLP	Leach	1311			363396	06/22/17 10:46	MAS	TAL BUF
TCLP	Prep	7470A			363664	06/23/17 12:00	MVZ	TAL BUF
TCLP	Analysis	7470A		1	363974	06/23/17 16:23	MVZ	TAL BUF
Total/NA	Analysis	1010A		1	363838	06/24/17 17:18	JCL	TAL BUF
Total/NA	Prep	7.3.3			363982	06/26/17 02:20	LAW	TAL BUF
Total/NA	Analysis	9012		1	364038	06/26/17 14:35	MDL	TAL BUF
Total/NA	Prep	7.3.4			363998	06/26/17 02:20	LAW	TAL BUF
Total/NA	Analysis	9034		1	364040	06/26/17 15:40	MDL	TAL BUF
Total/NA	Analysis	9045D		1	363238	06/21/17 07:43	ALZ	TAL BUF
Total/NA	Analysis	9095B		1	363047	06/20/17 19:40	ALZ	TAL BUF
Total/NA	Analysis	Moisture		1	362843	06/20/17 03:59	CSW	TAL BUF

Client Sample ID: WC-21 20170619

Lab Sample ID: 480-119784-1

Date Collected: 06/19/17 11:30

Matrix: Solid

Date Received: 06/19/17 14:30

Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			363250	06/21/17 16:10	MAS	TAL BUF
Total/NA	Analysis	8082A		1	363263	06/22/17 06:00	JMO	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
9012	7.3.3	Solid	Cyanide, Reactive
9034	7.3.4	Solid	Sulfide, Reactive
9045D		Solid	Temperature
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
9045D	pH	SW846	TAL BUF
9095B	Paint Filter	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-119784-1	WC-21 20170619	Solid	06/19/17 11:30	06/19/17 14:30

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Amherst, NY 14228
Phone: 716.691.2600 Fax: 716.691.7991

Company Name: **ARCADIS**
Address: **50 Fambach Plaza**
City/State/Zip: **Buffalo, NY 14202**
Phone: **716-667-0900**
Fax:
Project Name: **Fkx0**
Site: **Wasson St**
P O #

Client Contact
Regulatory Program: DW NPDES RCRA Other:
Project Manager: **Katherine Chabine**
Site Contact: **J. Bauer**
Date: **6/19/17**
Carrier: **DePoff**

Tell/Fax:
Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
TAT if different from Below **3 Day**
 2 weeks
 1 week
 2 days
 1 day

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Lab Contact	Carrier	Date	COC No.
WC-21 20170619	6-19-17	11:30	G	Soil	06			TLP Voc			
								TLP Voc			
								TRP 5 VOC			
								TRP 1 PCBs			
								TRP 1 PCBs			
								Comesive			
								Flesh			
								Reachy Co. S			
								Paint Filter			
								TCLP Percent			

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Unknown

Special Instructions/QC Requirements & Comments:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client Disposal by Lab Archive for _____ Months

Custody Seal No.: _____

Relinquished by: **Katherine Chabine** Date/Time: **6/19/17 14:30**

Relinquished by: **Arceid's** Date/Time: **6/19/17 14:30**

Relinquished by: _____ Date/Time: _____

Relinquished by: _____ Date/Time: _____



Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-119784-1

Login Number: 119784

List Number: 1

Creator: Williams, Christopher S

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
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 sample IDs on the containers 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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



Technical Report for

Arcadis

Flexo Transparent LLC, Seneca Street, Buffalo, NY

06105002.0010

SGS Accutest Job Number: JC48773

Sampling Date: 08/10/17

Report to:

**Arcadis
50 Fountain Plaza #600
Buffalo, NY 14202
Katherine.Clubine@Arcadis.com**

ATTN: Katherine Clubine

Total number of pages in report: 42



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

**Nancy Cole
Laboratory Director**

Client Service contact: Diane Komar 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (L-A-B L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

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Sample Summary

Arcadis

Job No: JC48773

Flexo Transparent LLC, Seneca Street, Buffalo, NY
 Project No: 06105002.0010

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JC48773-1	08/10/17	16:30 JB	08/11/17	SO	Soil	RU-1 20170810
JC48773-2	08/10/17	16:45 JB	08/11/17	SO	Soil	RU-2 20170810
JC48773-3	08/10/17	17:00 JB	08/11/17	SO	Soil	RU-3 20170810

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: JC48773
Account: Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY
Collected: 08/10/17

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

JC48773-1 RU-1 20170810

No hits reported in this sample.

JC48773-2 RU-2 20170810

Methylene chloride ^a	2.9 J	5.7	2.8	ug/kg	SW846 8260C
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JC48773-3 RU-3 20170810

Benzo(a)anthracene	50.9	39	11	ug/kg	SW846 8270D
Benzo(a)pyrene	66.9	39	18	ug/kg	SW846 8270D
Benzo(b)fluoranthene	88.6	39	17	ug/kg	SW846 8270D
Benzo(g,h,i)perylene	43.6	39	20	ug/kg	SW846 8270D
Benzo(k)fluoranthene	29.1 J	39	18	ug/kg	SW846 8270D
Chrysene	53.5	39	12	ug/kg	SW846 8270D
Fluoranthene	65.2	39	17	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	51.4	39	18	ug/kg	SW846 8270D
Phenanthrene	27.7 J	39	13	ug/kg	SW846 8270D
Pyrene	66.3	39	13	ug/kg	SW846 8270D

(a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory outside of holding time.

Sample Results

Report of Analysis

Report of Analysis

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3

Client Sample ID: RU-1 20170810	
Lab Sample ID: JC48773-1	Date Sampled: 08/10/17
Matrix: SO - Soil	Date Received: 08/11/17
Method: SW846 8260C	Percent Solids: 84.0
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	3C139095.D	1	08/15/17 14:57	PS	n/a	n/a	V3C6314
Run #2							

Run #	Initial Weight
Run #1	5.5 g
Run #2	

VOA Soil Cleanup Objectives Priority List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	6.9	ug/kg	
71-43-2	Benzene	ND	0.54	0.12	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	5.7	ug/kg	
104-51-8	n-Butylbenzene	ND	2.2	0.39	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.2	0.25	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.2	0.48	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	0.70	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	0.31	ug/kg	
67-66-3	Chloroform	ND	2.2	0.35	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.56	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.31	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.52	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.1	0.28	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.19	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.1	0.77	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.44	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.63	ug/kg	
123-91-1	1,4-Dioxane	ND	140	51	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.31	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.46	ug/kg	
75-09-2	Methylene chloride	ND	5.4	2.7	ug/kg	
103-65-1	n-Propylbenzene	ND	2.2	0.25	ug/kg	
127-18-4	Tetrachloroethene	ND	2.2	0.69	ug/kg	
108-88-3	Toluene	ND	1.1	0.59	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.2	0.63	ug/kg	
79-01-6	Trichloroethene	ND	1.1	0.59	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.2	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.2	1.1	ug/kg	
75-01-4	Vinyl chloride	ND	2.2	0.83	ug/kg	
	m,p-Xylene	ND	1.1	0.59	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.27	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.27	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RU-1 20170810	
Lab Sample ID: JC48773-1	Date Sampled: 08/10/17
Matrix: SO - Soil	Date Received: 08/11/17
Method: SW846 8260C	Percent Solids: 84.0
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY	

VOA Soil Cleanup Objectives Priority List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		72-129%
17060-07-0	1,2-Dichloroethane-D4	100%		73-132%
2037-26-5	Toluene-D8	92%		80-120%
460-00-4	4-Bromofluorobenzene	93%		77-125%

(a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory outside of holding time.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RU-2 20170810		
Lab Sample ID: JC48773-2		Date Sampled: 08/10/17
Matrix: SO - Soil		Date Received: 08/11/17
Method: SW846 8260C		Percent Solids: 81.9
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	3C139096.D	1	08/15/17 15:25	PS	n/a	n/a	V3C6314
Run #2							

	Initial Weight
Run #1	5.4 g
Run #2	

VOA Soil Cleanup Objectives Priority List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	7.2	ug/kg	
71-43-2	Benzene	ND	0.57	0.12	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	5.9	ug/kg	
104-51-8	n-Butylbenzene	ND	2.3	0.41	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.3	0.26	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.3	0.50	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	0.73	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	0.33	ug/kg	
67-66-3	Chloroform	ND	2.3	0.37	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.58	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.32	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.54	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.1	0.29	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.20	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.1	0.80	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.45	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.66	ug/kg	
123-91-1	1,4-Dioxane	ND	140	53	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.33	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.48	ug/kg	
75-09-2	Methylene chloride	2.9	5.7	2.8	ug/kg	J
103-65-1	n-Propylbenzene	ND	2.3	0.26	ug/kg	
127-18-4	Tetrachloroethene	ND	2.3	0.72	ug/kg	
108-88-3	Toluene	ND	1.1	0.62	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	0.66	ug/kg	
79-01-6	Trichloroethene	ND	1.1	0.62	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.3	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.3	1.1	ug/kg	
75-01-4	Vinyl chloride	ND	2.3	0.86	ug/kg	
	m,p-Xylene	ND	1.1	0.62	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.28	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.28	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RU-2 20170810	
Lab Sample ID: JC48773-2	Date Sampled: 08/10/17
Matrix: SO - Soil	Date Received: 08/11/17
Method: SW846 8260C	Percent Solids: 81.9
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY	

VOA Soil Cleanup Objectives Priority List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		72-129%
17060-07-0	1,2-Dichloroethane-D4	94%		73-132%
2037-26-5	Toluene-D8	89%		80-120%
460-00-4	4-Bromofluorobenzene	88%		77-125%

(a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory outside of holding time.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RU-3 20170810	
Lab Sample ID: JC48773-3	Date Sampled: 08/10/17
Matrix: SO - Soil	Date Received: 08/11/17
Method: SW846 8270D SW846 3546	Percent Solids: 84.1
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z124096.D	1	08/15/17 06:44	CS	08/12/17 06:30	OP5260	EZ6149
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

ABN Soil Cleanup Objectives Priority List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	78	25	ug/kg	
	3&4-Methylphenol	ND	78	32	ug/kg	
87-86-5	Pentachlorophenol	ND	160	37	ug/kg	
108-95-2	Phenol	ND	78	20	ug/kg	
83-32-9	Acenaphthene	ND	39	13	ug/kg	
208-96-8	Acenaphthylene	ND	39	20	ug/kg	
120-12-7	Anthracene	ND	39	24	ug/kg	
56-55-3	Benzo(a)anthracene	50.9	39	11	ug/kg	
50-32-8	Benzo(a)pyrene	66.9	39	18	ug/kg	
205-99-2	Benzo(b)fluoranthene	88.6	39	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	43.6	39	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	29.1	39	18	ug/kg	J
218-01-9	Chrysene	53.5	39	12	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	39	17	ug/kg	
132-64-9	Dibenzofuran	ND	78	16	ug/kg	
206-44-0	Fluoranthene	65.2	39	17	ug/kg	
86-73-7	Fluorene	ND	39	18	ug/kg	
118-74-1	Hexachlorobenzene	ND	78	9.9	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	51.4	39	18	ug/kg	
91-20-3	Naphthalene	ND	39	11	ug/kg	
85-01-8	Phenanthrene	27.7	39	13	ug/kg	J
129-00-0	Pyrene	66.3	39	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		23-115%
4165-62-2	Phenol-d5	43%		27-114%
118-79-6	2,4,6-Tribromophenol	49%		19-152%
4165-60-0	Nitrobenzene-d5	46%		26-134%
321-60-8	2-Fluorobiphenyl	46%		39-124%
1718-51-0	Terphenyl-d14	55%		36-134%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RU-3 20170810		Date Sampled: 08/10/17
Lab Sample ID: JC48773-3		Date Received: 08/11/17
Matrix: SO - Soil		Percent Solids: 84.1
Method: SW846 8082A SW846 3546		
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX214248.D	1	08/14/17 22:55	JR	08/12/17 08:15	OP5257	GXX6094
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	39	31	ug/kg	
11104-28-2	Aroclor 1221	ND	39	17	ug/kg	
11141-16-5	Aroclor 1232	ND	39	24	ug/kg	
53469-21-9	Aroclor 1242	ND	39	19	ug/kg	
12672-29-6	Aroclor 1248	ND	39	23	ug/kg	
11097-69-1	Aroclor 1254	ND	39	18	ug/kg	
11096-82-5	Aroclor 1260	ND	39	28	ug/kg	
11100-14-4	Aroclor 1268	ND	39	17	ug/kg	
37324-23-5	Aroclor 1262	ND	39	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		24-152%
877-09-8	Tetrachloro-m-xylene	92%		24-152%
2051-24-3	Decachlorobiphenyl	67%		10-166%
2051-24-3	Decachlorobiphenyl	74%		10-166%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



ACCUTEST

CHAIN OF CUSTODY

12345 Main St
Buffalo, NY 14203
TEL: 716.835.1234 FAX: 716.835.5678
WWW.SGS.COM

8280 9740 4451
JC48773

Client / Reporting Information Project Information Requested Analysis (see TEST CODE sheet) Matrix Code

ARCADIS Flexo Transport LLC
50 Fankin Plaza Suite 1116 Seneca St
Buffalo, NY 14202 Buffalo, NY
Kate Chubine kchubine@arcadis.com
716-462-6637
S. Brown 583 750 2000 Katherine Chubine
902

Vertical - Technical
S. Brown
K. Chubine

Req. No.	Req. D.	Form #	Collection Date	Time	Location	Matrix	Matrix Code	Matrix Description	Matrix Code	Matrix Description
1	RU-1	20170810	8/10/17	16:30	5B	SO	2	2	2	E37
2	RU-2	20170810	8/10/17	16:45	5B	SO	2	2	2	4E1
3	RU-3	20170810	8/10/17	17:00	5B	SO	4	4	2 2	1474 4943 E135

INITIAL ASSESSMENT: [Signature]
LABEL VERIFICATION: [Signature]

Compliance Checklist

- RC 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200

Agency: 588
48116 TAI

Comments: [List of comments]

Sample inventory verified and checked by the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

Received By	Date/Time	Received By	Date/Time	Received By	Date/Time	Received By	Date/Time	Received By	Date/Time
1. [Signature]	8/10/17 17:30	2. [Signature]	8/10/17 17:30	3. [Signature]	8/10/17 17:30	4. [Signature]	8/10/17 17:30	5. [Signature]	8/10/17 17:30

SGS Accutest Sample Receipt Summary

Job Number: JC48773

Client: Arcadis

Project: Flexo

Date / Time Received: 8/11/2017 9:20:00 AM

Delivery Method: FedEx

Airbill #'s: 678097404481

Cooler Temps (Raw Measured) °C: Cooler 1: (3.0);

Cooler Temps (Corrected) °C: Cooler 1: (2.2);

<u>Cooler Security</u>	<u>Y</u>	<u>or</u>	<u>N</u>		<u>Y</u>	<u>or</u>	<u>N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Cooler temp verification:	<u>IR Gun</u>		
3. Cooler media:	<u>Ice (Bag)</u>		
4. No. Coolers:	<u>1</u>		

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:	<u>Intact</u>		

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

1) -1,-2: Soil volatiles not collected per 5035 specifications. LL soil to be lab preserved from intact volume within HT.

SM089-02
Rev. Date 12/1/16

JC48773: Chain of Custody

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4.1
4

Responded to by: CSR: N/A

Response Date: Response Date: 8/11/2017

Response:

Response: Proceed with analysis

4.1

4

JC48773: Chain of Custody
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GC/MS Volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC48773

Account: AGMNYB Arcadis

Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C6314-MB	3C139087.D	1	08/15/17	PS	n/a	n/a	V3C6314

The QC reported here applies to the following samples:

Method: SW846 8260C

JC48773-1, JC48773-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.4	ug/kg	
71-43-2	Benzene	ND	0.50	0.11	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	5.2	ug/kg	
104-51-8	n-Butylbenzene	ND	2.0	0.36	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.0	0.23	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.0	0.44	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.65	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.29	ug/kg	
67-66-3	Chloroform	ND	2.0	0.32	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.52	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.29	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.48	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.71	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.40	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.58	ug/kg	
123-91-1	1,4-Dioxane	ND	130	47	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/kg	
75-09-2	Methylene chloride	ND	5.0	2.5	ug/kg	
103-65-1	n-Propylbenzene	ND	2.0	0.23	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.64	ug/kg	
108-88-3	Toluene	ND	1.0	0.55	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.58	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.55	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.77	ug/kg	
	m,p-Xylene	ND	1.0	0.55	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.25	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.25	ug/kg	

Method Blank Summary

Job Number: JC48773

Account: AGMNYB Arcadis

Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C6314-MB	3C139087.D	1	08/15/17	PS	n/a	n/a	V3C6314

The QC reported here applies to the following samples:

Method: SW846 8260C

JC48773-1, JC48773-2

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	101% 72-129%
17060-07-0	1,2-Dichloroethane-D4	96% 73-132%
2037-26-5	Toluene-D8	98% 80-120%
460-00-4	4-Bromofluorobenzene	100% 77-125%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

5.1.1
5

Blank Spike Summary

Job Number: JC48773
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C6314-BS	3C139089.D	1	08/15/17	PS	n/a	n/a	V3C6314

The QC reported here applies to the following samples:

Method: SW846 8260C

JC48773-1, JC48773-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	200	182	91	45-144
71-43-2	Benzene	50	51.7	103	76-117
78-93-3	2-Butanone (MEK)	200	187	94	70-136
104-51-8	n-Butylbenzene	50	45.5	91	72-127
135-98-8	sec-Butylbenzene	50	51.1	102	73-128
98-06-6	tert-Butylbenzene	50	53.1	106	75-127
56-23-5	Carbon tetrachloride	50	47.6	95	74-139
108-90-7	Chlorobenzene	50	45.1	90	80-118
67-66-3	Chloroform	50	40.9	82	79-125
95-50-1	1,2-Dichlorobenzene	50	45.6	91	77-119
541-73-1	1,3-Dichlorobenzene	50	47.4	95	75-117
106-46-7	1,4-Dichlorobenzene	50	46.3	93	76-116
75-34-3	1,1-Dichloroethane	50	47.7	95	75-124
107-06-2	1,2-Dichloroethane	50	51.1	102	72-132
75-35-4	1,1-Dichloroethene	50	45.7	91	71-134
156-59-2	cis-1,2-Dichloroethene	50	41.5	83	73-116
156-60-5	trans-1,2-Dichloroethene	50	44.2	88	73-124
123-91-1	1,4-Dioxane	1250	1580	126	68-130
100-41-4	Ethylbenzene	50	42.1	84	77-118
1634-04-4	Methyl Tert Butyl Ether	50	48.7	97	73-119
75-09-2	Methylene chloride	50	43.2	86	72-120
103-65-1	n-Propylbenzene	50	44.5	89	75-126
127-18-4	Tetrachloroethene	50	47.4	95	70-132
108-88-3	Toluene	50	48.8	98	76-118
71-55-6	1,1,1-Trichloroethane	50	49.3	99	78-138
79-01-6	Trichloroethene	50	48.8	98	79-124
95-63-6	1,2,4-Trimethylbenzene	50	45.3	91	75-123
108-67-8	1,3,5-Trimethylbenzene	50	47.8	96	73-125
75-01-4	Vinyl chloride	50	52.5	105	55-139
	m,p-Xylene	100	91.0	91	79-119
95-47-6	o-Xylene	50	45.6	91	77-122
1330-20-7	Xylene (total)	150	137	91	79-120

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC48773

Account: AGMNYB Arcadis

Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C6314-BS	3C139089.D	1	08/15/17	PS	n/a	n/a	V3C6314

The QC reported here applies to the following samples:

Method: SW846 8260C

JC48773-1, JC48773-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	72-129%
17060-07-0	1,2-Dichloroethane-D4	110%	73-132%
2037-26-5	Toluene-D8	103%	80-120%
460-00-4	4-Bromofluorobenzene	95%	77-125%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC48773

Account: AGMNYB Arcadis

Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC48634-9MS	3C139089A.D	1	08/15/17	PS	n/a	n/a	V3C6314
JC48634-9MSD	3C139090.D	1	08/15/17	PS	n/a	n/a	V3C6314
JC48634-9	3C139094.D	1	08/15/17	PS	n/a	n/a	V3C6314

The QC reported here applies to the following samples:

Method: SW846 8260C

JC48773-1, JC48773-2

CAS No.	Compound	JC48634-9 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND	224	153	68	224	165	74	8	10-170/29
71-43-2	Benzene	ND	56	48.3	86	56	53.6	96	10	51-129/16
78-93-3	2-Butanone (MEK)	ND	224	186	83	224	197	88	6	30-151/24
104-51-8	n-Butylbenzene	ND	56	51.1	91	56	54.0	96	6	14-154/19
135-98-8	sec-Butylbenzene	ND	56	52.3	93	56	55.0	98	5	25-151/18
98-06-6	tert-Butylbenzene	ND	56	49.3	88	56	57.2	102	15	32-150/18
56-23-5	Carbon tetrachloride	ND	56	54.6	98	56	60.3	108	10	47-146/19
108-90-7	Chlorobenzene	ND	56	50.4	90	56	54.1	97	7	48-133/15
67-66-3	Chloroform	ND	56	48.9	87	56	52.6	94	7	56-133/16
95-50-1	1,2-Dichlorobenzene	ND	56	49.4	88	56	52.5	94	6	36-134/16
541-73-1	1,3-Dichlorobenzene	ND	56	50.4	90	56	53.1	95	5	35-133/17
106-46-7	1,4-Dichlorobenzene	ND	56	49.8	89	56	52.7	94	6	35-133/17
75-34-3	1,1-Dichloroethane	ND	56	48.4	86	56	53.2	95	9	54-133/16
107-06-2	1,2-Dichloroethane	ND	56	45.6	81	56	50.7	91	11	53-130/16
75-35-4	1,1-Dichloroethene	ND	56	44.4	79	56	48.7	87	9	48-141/19
156-59-2	cis-1,2-Dichloroethene	ND	56	46.0	82	56	49.3	88	7	47-127/17
156-60-5	trans-1,2-Dichloroethene	ND	56	44.6	80	56	49.6	89	11	47-134/17
123-91-1	1,4-Dioxane	ND	1400	1800	129	1400	1820	130	1	56-138/29
100-41-4	Ethylbenzene	ND	56	49.7	89	56	53.8	96	8	40-136/15
1634-04-4	Methyl Tert Butyl Ether	ND	56	48.6	87	56	51.0	91	5	55-119/16
75-09-2	Methylene chloride	ND	56	43.0	77	56	46.0	82	7	51-125/17
103-65-1	n-Propylbenzene	ND	56	50.6	90	56	53.1	95	5	29-150/17
127-18-4	Tetrachloroethene	2.0	J 56	44.5	76	56	53.4	92	18	27-171/19
108-88-3	Toluene	ND	56	44.0	79	56	54.5	97	21* a	46-131/17
71-55-6	1,1,1-Trichloroethane	ND	56	52.6	94	56	58.9	105	11	54-144/18
79-01-6	Trichloroethene	ND	56	49.2	88	56	55.6	99	12	45-145/16
95-63-6	1,2,4-Trimethylbenzene	ND	56	51.6	92	56	52.0	93	1	31-146/16
108-67-8	1,3,5-Trimethylbenzene	ND	56	52.1	93	56	53.4	95	2	33-144/16
75-01-4	Vinyl chloride	ND	56	49.9	89	56	50.7	91	2	38-139/21
	m,p-Xylene	ND	112	97.6	87	112	106	95	8	39-138/15
95-47-6	o-Xylene	ND	56	47.5	85	56	52.4	94	10	42-139/15
1330-20-7	Xylene (total)	ND	168	145	86	168	158	94	9	40-139/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC48773

Account: AGMNYB Arcadis

Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC48634-9MS	3C139089A.D	1	08/15/17	PS	n/a	n/a	V3C6314
JC48634-9MSD	3C139090.D	1	08/15/17	PS	n/a	n/a	V3C6314
JC48634-9	3C139094.D	1	08/15/17	PS	n/a	n/a	V3C6314

The QC reported here applies to the following samples:

Method: SW846 8260C

JC48773-1, JC48773-2

CAS No.	Surrogate Recoveries	MS	MSD	JC48634-9	Limits
1868-53-7	Dibromofluoromethane	100%	98%	98%	72-129%
17060-07-0	1,2-Dichloroethane-D4	93%	92%	109%	73-132%
2037-26-5	Toluene-D8	88%	98%	90%	80-120%
460-00-4	4-Bromofluorobenzene	102%	98%	90%	77-125%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

5.3.1
5

Instrument Performance Check (BFB)

Job Number: JC48773
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample: V3C6297-BFB	Injection Date: 07/28/17
Lab File ID: 3C138728.D	Injection Time: 18:08
Instrument ID: GCMS3C	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	28746	20.8	Pass
75	30.0 - 60.0% of mass 95	68709	49.7	Pass
95	Base peak, 100% relative abundance	138192	100.0	Pass
96	5.0 - 9.0% of mass 95	10129	7.33	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	102373	74.1	Pass
175	5.0 - 9.0% of mass 174	8178	5.92 (7.99) ^a	Pass
176	95.0 - 101.0% of mass 174	99154	71.8 (96.9) ^a	Pass
177	5.0 - 9.0% of mass 176	6762	4.89 (6.82) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3C6297-IC6297	3C138729.D	07/28/17	19:16	01:08	Initial cal 0.2
V3C6297-IC6297	3C138730.D	07/28/17	19:44	01:36	Initial cal 0.5
V3C6297-IC6297	3C138731.D	07/28/17	20:12	02:04	Initial cal 1
V3C6297-IC6297	3C138732.D	07/28/17	20:40	02:32	Initial cal 2
V3C6297-IC6297	3C138733.D	07/28/17	21:08	03:00	Initial cal 4
V3C6297-IC6297	3C138734.D	07/28/17	21:36	03:28	Initial cal 8
V3C6297-IC6297	3C138735.D	07/28/17	22:04	03:56	Initial cal 20
V3C6297-ICC6297	3C138736.D	07/28/17	22:32	04:24	Initial cal 50
V3C6297-IC6297	3C138737.D	07/28/17	23:00	04:52	Initial cal 100
V3C6297-IC6297	3C138738.D	07/28/17	23:28	05:20	Initial cal 200
V3C6297-ICV6297	3C138741.D	07/29/17	00:53	06:45	Initial cal verification 50
V3C6297-ICV6297	3C138742.D	07/29/17	01:21	07:13	Initial cal verification 50

5.4.1
5

Instrument Performance Check (BFB)

Job Number: JC48773
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample: V3C6314-BFB	Injection Date: 08/15/17
Lab File ID: 3C139086A.D	Injection Time: 09:40
Instrument ID: GCMS3C	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	26440	21.7	Pass
75	30.0 - 60.0% of mass 95	59066	48.5	Pass
95	Base peak, 100% relative abundance	121890	100.0	Pass
96	5.0 - 9.0% of mass 95	8163	6.70	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	98032	80.4	Pass
175	5.0 - 9.0% of mass 174	7802	6.40 (7.96) ^a	Pass
176	95.0 - 101.0% of mass 174	94288	77.4 (96.2) ^a	Pass
177	5.0 - 9.0% of mass 176	5935	4.87 (6.29) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3C6314-CC6297	3C139086.D	08/15/17	09:40	00:00	Continuing cal 20
ZZZZZZ	3C139087A.D	08/15/17	10:15	00:35	(unrelated sample)
V3C6314-MB	3C139087.D	08/15/17	10:15	00:35	Method Blank
V3C6314-BS	3C139089.D	08/15/17	11:33	01:53	Blank Spike
JC48634-9MS	3C139089A.D	08/15/17	12:09	02:29	Matrix Spike
JC48634-9MSD	3C139090.D	08/15/17	12:37	02:57	Matrix Spike Duplicate
ZZZZZZ	3C139092.D	08/15/17	13:33	03:53	(unrelated sample)
ZZZZZZ	3C139093.D	08/15/17	14:01	04:21	(unrelated sample)
JC48634-9	3C139094.D	08/15/17	14:29	04:49	(used for QC only; not part of job JC48773)
JC48773-1	3C139095.D	08/15/17	14:57	05:17	RU-1 20170810
JC48773-2	3C139096.D	08/15/17	15:25	05:45	RU-2 20170810
ZZZZZZ	3C139097.D	08/15/17	15:53	06:13	(unrelated sample)
ZZZZZZ	3C139098.D	08/15/17	16:22	06:42	(unrelated sample)
ZZZZZZ	3C139099.D	08/15/17	16:50	07:10	(unrelated sample)
ZZZZZZ	3C139100.D	08/15/17	17:18	07:38	(unrelated sample)
ZZZZZZ	3C139101.D	08/15/17	17:46	08:06	(unrelated sample)
ZZZZZZ	3C139102.D	08/15/17	18:14	08:34	(unrelated sample)
ZZZZZZ	3C139103.D	08/15/17	18:42	09:02	(unrelated sample)
ZZZZZZ	3C139104.D	08/15/17	19:11	09:31	(unrelated sample)
ZZZZZZ	3C139105.D	08/15/17	19:39	09:59	(unrelated sample)
ZZZZZZ	3C139106.D	08/15/17	20:07	10:27	(unrelated sample)
ZZZZZZ	3C139107.D	08/15/17	20:35	10:55	(unrelated sample)
ZZZZZZ	3C139108.D	08/15/17	21:03	11:23	(unrelated sample)
ZZZZZZ	3C139109.D	08/15/17	21:31	11:51	(unrelated sample)

5.4.2
5

Volatile Surrogate Recovery Summary

Job Number: JC48773

Account: AGMNYB Arcadis

Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Method: SW846 8260C

Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JC48773-1	3C139095.D	93	100	92	93
JC48773-2	3C139096.D	97	94	89	88
JC48634-9MS	3C139089A.D	100	93	88	102
JC48634-9MSD	3C139090.D	98	92	98	98
V3C6314-BS	3C139089.D	102	110	103	95
V3C6314-MB	3C139087.D	101	96	98	100

Surrogate Compounds

Recovery Limits

S1 = Dibromofluoromethane	72-129%
S2 = 1,2-Dichloroethane-D4	73-132%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	77-125%

5.5.1

5

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC48773
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5260-MB1	Z124088.D	1	08/15/17	CS	08/12/17	OP5260	EZ6149

The QC reported here applies to the following samples:

Method: SW846 8270D

JC48773-3

CAS No.	Compound	Result	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	67	21	ug/kg	
	3&4-Methylphenol	ND	67	27	ug/kg	
87-86-5	Pentachlorophenol	ND	130	31	ug/kg	
108-95-2	Phenol	ND	67	17	ug/kg	
83-32-9	Acenaphthene	ND	33	11	ug/kg	
208-96-8	Acenaphthylene	ND	33	17	ug/kg	
120-12-7	Anthracene	ND	33	20	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	9.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	16	ug/kg	
218-01-9	Chrysene	ND	33	10	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	15	ug/kg	
132-64-9	Dibenzofuran	ND	67	14	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	8.4	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	16	ug/kg	
91-20-3	Naphthalene	ND	33	9.4	ug/kg	
85-01-8	Phenanthrene	ND	33	11	ug/kg	
129-00-0	Pyrene	ND	33	11	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
367-12-4	2-Fluorophenol	70%	23-115%
4165-62-2	Phenol-d5	67%	27-114%
118-79-6	2,4,6-Tribromophenol	75%	19-152%
4165-60-0	Nitrobenzene-d5	75%	26-134%
321-60-8	2-Fluorobiphenyl	72%	39-124%
1718-51-0	Terphenyl-d14	93%	36-134%

Method Blank Summary

Job Number: JC48773
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5260-MB1	Z124088.D	1	08/15/17	CS	08/12/17	OP5260	EZ6149

The QC reported here applies to the following samples:

Method:

JC48773-3

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	system artifact	2.18	150	ug/kg	J
	system artifact/aldol-condensation	3.40	160	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

6.1.1
6

Blank Spike Summary

Job Number: JC48773
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5260-BS1	Z124089.D	1	08/15/17	CS	08/12/17	OP5260	EZ6149

The QC reported here applies to the following samples:

Method: SW846 8270D

JC48773-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-48-7	2-Methylphenol	1670	1330	80	40-126
	3&4-Methylphenol	1670	1370	82	40-127
87-86-5	Pentachlorophenol	1670	1270	76	15-149
108-95-2	Phenol	1670	1310	79	50-109
83-32-9	Acenaphthene	1670	1330	80	53-119
208-96-8	Acenaphthylene	1670	1280	77	41-125
120-12-7	Anthracene	1670	1350	81	51-120
56-55-3	Benzo(a)anthracene	1670	1410	85	54-118
50-32-8	Benzo(a)pyrene	1670	1450	87	55-121
205-99-2	Benzo(b)fluoranthene	1670	1390	83	57-116
191-24-2	Benzo(g,h,i)perylene	1670	1190	71	40-124
207-08-9	Benzo(k)fluoranthene	1670	1410	85	59-116
218-01-9	Chrysene	1670	1350	81	51-115
53-70-3	Dibenzo(a,h)anthracene	1670	1250	75	48-121
132-64-9	Dibenzofuran	1670	1240	74	51-119
206-44-0	Fluoranthene	1670	1440	86	58-117
86-73-7	Fluorene	1670	1360	82	56-114
118-74-1	Hexachlorobenzene	1670	1320	79	50-128
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1170	70	49-124
91-20-3	Naphthalene	1670	1210	73	44-116
85-01-8	Phenanthrene	1670	1350	81	53-119
129-00-0	Pyrene	1670	1380	83	54-124

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	77%	23-115%
4165-62-2	Phenol-d5	76%	27-114%
118-79-6	2,4,6-Tribromophenol	85%	19-152%
4165-60-0	Nitrobenzene-d5	73%	26-134%
321-60-8	2-Fluorobiphenyl	70%	39-124%
1718-51-0	Terphenyl-d14	91%	36-134%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC48773

Account: AGMNYB Arcadis

Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5260-MS	Z124094.D	1	08/15/17	CS	08/12/17	OP5260	EZ6149
OP5260-MSD	Z124095.D	1	08/15/17	CS	08/12/17	OP5260	EZ6149
JC48742-2	Z124097.D	1	08/15/17	CS	08/12/17	OP5260	EZ6149
JC48742-2	Z124140.D	10	08/16/17	CS	08/12/17	OP5260	EZ6151

The QC reported here applies to the following samples:

Method: SW846 8270D

JC48773-3

CAS No.	Compound	JC48742-2 ug/kg	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-48-7	2-Methylphenol	ND	1750	1380	79	1740	1310	75	5	10-138/33
	3&4-Methylphenol	ND	1750	1440	82	1740	1370	79	5	10-143/33
87-86-5	Pentachlorophenol	ND	1750	556	32	1740	482	28	14	10-148/39
108-95-2	Phenol	236	1750	1680	83	1740	1380	66	20	24-114/32
83-32-9	Acenaphthene	37.3	1750	1400	78	1740	1400	79	0	21-136/34
208-96-8	Acenaphthylene	ND	1750	1340	77	1740	1320	76	2	10-143/36
120-12-7	Anthracene	101	1750	1440	77	1740	1420	76	1	10-147/39
56-55-3	Benzo(a)anthracene	208	1750	1520	75	1740	1510	75	1	10-151/41
50-32-8	Benzo(a)pyrene	232	1750	1700	84	1740	1620	80	5	10-149/40
205-99-2	Benzo(b)fluoranthene	265	1750	1600	76	1740	1500	71	6	10-147/42
191-24-2	Benzo(g,h,i)perylene	151	1750	1620	84	1740	1560	81	4	10-150/41
207-08-9	Benzo(k)fluoranthene	107	1750	1600	85	1740	1440	77	11	12-142/41
218-01-9	Chrysene	205	1750	1490	74	1740	1470	73	1	10-151/41
53-70-3	Dibenzo(a,h)anthracene	38.7	1750	1510	84	1740	1460	82	3	10-152/38
132-64-9	Dibenzofuran	20.6	J 1750	1350	76	1740	1350	77	0	17-141/36
206-44-0	Fluoranthene	547	1750	1850	75	1740	1810	73	2	10-151/44
86-73-7	Fluorene	40.0	1750	1440	80	1740	1420	80	1	19-133/36
118-74-1	Hexachlorobenzene	ND	1750	1310	75	1740	1320	76	1	18-142/37
193-39-5	Indeno(1,2,3-cd)pyrene	165	1750	1560	80	1740	1540	79	1	10-148/41
91-20-3	Naphthalene	ND	1750	1260	72	1740	1220	70	3	10-136/36
85-01-8	Phenanthrene	361	1750	1650	74	1740	1630	73	1	11-145/45
129-00-0	Pyrene	501	1750	1820	76	1740	1950	83	7	11-155/44

CAS No.	Surrogate Recoveries	MS	MSD	JC48742-2	JC48742-2	Limits
367-12-4	2-Fluorophenol	31%	29%	25%	21% * a	23-115%
4165-62-2	Phenol-d5	67%	66%	62%	45%	27-114%
118-79-6	2,4,6-Tribromophenol	25%	20%	15% * b	0% * b	19-152%
4165-60-0	Nitrobenzene-d5	74%	72%	75%	71%	26-134%
321-60-8	2-Fluorobiphenyl	70%	70%	72%	70%	39-124%
1718-51-0	Terphenyl-d14	95%	103%	94%	81%	36-134%

(a) Outside control limits due to dilution.

(b) Outside control limits due to matrix interference. Confirmed by re-extraction.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JC48773
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample: EZ6137-DFTPP	Injection Date: 08/06/17
Lab File ID: Z123862.D	Injection Time: 18:59
Instrument ID: GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	20669	35.3	Pass
68	Less than 2.0% of mass 69	179	0.31 (0.81) ^a	Pass
69	Mass 69 relative abundance	22217	38.0	Pass
70	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
127	40.0 - 60.0% of mass 198	26882	45.9	Pass
197	Less than 1.0% of mass 198	111	0.19	Pass
198	Base peak, 100% relative abundance	58514	100.0	Pass
199	5.0 - 9.0% of mass 198	4043	6.91	Pass
275	10.0 - 30.0% of mass 198	14089	24.1	Pass
365	1.0 - 100.0% of mass 198	1540	2.63	Pass
441	Present, but less than mass 443	4466	7.63 (74.6) ^b	Pass
442	40.0 - 100.0% of mass 198	30792	52.6	Pass
443	17.0 - 23.0% of mass 442	5989	10.2 (19.4) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EZ6137-IC6137	Z123863.D	08/06/17	19:28	00:29	Initial cal 100
EZ6137-IC6137	Z123864.D	08/06/17	19:55	00:56	Initial cal 80
EZ6137-ICC6137	Z123865.D	08/06/17	20:21	01:22	Initial cal 50
EZ6137-IC6137	Z123866.D	08/06/17	20:48	01:49	Initial cal 25
EZ6137-IC6137	Z123867.D	08/06/17	21:15	02:16	Initial cal 10
EZ6137-IC6137	Z123868.D	08/06/17	21:41	02:42	Initial cal 5
EZ6137-IC6137	Z123869.D	08/06/17	22:08	03:09	Initial cal 2
EZ6137-IC6137	Z123870.D	08/06/17	22:35	03:36	Initial cal 1

Instrument Performance Check (DFTPP)

Job Number: JC48773
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample: EZ6138-DFTPP	Injection Date: 08/06/17
Lab File ID: Z123871.D	Injection Time: 23:02
Instrument ID: GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	21207	36.4	Pass
68	Less than 2.0% of mass 69	376	0.65 (1.64) ^a	Pass
69	Mass 69 relative abundance	22872	39.3	Pass
70	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
127	40.0 - 60.0% of mass 198	26944	46.3	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	58253	100.0	Pass
199	5.0 - 9.0% of mass 198	4019	6.90	Pass
275	10.0 - 30.0% of mass 198	13434	23.1	Pass
365	1.0 - 100.0% of mass 198	1422	2.44	Pass
441	Present, but less than mass 443	4539	7.79 (79.3) ^b	Pass
442	40.0 - 100.0% of mass 198	30007	51.5	Pass
443	17.0 - 23.0% of mass 442	5725	9.83 (19.1) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EZ6138-ICV6137	Z123881.D	08/07/17	03:26	04:24	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC48773
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample: EZ6139-DFTPP	Injection Date: 08/07/17
Lab File ID: Z123888.D	Injection Time: 14:57
Instrument ID: GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	20458	36.0	Pass
68	Less than 2.0% of mass 69	353	0.62 (1.62) ^a	Pass
69	Mass 69 relative abundance	21833	38.4	Pass
70	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
127	40.0 - 60.0% of mass 198	26651	46.9	Pass
197	Less than 1.0% of mass 198	144	0.25	Pass
198	Base peak, 100% relative abundance	56834	100.0	Pass
199	5.0 - 9.0% of mass 198	3872	6.81	Pass
275	10.0 - 30.0% of mass 198	12877	22.7	Pass
365	1.0 - 100.0% of mass 198	1332	2.34	Pass
441	Present, but less than mass 443	4025	7.08 (75.3) ^b	Pass
442	40.0 - 100.0% of mass 198	28035	49.3	Pass
443	17.0 - 23.0% of mass 442	5342	9.40 (19.1) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EZ6139-IC6139	Z123901.D	08/07/17	17:10	02:13	Initial cal 100
EZ6139-IC6139	Z123902.D	08/07/17	17:37	02:40	Initial cal 80
EZ6139-ICC6139	Z123903.D	08/07/17	18:04	03:07	Initial cal 50
EZ6139-IC6139	Z123904.D	08/07/17	18:31	03:34	Initial cal 25
EZ6139-IC6139	Z123905.D	08/07/17	18:58	04:01	Initial cal 10
EZ6139-IC6139	Z123906.D	08/07/17	19:24	04:27	Initial cal 5
EZ6139-IC6139	Z123907.D	08/07/17	19:51	04:54	Initial cal 2
EZ6139-IC6139	Z123908.D	08/07/17	20:18	05:21	Initial cal 1
EZ6139-ICV6137	Z123910.D	08/07/17	21:12	06:15	Initial cal verification 50
EZ6139-ICV6139	Z123910A.D	08/07/17	21:12	06:15	Initial cal verification 50
EZ6139-ICV6139	Z123911.D	08/07/17	21:39	06:42	Initial cal verification 50
EZ6139-ICV6139	Z123912A.D	08/07/17	22:06	07:09	Initial cal verification 50
EZ6139-ICV6137	Z123912.D	08/07/17	22:06	07:09	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC48773
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample: EZ6140-DFTPP	Injection Date: 08/08/17
Lab File ID: Z123916.D	Injection Time: 10:17
Instrument ID: GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	15951	34.3	Pass
68	Less than 2.0% of mass 69	269	0.58 (1.52) ^a	Pass
69	Mass 69 relative abundance	17686	38.0	Pass
70	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
127	40.0 - 60.0% of mass 198	21230	45.6	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	46544	100.0	Pass
199	5.0 - 9.0% of mass 198	3020	6.49	Pass
275	10.0 - 30.0% of mass 198	11050	23.7	Pass
365	1.0 - 100.0% of mass 198	1195	2.57	Pass
441	Present, but less than mass 443	3744	8.04 (81.2) ^b	Pass
442	40.0 - 100.0% of mass 198	25048	53.8	Pass
443	17.0 - 23.0% of mass 442	4610	9.90 (18.4) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EZ6140-ICV6137	Z123917.D	08/08/17	10:59	00:42	Initial cal verification 50
EZ6140-ICV6137	Z123918.D	08/08/17	11:26	01:09	Initial cal verification 50
EZ6140-ICV6139	Z123918A.D	08/08/17	11:26	01:09	Initial cal verification 50

6.4.4
6

Instrument Performance Check (DFTPP)

Job Number: JC48773
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample: EZ6149-DFTPP	Injection Date: 08/15/17
Lab File ID: Z124082.D	Injection Time: 00:42
Instrument ID: GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	23135	32.1	Pass
68	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
69	Mass 69 relative abundance	25765	35.7	Pass
70	Less than 2.0% of mass 69	243	0.34 (0.94) ^a	Pass
127	40.0 - 60.0% of mass 198	32775	45.4	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	72154	100.0	Pass
199	5.0 - 9.0% of mass 198	4882	6.77	Pass
275	10.0 - 30.0% of mass 198	18965	26.3	Pass
365	1.0 - 100.0% of mass 198	2177	3.02	Pass
441	Present, but less than mass 443	6941	9.62 (79.3) ^b	Pass
442	40.0 - 100.0% of mass 198	45762	63.4	Pass
443	17.0 - 23.0% of mass 442	8755	12.1 (19.1) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EZ6149-CC6137	Z124083.D	08/15/17	00:59	00:17	Continuing cal 50
EZ6149-CC6139	Z124084.D	08/15/17	01:26	00:44	Continuing cal 50
OP5150-MB1	Z124086.D	08/15/17	02:19	01:37	Method Blank
OP5150-BS1	Z124087.D	08/15/17	02:45	02:03	Blank Spike
OP5260-MB1	Z124088.D	08/15/17	03:12	02:30	Method Blank
OP5260-BS1	Z124089.D	08/15/17	03:39	02:57	Blank Spike
JC48360-1	Z124090.D	08/15/17	04:05	03:23	(used for QC only; not part of job JC48773)
ZZZZZZ	Z124091.D	08/15/17	04:32	03:50	(unrelated sample)
ZZZZZZ	Z124092.D	08/15/17	04:58	04:16	(unrelated sample)
ZZZZZZ	Z124093.D	08/15/17	05:25	04:43	(unrelated sample)
OP5260-MS	Z124094.D	08/15/17	05:51	05:09	Matrix Spike
OP5260-MSD	Z124095.D	08/15/17	06:18	05:36	Matrix Spike Duplicate
JC48773-3	Z124096.D	08/15/17	06:44	06:02	RU-3 20170810
JC48742-2	Z124097.D	08/15/17	07:11	06:29	(used for QC only; not part of job JC48773)
ZZZZZZ	Z124098.D	08/15/17	07:37	06:55	(unrelated sample)
ZZZZZZ	Z124099.D	08/15/17	08:03	07:21	(unrelated sample)
ZZZZZZ	Z124100.D	08/15/17	08:30	07:48	(unrelated sample)
ZZZZZZ	Z124101.D	08/15/17	08:56	08:14	(unrelated sample)
ZZZZZZ	Z124102.D	08/15/17	09:23	08:41	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC48773
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample: EZ6149-DFTPP	Injection Date: 08/15/17
Lab File ID: Z124082.D	Injection Time: 00:42
Instrument ID: GCMSZ	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	Z124103.D	08/15/17	09:50	09:08	(unrelated sample)
ZZZZZZ	Z124107.D	08/15/17	10:16	09:34	(unrelated sample)
OP5150-MS	Z124104.D	08/15/17	10:43	10:01	Matrix Spike
OP5150-MSD	Z124105.D	08/15/17	11:10	10:28	Matrix Spike Duplicate

6.4.5
6

Semivolatile Surrogate Recovery Summary

Job Number: JC48773

Account: AGMNYB Arcadis

Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Method: SW846 8270D

Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JC48773-3	Z124096.D	44	43	49	46	46	55
OP5260-BS1	Z124089.D	77	76	85	73	70	91
OP5260-MB1	Z124088.D	70	67	75	75	72	93
OP5260-MS	Z124094.D	31	67	25	74	70	95
OP5260-MSD	Z124095.D	29	66	20	72	70	103

Surrogate Compounds

Recovery Limits

S1 = 2-Fluorophenol	23-115%
S2 = Phenol-d5	27-114%
S3 = 2,4,6-Tribromophenol	19-152%
S4 = Nitrobenzene-d5	26-134%
S5 = 2-Fluorobiphenyl	39-124%
S6 = Terphenyl-d14	36-134%

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC48773
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5257-MB1	XX214230.D	1	08/14/17	JR	08/12/17	OP5257	GXX6094

The QC reported here applies to the following samples:

Method: SW846 8082A

JC48773-3

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	33	26	ug/kg	
11104-28-2	Aroclor 1221	ND	33	14	ug/kg	
11141-16-5	Aroclor 1232	ND	33	20	ug/kg	
53469-21-9	Aroclor 1242	ND	33	17	ug/kg	
12672-29-6	Aroclor 1248	ND	33	20	ug/kg	
11097-69-1	Aroclor 1254	ND	33	15	ug/kg	
11096-82-5	Aroclor 1260	ND	33	24	ug/kg	
11100-14-4	Aroclor 1268	ND	33	15	ug/kg	
37324-23-5	Aroclor 1262	ND	33	17	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
877-09-8	Tetrachloro-m-xylene	98%	24-152%
877-09-8	Tetrachloro-m-xylene	102%	24-152%
2051-24-3	Decachlorobiphenyl	90%	10-166%
2051-24-3	Decachlorobiphenyl	93%	10-166%

7.1.1
7

Blank Spike Summary

Job Number: JC48773
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5257-BS1	XX214231.D	1	08/14/17	JR	08/12/17	OP5257	GXX6094

The QC reported here applies to the following samples:

Method: SW846 8082A

JC48773-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	133	135	101	61-146
11104-28-2	Aroclor 1221		ND		70-130
11141-16-5	Aroclor 1232		ND		70-130
53469-21-9	Aroclor 1242		ND		70-130
12672-29-6	Aroclor 1248		ND		70-130
11097-69-1	Aroclor 1254		ND		70-130
11096-82-5	Aroclor 1260	133	139	104	62-148
11100-14-4	Aroclor 1268		ND		50-150 ^a
37324-23-5	Aroclor 1262		ND		50-150 ^a

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	91%	24-152%
877-09-8	Tetrachloro-m-xylene	96%	24-152%
2051-24-3	Decachlorobiphenyl	86%	10-166%
2051-24-3	Decachlorobiphenyl	89%	10-166%

(a) Advisory control limits.

* = Outside of Control Limits.

7.2.1
 7

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC48773
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5257-MS	XX214450.D	1	08/17/17	JR	08/12/17	OP5257	GXX6096
OP5257-MSD	XX214451.D	1	08/17/17	JR	08/12/17	OP5257	GXX6096
JC47531-1	XX214449.D	1	08/17/17	JR	08/12/17	OP5257	GXX6096

The QC reported here applies to the following samples:

Method: SW846 8082A

JC48773-3

CAS No.	Compound	JC47531-1 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND	227	257	113	229	250	109	3	24-178/46
11104-28-2	Aroclor 1221	ND		ND			ND		nc	70-130/50
11141-16-5	Aroclor 1232	ND		ND			ND		nc	70-130/50
53469-21-9	Aroclor 1242	ND		ND			ND		nc	70-130/50
12672-29-6	Aroclor 1248	ND		ND			ND		nc	70-130/50
11097-69-1	Aroclor 1254	ND		ND			ND		nc	70-130/50
11096-82-5	Aroclor 1260	180	227	442	115	229	420	105	5	15-185/45
11100-14-4	Aroclor 1268	ND		ND			ND		nc	-/50
37324-23-5	Aroclor 1262	ND		ND			ND		nc	-/50

CAS No.	Surrogate Recoveries	MS	MSD	JC47531-1	Limits
877-09-8	Tetrachloro-m-xylene	95%	90%	97%	24-152%
877-09-8	Tetrachloro-m-xylene	100%	98%	101%	24-152%
2051-24-3	Decachlorobiphenyl	88%	84%	93%	10-166%
2051-24-3	Decachlorobiphenyl	101%	91%	102%	10-166%

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: JC48773

Account: AGMNYB Arcadis

Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Method: SW846 8082A	Matrix: SO
----------------------------	-------------------

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 ^a	S1 ^b	S2 ^a	S2 ^b
JC48773-3	XX214248.D	91	92	67	74
OP5257-BS1	XX214231.D	91	96	86	89
OP5257-MB1	XX214230.D	98	102	90	93
OP5257-MS	XX214450.D	95	100	88	101
OP5257-MSD	XX214451.D	90	98	84	91

Surrogate Compounds	Recovery Limits
----------------------------	------------------------

S1 = Tetrachloro-m-xylene	24-152%
S2 = Decachlorobiphenyl	10-166%

- (a) Recovery from GC signal #1
- (b) Recovery from GC signal #2

7.4.1
7



Requested Facility: CHAFFEE LANDFILL Unsure Profile Number: _____
 Multiple Generator Locations (Attach Locations) Request Certificate of Disposal Renewal? Original Profile Number: _____

A. GENERATOR INFORMATION (MATERIAL ORIGIN)
1. Generator Name: Flexo Transparent, LLC
2. Site Address: 1146 Seneca Street
(City, State, ZIP) Buffalo, NY 14210
3. County: Erie
4. Contact Name: Tom Neuman
5. Email: tneuman@flexotransparent.com
6. Phone: 716-541-0135 7. Fax: 716-541-0625
8. Generator EPA ID: _____ N/A
9. State ID: _____ N/A

B. BILLING INFORMATION SAME AS GENERATOR
1. Billing Name: Pinto Construction Services, Inc.
2. Billing Address: 1 Babcock Street
(City, State, ZIP) Buffalo, NY 14210
3. Contact Name: Robert Broomfield
4. Email: rbroomfield@pintoheavyconst.com
5. Phone: 716-622-8412 6. Fax: 716-825-6773
7. WM Hauled? Yes No
8. P.O. Number: _____
9. Payment Method: Credit Account Cash Credit Card

C. MATERIAL INFORMATION
1. Common Name: Non-RCRA regulated ink/solvent impacted soil
Describe Process Generating Material: See Attached

Excess soil generated during construction and expansion activities at a former brick and lumber manufacturing facility. Clean-up at the Site is regulated under the NYSDEC voluntary Brownsfield Cleanup Program.

2. Material Composition and Contaminants: See Attached

1. soil	90-98%
2. clay/stone	1-5%
3. metal, wood, brick, small chunks of concrete	1-5%
4.	
Total composition must be equal to or greater than 100%	
	≥100%

3. State Waste Codes: _____ N/A
4. Color: brown
5. Physical State at 70°F: Solid Liquid Other: _____
6. Free Liquid Range Percentage: _____ to _____ N/A
7. pH: 7.6 to 7.6 N/A
8. Strong Odor: Yes No Describe: _____
9. Flash Point: <140°F 140°-199°F ≥200°F N/A
>176 F

D. REGULATORY INFORMATION
1. EPA Hazardous Waste? Yes* No
Code: _____
2. State Hazardous Waste? Yes No
Code: _____
3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion? Yes* No
4. Contains Underlying Hazardous Constituents? Yes* No
5. Contains benzene and subject to Benzene NESHAP? Yes* No
6. Facility remediation subject to 40 CFR 63 GGGGG? Yes* No
7. CERCLA or State-mandated clean-up? Yes* No
8. NRC or State-regulated radioactive or NORM waste? Yes* No
***If Yes, see Addendum (page 2) for additional questions and space.**
9. Contains PCBs? → If Yes, answer a, b and c. Yes No
a. Regulated by 40 CFR 761? Yes No
b. Remediation under 40 CFR 761.61 (a)? Yes No
c. Were PCB imported into the US? Yes No
10. Regulated and/or Untreated Medical/Infectious Waste? Yes No
11. Contains Asbestos? Yes No
→ If Yes: Non-Friable Non-Friable - Regulated Friable

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION
1. Analytical attached Yes
Please identify applicable samples and/or lab reports:

Client Project/Site: Flexo Transparent
Test America Job ID: ID 480-118499-1
Sample ID: WC-20 20170524
Sample Collection Date: May 24, 2017

2. Other information attached (such as MSDS)? Yes

F. SHIPPING AND DOT INFORMATION
1. One-Time Event Repeat Event/Ongoing Business
2. Estimated Quantity/Unit of Measure: 20 tons
 Tons Yards Drums Gallons Other: _____
3. Container Type and Size: dump truck
4. USDOT Proper Shipping Name: _____ N/A
Non-RCRA Non-DOT Solids, N.O.S (ink/solvent impacted soil)

G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)
By signing this EZ Profile™ form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytical) will be identified by the Generator and be disclosed to Waste Management prior to providing the material to Waste Management.

If I am an agent signing on behalf of the Generator, I have confirmed with the Generator that information contained in this Profile is accurate and complete.
Name (Print): Ben Girard Date: 8/31/2017
Title: Project Manager
Company: Arcadis of New York, Inc. on behalf of Flexo Transparent, LLC
THINK GREEN®

Certification Signature

Flexo Transparent Site History

The Site comprises three adjacent properties located at 1122, 1132, and 1146 Seneca Street, Buffalo, New York. Under the New York State Brownfield Cleanup Program (BCP), Flexo is redeveloping the Site for expansion of their current business, which involves the manufacture of plastic wraps and bags for food and other product packaging. Historical usage of the Site properties includes a former electrical transformer manufacturing facility on the west (1122 and 1132 Seneca Street) and former brick and lumber manufacturing facilities (now vacant land) on the east (1146 Seneca Street).

The area of concern was reported to have historic dumping or discharge of waste ink/solvent mixtures. The release of the waste ink/solvent predated the current owner/operator of the site, and therefore the formulation of the solvent/ink mixture cannot be determined. The source constituents and concentrations of the waste ink/solvent mixture is unknown, as well as the exact timeline of the release.

In 2006, a Phase II Environmental Assessment was completed by Hazard Evaluations for an area west of the manufacturing building located on the 1146 Seneca Street parcel. The Hazard Evaluations investigation report, which includes laboratory analytical data of the soil, has been included as an attachment. This report was submitted to the New York State Department of Environmental Conservation. The response letter from the NYSDEC, dated August 28, 2006, states that upon review of the laboratory analytical data, the soil is considered non-hazardous.

In May 2016, the area west of the manufacturing building, which contained the previously documented solvent/ink mixture impacts, was excavated during construction for a building expansion. Approximately 20 tons of soil was generated. A waste characterization sample ID WC-20 20170524 was collected on May 24, 2017. As reflected on the Test America report 480-118499-1, the results were non-detect for TCLP VOC and TCLP SVOC and Total PCB. Low levels of metals were detected in the following concentrations: 0.52 ppm Barium, 0.0044 ppm cadmium, 0.020 ppm lead.

The soil is considered non-hazardous waste based on the following assumptions:

1. Because the source solvent/ink mixture composition is unknown, it cannot be confirmed that under 6 NYCRR Part 371.4(b)(1) that the source solvent/ink mixture contained at least 10% of constituents that fall under hazard waste codes F003 or F005.
2. In 2006, the laboratory analytical data collected by Hazard Evaluations was deemed non-hazardous per NYSDEC. The 2006 analytical data and investigation report and the NYSDEC August 28, 2006 response letter are attached.
3. Upon review of the Test America report 480-118499-1 for sample ID WC20 20170524 that was collected on May 24, 2017, the soil is non-hazardous for ignitability, corrosivity, reactivity, and toxicity.

August 21, 2017

Waste Management - Chaffee Landfill

Waste Profile Approvals Department

10860 Olean Rd

Chaffee, NY 14030

Re: Flexo Transparent, LLC Soil Disposal at WM Chaffee Landfill

To Whom It May Concern,

This letter is regarding approximately 20 tons of Non-RCRA regulated ink/solvent mixture impacted soil generated during construction excavation at the Flexo Transparent, LLC property (1146 Seneca Street, Buffalo NY 14210) in May 2017. Waste Management has requested a statement from the owner of the Flexo property regarding any knowledge of the potential ink/solvent mixture impacts observed in the excavated soil. This statement supplements the previously submitted documentation, which includes:

- Waste Profile for Non-RCRA Non-DOT Solids, N.O.S (ink/solvent impacted soil)
- Flexo Transparent Site History, including discussion of why the soil is not considered RCRA waste
- Test America Analytical Report for Job ID: 480-118499-1, dated 6/2/2017
- Hazard Evaluations, Inc. historical Phase II report, dated 7/13/2006, including analytical data
- NYSDEC letter, dated 8/28/2006, responding to 2006 Phase II by Hazard Evaluations, Inc.

The 28 Wasson Street property was purchased in 1987 by chain of ownership - 28 Wasson Street, Inc.; Flexo Transparent, Inc.; and then RSB Enterprises, LLC. The current owner of the property is RSB Enterprises, LLC. In 2006, in anticipation of acquiring adjacent properties, a phase II investigation was completed for the 1146 Seneca Street property. The phase II investigation encountered ink/solvent mixture impacted soil on the 1146 Seneca Street property. The impacted area is adjacent to a manufacturing building (situated on the 28 Wasson Street) that operated as a food packaging printing facility from 1957 to 1987.

The current owner (by chain of ownership) was not provided any records related to the ink/solvent mixture impacted area from previous owners. It is assumed that the soil was impacted by facility employees exiting the back door of the manufacturing facility and discharging/dumping source waste liquid mixture into the soil prior to the current owner acquiring the 28 Wasson Street property in 1987 (by chain of ownership mentioned above.)

In the absence of documentation from the previous owner, and since the original impacts likely occurred anywhere from 30 years ago to 60 years ago, RSB Enterprises, LLC is unable to provide additional information regarding the quantity, constituents, or composition of the source waste.

It is requested that the impacted soil be accepted for non-hazardous disposal at Chaffe Landfill based on the following:

1. This letter serves to attest that the current property owner, RSB Enterprises, LLC has provided available knowledge and documentation regarding the source of impacts and cannot confirm the waste source quantity, constituents or composition.
2. In 2006, the laboratory analytical data collected by Hazard Evaluations was deemed non-hazardous per NYSDEC.
3. Upon review of the Test America report 480-118499-1 for sample ID WC20 20170524 that was collected on May 24, 2017, the soil is non-hazardous for ignitability, corrosivity, reactivity, and toxicity.

If you have any questions or require additional information, please contact Kate Clubine of Arcadis at 716-667-6637 or Katherine.Clubine@arcadis.com.

Regards,

A handwritten signature in black ink, appearing to read 'Brian Mabry', with a long, sweeping horizontal stroke extending to the right.

Brian Mabry

President of Flexo Transparent, LLC

RSB Enterprises, LLC

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-118499-1

Client Project/Site: Flexo Transparent

For:

ARCADIS U.S. Inc

50 Fountain Plaza

Suite 600

Buffalo, New York 14202

Attn: Katherine Clubine



Authorized for release by:

6/2/2017 12:23:26 PM

Rebecca Jones, Project Management Assistant I

rebecca.jones@testamericainc.com

Designee for

Melissa Deyo, Project Manager I

(716)504-9874

melissa.deyo@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-118499-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-118499-1

Job ID: 480-118499-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-118499-1

Receipt

The sample was received on 5/24/2017 4:50 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 21.7° C.

GC/MS VOA

Method(s) 8260C: The following sample was diluted due to the nature of the TCLP matrix: WC-20 20170524 (480-118499-1) and (LB 480-359105/1-A). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-360139 recovered above the upper control limit for Carbon tetrachloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: WC-20 20170524 (480-118499-1).

Method(s) 8260C: The laboratory control sample (LCS) for preparation batch 480-360139 recovered outside control limits for the following analytes: Carbon tetrachloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The following sample is impacted: WC-20 20170524 (480-118499-1)

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

GC/MS Semi VOA

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

GC Semi VOA

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

Metals

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

General Chemistry

Method(s) 9045C, 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: WC-20 20170524 (480-118499-1).

Method(s) 9095B: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation/analysis: WC-20 20170524 (480-118499-1).

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

Organic Prep

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 480-359364.

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

Detection Summary

Client: ARCADIS U.S. Inc
 Project/Site: Flexo Transparent

TestAmerica Job ID: 480-118499-1

Client Sample ID: WC-20 20170524

Lab Sample ID: 480-118499-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	passed				mL/100g	1		9095B	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.54	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0044		0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.020		0.020	0.0030	mg/L	1		6010C	TCLP
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176.0		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	7.6	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	20.0	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo



Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-118499-1

Client Sample ID: WC-20 20170524

Lab Sample ID: 480-118499-1

Date Collected: 05/24/17 15:30

Matrix: Solid

Date Received: 05/24/17 16:50

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			06/02/17 11:45	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			06/02/17 11:45	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			06/02/17 11:45	10
Benzene	ND		0.010	0.0041	mg/L			06/02/17 11:45	10
Carbon tetrachloride	ND *		0.010	0.0027	mg/L			06/02/17 11:45	10
Chlorobenzene	ND		0.010	0.0075	mg/L			06/02/17 11:45	10
Chloroform	ND		0.010	0.0034	mg/L			06/02/17 11:45	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			06/02/17 11:45	10
Trichloroethene	ND		0.010	0.0046	mg/L			06/02/17 11:45	10
Vinyl chloride	ND		0.010	0.0090	mg/L			06/02/17 11:45	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		77 - 120		06/02/17 11:45	10
4-Bromofluorobenzene (Surr)	105		73 - 120		06/02/17 11:45	10
Dibromofluoromethane (Surr)	107		75 - 123		06/02/17 11:45	10
Toluene-d8 (Surr)	96		80 - 120		06/02/17 11:45	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		05/26/17 14:14	05/27/17 19:06	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		05/26/17 14:14	05/27/17 19:06	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		05/26/17 14:14	05/27/17 19:06	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		05/26/17 14:14	05/27/17 19:06	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		05/26/17 14:14	05/27/17 19:06	1
3-Methylphenol	ND		0.010	0.00040	mg/L		05/26/17 14:14	05/27/17 19:06	1
4-Methylphenol	ND		0.010	0.00036	mg/L		05/26/17 14:14	05/27/17 19:06	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		05/26/17 14:14	05/27/17 19:06	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		05/26/17 14:14	05/27/17 19:06	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		05/26/17 14:14	05/27/17 19:06	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		05/26/17 14:14	05/27/17 19:06	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		05/26/17 14:14	05/27/17 19:06	1
Pyridine	ND		0.025	0.00041	mg/L		05/26/17 14:14	05/27/17 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		41 - 120	05/26/17 14:14	05/27/17 19:06	1
2-Fluorobiphenyl	74		48 - 120	05/26/17 14:14	05/27/17 19:06	1
2-Fluorophenol (Surr)	45		35 - 120	05/26/17 14:14	05/27/17 19:06	1
Nitrobenzene-d5 (Surr)	72		46 - 120	05/26/17 14:14	05/27/17 19:06	1
Phenol-d5 (Surr)	34		22 - 120	05/26/17 14:14	05/27/17 19:06	1
p-Terphenyl-d14 (Surr)	86		59 - 136	05/26/17 14:14	05/27/17 19:06	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		05/26/17 11:20	05/30/17 19:06	1
Barium	0.54	J	1.0	0.10	mg/L		05/26/17 11:20	05/30/17 19:06	1
Cadmium	0.0044		0.0020	0.00050	mg/L		05/26/17 11:20	05/30/17 19:06	1
Chromium	ND		0.020	0.010	mg/L		05/26/17 11:20	05/30/17 19:06	1
Lead	0.020		0.020	0.0030	mg/L		05/26/17 11:20	05/30/17 19:06	1
Selenium	ND		0.025	0.0087	mg/L		05/26/17 11:20	05/30/17 19:06	1
Silver	ND		0.0060	0.0017	mg/L		05/26/17 11:20	05/30/17 19:06	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-118499-1

Client Sample ID: WC-20 20170524

Lab Sample ID: 480-118499-1

Date Collected: 05/24/17 15:30

Matrix: Solid

Date Received: 05/24/17 16:50

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		05/26/17 12:20	05/26/17 16:23	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	passed				mL/100g			05/30/17 19:16	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176.0		50.0	50.0	Degrees F			05/31/17 09:07	1
Cyanide, Reactive	ND		9.9	9.9	mg/Kg		05/31/17 03:30	05/31/17 15:53	1
Sulfide, Reactive	ND		9.9	9.9	mg/Kg		05/31/17 03:30	06/01/17 13:00	1
pH	7.6	HF	0.1	0.1	SU			05/25/17 08:23	1
Temperature	20.0	HF	0.001	0.001	Degrees C			05/25/17 08:23	1

Client Sample ID: WC-20 20170524

Lab Sample ID: 480-118499-1

Date Collected: 05/24/17 15:30

Matrix: Solid

Date Received: 05/24/17 16:50

Percent Solids: 78.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.051	mg/Kg	✱	05/25/17 07:01	05/25/17 18:28	1
PCB-1221	ND		0.26	0.051	mg/Kg	✱	05/25/17 07:01	05/25/17 18:28	1
PCB-1232	ND		0.26	0.051	mg/Kg	✱	05/25/17 07:01	05/25/17 18:28	1
PCB-1242	ND		0.26	0.051	mg/Kg	✱	05/25/17 07:01	05/25/17 18:28	1
PCB-1248	ND		0.26	0.051	mg/Kg	✱	05/25/17 07:01	05/25/17 18:28	1
PCB-1254	ND		0.26	0.12	mg/Kg	✱	05/25/17 07:01	05/25/17 18:28	1
PCB-1260	ND		0.26	0.12	mg/Kg	✱	05/25/17 07:01	05/25/17 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	115		60 - 154	05/25/17 07:01	05/25/17 18:28	1
DCB Decachlorobiphenyl	107		65 - 174	05/25/17 07:01	05/25/17 18:28	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-118499-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
LCS 480-359966/4	Lab Control Sample	92	102	97	101
LCS 480-360139/5	Lab Control Sample	104	108	102	99
MB 480-359966/6	Method Blank	92	102	97	102
MB 480-360139/7	Method Blank	110	106	104	96

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-118499-1	WC-20 20170524	111	105	107	96
LB 480-359105/1-A	Method Blank	91	103	97	100

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (41-120)	FBP (48-120)	2FP (35-120)	NBZ (46-120)	PHL (22-120)	TPH (59-136)
LCS 480-359364/2-A	Lab Control Sample	86	85	54	84	40	85
LCSD 480-359364/3-A	Lab Control Sample Dup	86	86	54	87	38	87
MB 480-359364/1-A	Method Blank	79	86	51	82	36	93

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = p-Terphenyl-d14 (Surr)

TestAmerica Buffalo

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-118499-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (41-120)	FBP (48-120)	2FP (35-120)	NBZ (46-120)	PHL (22-120)	TPH (59-136)
480-118499-1	WC-20 20170524	83	74	45	72	34	86
LB 480-359099/1-F	Method Blank	79	70	45	68	33	88

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPH = p-Terphenyl-d14 (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (60-154)	DCB1 (65-174)
480-118499-1	WC-20 20170524	115	107
LCS 480-359032/2-A	Lab Control Sample	141	133
MB 480-359032/1-A	Method Blank	113	122

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-118499-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-359966/6
Matrix: Solid
Analysis Batch: 359966

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			06/01/17 11:41	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			06/01/17 11:41	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			06/01/17 11:41	1
Benzene	ND		0.0010	0.00041	mg/L			06/01/17 11:41	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			06/01/17 11:41	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			06/01/17 11:41	1
Chloroform	ND		0.0010	0.00034	mg/L			06/01/17 11:41	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			06/01/17 11:41	1
Trichloroethene	ND		0.0010	0.00046	mg/L			06/01/17 11:41	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			06/01/17 11:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		77 - 120		06/01/17 11:41	1
4-Bromofluorobenzene (Surr)	102		73 - 120		06/01/17 11:41	1
Dibromofluoromethane (Surr)	97		75 - 123		06/01/17 11:41	1
Toluene-d8 (Surr)	102		80 - 120		06/01/17 11:41	1

Lab Sample ID: LCS 480-359966/4
Matrix: Solid
Analysis Batch: 359966

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0250	0.0237		mg/L		95	66 - 127
1,2-Dichloroethane	0.0250	0.0231		mg/L		92	75 - 120
2-Butanone (MEK)	0.125	0.110		mg/L		88	57 - 140
Benzene	0.0250	0.0254		mg/L		102	71 - 124
Carbon tetrachloride	0.0250	0.0254		mg/L		102	72 - 134
Chlorobenzene	0.0250	0.0262		mg/L		105	80 - 120
Chloroform	0.0250	0.0247		mg/L		99	73 - 127
Tetrachloroethene	0.0250	0.0260		mg/L		104	74 - 122
Trichloroethene	0.0250	0.0247		mg/L		99	74 - 123
Vinyl chloride	0.0250	0.0260		mg/L		104	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		77 - 120
4-Bromofluorobenzene (Surr)	102		73 - 120
Dibromofluoromethane (Surr)	97		75 - 123
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: MB 480-360139/7
Matrix: Solid
Analysis Batch: 360139

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			06/02/17 11:09	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			06/02/17 11:09	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			06/02/17 11:09	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-118499-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-360139/7
Matrix: Solid
Analysis Batch: 360139

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010	0.00041	mg/L			06/02/17 11:09	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			06/02/17 11:09	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			06/02/17 11:09	1
Chloroform	ND		0.0010	0.00034	mg/L			06/02/17 11:09	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			06/02/17 11:09	1
Trichloroethene	ND		0.0010	0.00046	mg/L			06/02/17 11:09	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			06/02/17 11:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		77 - 120		06/02/17 11:09	1
4-Bromofluorobenzene (Surr)	106		73 - 120		06/02/17 11:09	1
Dibromofluoromethane (Surr)	104		75 - 123		06/02/17 11:09	1
Toluene-d8 (Surr)	96		80 - 120		06/02/17 11:09	1

Lab Sample ID: LCS 480-360139/5
Matrix: Solid
Analysis Batch: 360139

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0250	0.0215		mg/L		86	66 - 127
1,2-Dichloroethane	0.0250	0.0268		mg/L		107	75 - 120
2-Butanone (MEK)	0.125	0.130		mg/L		104	57 - 140
Benzene	0.0250	0.0244		mg/L		98	71 - 124
Carbon tetrachloride	0.0250	0.0341	*	mg/L		136	72 - 134
Chlorobenzene	0.0250	0.0248		mg/L		99	80 - 120
Chloroform	0.0250	0.0243		mg/L		97	73 - 127
Tetrachloroethene	0.0250	0.0277		mg/L		111	74 - 122
Trichloroethene	0.0250	0.0237		mg/L		95	74 - 123
Vinyl chloride	0.0250	0.0228		mg/L		91	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		77 - 120
4-Bromofluorobenzene (Surr)	108		73 - 120
Dibromofluoromethane (Surr)	102		75 - 123
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: LB 480-359105/1-A
Matrix: Solid
Analysis Batch: 359966

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			06/01/17 12:35	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			06/01/17 12:35	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			06/01/17 12:35	10
Benzene	ND		0.010	0.0041	mg/L			06/01/17 12:35	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			06/01/17 12:35	10
Chlorobenzene	ND		0.010	0.0075	mg/L			06/01/17 12:35	10
Chloroform	ND		0.010	0.0034	mg/L			06/01/17 12:35	10

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-118499-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB 480-359105/1-A
Matrix: Solid
Analysis Batch: 359966

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		0.010	0.0036	mg/L			06/01/17 12:35	10
Trichloroethene	ND		0.010	0.0046	mg/L			06/01/17 12:35	10
Vinyl chloride	ND		0.010	0.0090	mg/L			06/01/17 12:35	10

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		77 - 120		06/01/17 12:35	10
4-Bromofluorobenzene (Surr)	103		73 - 120		06/01/17 12:35	10
Dibromofluoromethane (Surr)	97		75 - 123		06/01/17 12:35	10
Toluene-d8 (Surr)	100		80 - 120		06/01/17 12:35	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-359364/1-A
Matrix: Solid
Analysis Batch: 359453

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 359364

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.0025	0.00012	mg/L		05/26/17 14:14	05/27/17 14:18	1
2,4,5-Trichlorophenol	ND		0.0013	0.00012	mg/L		05/26/17 14:14	05/27/17 14:18	1
2,4,6-Trichlorophenol	ND		0.0013	0.00015	mg/L		05/26/17 14:14	05/27/17 14:18	1
2,4-Dinitrotoluene	ND		0.0013	0.00011	mg/L		05/26/17 14:14	05/27/17 14:18	1
2-Methylphenol	ND		0.0013	0.00010	mg/L		05/26/17 14:14	05/27/17 14:18	1
3-Methylphenol	ND		0.0025	0.00010	mg/L		05/26/17 14:14	05/27/17 14:18	1
4-Methylphenol	ND		0.0025	0.000090	mg/L		05/26/17 14:14	05/27/17 14:18	1
Hexachlorobenzene	ND		0.0013	0.00013	mg/L		05/26/17 14:14	05/27/17 14:18	1
Hexachlorobutadiene	ND		0.0013	0.00017	mg/L		05/26/17 14:14	05/27/17 14:18	1
Hexachloroethane	ND		0.0013	0.00015	mg/L		05/26/17 14:14	05/27/17 14:18	1
Nitrobenzene	ND		0.0013	0.000073	mg/L		05/26/17 14:14	05/27/17 14:18	1
Pentachlorophenol	ND		0.0025	0.00055	mg/L		05/26/17 14:14	05/27/17 14:18	1
Pyridine	ND		0.0063	0.00010	mg/L		05/26/17 14:14	05/27/17 14:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		41 - 120	05/26/17 14:14	05/27/17 14:18	1
2-Fluorobiphenyl	86		48 - 120	05/26/17 14:14	05/27/17 14:18	1
2-Fluorophenol (Surr)	51		35 - 120	05/26/17 14:14	05/27/17 14:18	1
Nitrobenzene-d5 (Surr)	82		46 - 120	05/26/17 14:14	05/27/17 14:18	1
Phenol-d5 (Surr)	36		22 - 120	05/26/17 14:14	05/27/17 14:18	1
p-Terphenyl-d14 (Surr)	93		59 - 136	05/26/17 14:14	05/27/17 14:18	1

Lab Sample ID: LCS 480-359364/2-A
Matrix: Solid
Analysis Batch: 359453

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 359364

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.0500	0.0332		mg/L		66	51 - 120
2,4,5-Trichlorophenol	0.0500	0.0467		mg/L		93	65 - 126
2,4,6-Trichlorophenol	0.0500	0.0438		mg/L		88	64 - 120

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-118499-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-359364/2-A
Matrix: Solid
Analysis Batch: 359453

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 359364

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2,4-Dinitrotoluene	0.0500	0.0462		mg/L		92	69 - 120
2-Methylphenol	0.0500	0.0382		mg/L		76	39 - 120
3-Methylphenol	0.0500	0.0366		mg/L		73	39 - 120
4-Methylphenol	0.0500	0.0366		mg/L		73	29 - 131
Hexachlorobenzene	0.0500	0.0445		mg/L		89	61 - 120
Hexachlorobutadiene	0.0500	0.0304		mg/L		61	35 - 120
Hexachloroethane	0.0500	0.0302		mg/L		60	43 - 120
Nitrobenzene	0.0500	0.0446		mg/L		89	53 - 123
Pentachlorophenol	0.100	0.0909		mg/L		91	29 - 136
Pyridine	0.100	0.0502		mg/L		50	10 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	86		41 - 120
2-Fluorobiphenyl	85		48 - 120
2-Fluorophenol (Surr)	54		35 - 120
Nitrobenzene-d5 (Surr)	84		46 - 120
Phenol-d5 (Surr)	40		22 - 120
p-Terphenyl-d14 (Surr)	85		59 - 136

Lab Sample ID: LCSD 480-359364/3-A
Matrix: Solid
Analysis Batch: 359453

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 359364

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dichlorobenzene	0.0500	0.0337		mg/L		67	51 - 120	2	36
2,4,5-Trichlorophenol	0.0500	0.0464		mg/L		93	65 - 126	1	18
2,4,6-Trichlorophenol	0.0500	0.0439		mg/L		88	64 - 120	0	19
2,4-Dinitrotoluene	0.0500	0.0472		mg/L		94	69 - 120	2	20
2-Methylphenol	0.0500	0.0389		mg/L		78	39 - 120	2	27
3-Methylphenol	0.0500	0.0366		mg/L		73	39 - 120	0	30
4-Methylphenol	0.0500	0.0366		mg/L		73	29 - 131	0	24
Hexachlorobenzene	0.0500	0.0435		mg/L		87	61 - 120	2	15
Hexachlorobutadiene	0.0500	0.0308		mg/L		62	35 - 120	1	44
Hexachloroethane	0.0500	0.0309		mg/L		62	43 - 120	2	46
Nitrobenzene	0.0500	0.0453		mg/L		91	53 - 123	2	24
Pentachlorophenol	0.100	0.0918		mg/L		92	29 - 136	1	37
Pyridine	0.100	0.0513		mg/L		51	10 - 120	2	49

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	86		41 - 120
2-Fluorobiphenyl	86		48 - 120
2-Fluorophenol (Surr)	54		35 - 120
Nitrobenzene-d5 (Surr)	87		46 - 120
Phenol-d5 (Surr)	38		22 - 120
p-Terphenyl-d14 (Surr)	87		59 - 136

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-118499-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB 480-359099/1-F

Matrix: Solid

Analysis Batch: 359453

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 359364

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		05/26/17 14:14	05/27/17 15:37	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		05/26/17 14:14	05/27/17 15:37	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		05/26/17 14:14	05/27/17 15:37	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		05/26/17 14:14	05/27/17 15:37	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		05/26/17 14:14	05/27/17 15:37	1
3-Methylphenol	ND		0.010	0.00040	mg/L		05/26/17 14:14	05/27/17 15:37	1
4-Methylphenol	ND		0.010	0.00036	mg/L		05/26/17 14:14	05/27/17 15:37	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		05/26/17 14:14	05/27/17 15:37	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		05/26/17 14:14	05/27/17 15:37	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		05/26/17 14:14	05/27/17 15:37	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		05/26/17 14:14	05/27/17 15:37	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		05/26/17 14:14	05/27/17 15:37	1
Pyridine	ND		0.025	0.00041	mg/L		05/26/17 14:14	05/27/17 15:37	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		41 - 120	05/26/17 14:14	05/27/17 15:37	1
2-Fluorobiphenyl	70		48 - 120	05/26/17 14:14	05/27/17 15:37	1
2-Fluorophenol (Surr)	45		35 - 120	05/26/17 14:14	05/27/17 15:37	1
Nitrobenzene-d5 (Surr)	68		46 - 120	05/26/17 14:14	05/27/17 15:37	1
Phenol-d5 (Surr)	33		22 - 120	05/26/17 14:14	05/27/17 15:37	1
p-Terphenyl-d14 (Surr)	88		59 - 136	05/26/17 14:14	05/27/17 15:37	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-359032/1-A

Matrix: Solid

Analysis Batch: 359173

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 359032

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.048	mg/Kg		05/25/17 07:01	05/25/17 16:20	1
PCB-1221	ND		0.25	0.048	mg/Kg		05/25/17 07:01	05/25/17 16:20	1
PCB-1232	ND		0.25	0.048	mg/Kg		05/25/17 07:01	05/25/17 16:20	1
PCB-1242	ND		0.25	0.048	mg/Kg		05/25/17 07:01	05/25/17 16:20	1
PCB-1248	ND		0.25	0.048	mg/Kg		05/25/17 07:01	05/25/17 16:20	1
PCB-1254	ND		0.25	0.12	mg/Kg		05/25/17 07:01	05/25/17 16:20	1
PCB-1260	ND		0.25	0.12	mg/Kg		05/25/17 07:01	05/25/17 16:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	113		60 - 154	05/25/17 07:01	05/25/17 16:20	1
DCB Decachlorobiphenyl	122		65 - 174	05/25/17 07:01	05/25/17 16:20	1

Lab Sample ID: LCS 480-359032/2-A

Matrix: Solid

Analysis Batch: 359173

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 359032

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	1.71	2.34		mg/Kg		137	51 - 185

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-118499-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 480-359032/2-A
Matrix: Solid
Analysis Batch: 359173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 359032
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1260	1.71	2.34		mg/Kg		137	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	141		60 - 154
DCB Decachlorobiphenyl	133		65 - 174

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-359292/2-A
Matrix: Solid
Analysis Batch: 359769

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 359292

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		05/26/17 11:20	05/30/17 18:41	1
Barium	ND		1.0	0.10	mg/L		05/26/17 11:20	05/30/17 18:41	1
Cadmium	ND		0.0020	0.00050	mg/L		05/26/17 11:20	05/30/17 18:41	1
Chromium	ND		0.020	0.010	mg/L		05/26/17 11:20	05/30/17 18:41	1
Lead	ND		0.020	0.0030	mg/L		05/26/17 11:20	05/30/17 18:41	1
Selenium	ND		0.025	0.0087	mg/L		05/26/17 11:20	05/30/17 18:41	1
Silver	ND		0.0060	0.0017	mg/L		05/26/17 11:20	05/30/17 18:41	1

Lab Sample ID: LCS 480-359292/3-A
Matrix: Solid
Analysis Batch: 359769

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 359292
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	1.00	1.16		mg/L		116	80 - 120
Barium	1.00	1.08		mg/L		108	80 - 120
Cadmium	1.00	1.13		mg/L		113	80 - 120
Chromium	1.00	1.09		mg/L		109	80 - 120
Lead	1.00	1.07		mg/L		107	80 - 120
Selenium	1.00	1.16		mg/L		116	80 - 120
Silver	1.00	1.16		mg/L		116	80 - 120

Lab Sample ID: LB 480-359099/1-D
Matrix: Solid
Analysis Batch: 359769

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 359292

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		05/26/17 11:20	05/30/17 18:37	1
Barium	ND		1.0	0.10	mg/L		05/26/17 11:20	05/30/17 18:37	1
Cadmium	ND		0.0020	0.00050	mg/L		05/26/17 11:20	05/30/17 18:37	1
Chromium	ND		0.020	0.010	mg/L		05/26/17 11:20	05/30/17 18:37	1
Lead	ND		0.020	0.0030	mg/L		05/26/17 11:20	05/30/17 18:37	1
Selenium	ND		0.025	0.0087	mg/L		05/26/17 11:20	05/30/17 18:37	1
Silver	ND		0.0060	0.0017	mg/L		05/26/17 11:20	05/30/17 18:37	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-118499-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-359331/2-A
Matrix: Solid
Analysis Batch: 359430

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 359331

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		05/26/17 12:20	05/26/17 16:12	1

Lab Sample ID: LCS 480-359331/3-A
Matrix: Solid
Analysis Batch: 359430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 359331

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00668	0.00653		mg/L		98	80 - 120

Lab Sample ID: LB 480-359099/1-E
Matrix: Solid
Analysis Batch: 359430

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 359331

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		05/26/17 12:20	05/26/17 16:10	1

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-359865/1
Matrix: Solid
Analysis Batch: 359865

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	80.00		Degrees F		99	97.5 - 102.5

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-359831/1-A
Matrix: Solid
Analysis Batch: 360038

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 359831

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10.0	10.0	mg/Kg		05/31/17 03:30	05/31/17 15:53	1

Lab Sample ID: LCS 480-359831/2-A
Matrix: Solid
Analysis Batch: 360038

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 359831

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Reactive	1000	358.8		mg/Kg		36	10 - 100

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Flexo Transparent

TestAmerica Job ID: 480-118499-1

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-359834/1-A
 Matrix: Solid
 Analysis Batch: 360051

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 359834

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		10.0	10.0	mg/Kg		05/31/17 03:30	06/01/17 13:00	1

Lab Sample ID: LCS 480-359834/2-A
 Matrix: Solid
 Analysis Batch: 360051

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 359834

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide, Reactive	860	661.2		mg/Kg		77	10 - 100

Method: 9045D - pH

Lab Sample ID: LCS 480-359130/1
 Matrix: Solid
 Analysis Batch: 359130

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-118499-1

GC/MS VOA

Leach Batch: 359105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118499-1	WC-20 20170524	TCLP	Solid	1311	
LB 480-359105/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 359966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 480-359105/1-A	Method Blank	TCLP	Solid	8260C	359105
MB 480-359966/6	Method Blank	Total/NA	Solid	8260C	
LCS 480-359966/4	Lab Control Sample	Total/NA	Solid	8260C	

Analysis Batch: 360139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118499-1	WC-20 20170524	TCLP	Solid	8260C	359105
MB 480-360139/7	Method Blank	Total/NA	Solid	8260C	
LCS 480-360139/5	Lab Control Sample	Total/NA	Solid	8260C	

GC/MS Semi VOA

Leach Batch: 359099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118499-1	WC-20 20170524	TCLP	Solid	1311	
LB 480-359099/1-F	Method Blank	TCLP	Solid	1311	

Prep Batch: 359364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118499-1	WC-20 20170524	TCLP	Solid	3510C	359099
LB 480-359099/1-F	Method Blank	TCLP	Solid	3510C	359099
MB 480-359364/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-359364/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-359364/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 359453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118499-1	WC-20 20170524	TCLP	Solid	8270D	359364
LB 480-359099/1-F	Method Blank	TCLP	Solid	8270D	359364
MB 480-359364/1-A	Method Blank	Total/NA	Solid	8270D	359364
LCS 480-359364/2-A	Lab Control Sample	Total/NA	Solid	8270D	359364
LCSD 480-359364/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	359364

GC Semi VOA

Prep Batch: 359032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118499-1	WC-20 20170524	Total/NA	Solid	3550C	
MB 480-359032/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-359032/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 359173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118499-1	WC-20 20170524	Total/NA	Solid	8082A	359032
MB 480-359032/1-A	Method Blank	Total/NA	Solid	8082A	359032

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-118499-1

GC Semi VOA (Continued)

Analysis Batch: 359173 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-359032/2-A	Lab Control Sample	Total/NA	Solid	8082A	359032

Metals

Leach Batch: 359099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118499-1	WC-20 20170524	TCLP	Solid	1311	
LB 480-359099/1-D	Method Blank	TCLP	Solid	1311	
LB 480-359099/1-E	Method Blank	TCLP	Solid	1311	

Prep Batch: 359292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118499-1	WC-20 20170524	TCLP	Solid	3010A	359099
LB 480-359099/1-D	Method Blank	TCLP	Solid	3010A	359099
MB 480-359292/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 480-359292/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 359331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118499-1	WC-20 20170524	TCLP	Solid	7470A	359099
LB 480-359099/1-E	Method Blank	TCLP	Solid	7470A	359099
MB 480-359331/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 480-359331/3-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 359430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118499-1	WC-20 20170524	TCLP	Solid	7470A	359331
LB 480-359099/1-E	Method Blank	TCLP	Solid	7470A	359331
MB 480-359331/2-A	Method Blank	Total/NA	Solid	7470A	359331
LCS 480-359331/3-A	Lab Control Sample	Total/NA	Solid	7470A	359331

Analysis Batch: 359769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118499-1	WC-20 20170524	TCLP	Solid	6010C	359292
LB 480-359099/1-D	Method Blank	TCLP	Solid	6010C	359292
MB 480-359292/2-A	Method Blank	Total/NA	Solid	6010C	359292
LCS 480-359292/3-A	Lab Control Sample	Total/NA	Solid	6010C	359292

General Chemistry

Analysis Batch: 359023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118499-1	WC-20 20170524	Total/NA	Solid	Moisture	

Analysis Batch: 359130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118499-1	WC-20 20170524	Total/NA	Solid	9045D	
LCS 480-359130/1	Lab Control Sample	Total/NA	Solid	9045D	

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-118499-1

General Chemistry (Continued)

Analysis Batch: 359695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118499-1	WC-20 20170524	Total/NA	Solid	9095B	

Prep Batch: 359831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118499-1	WC-20 20170524	Total/NA	Solid	7.3.3	
MB 480-359831/1-A	Method Blank	Total/NA	Solid	7.3.3	
LCS 480-359831/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	

Prep Batch: 359834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118499-1	WC-20 20170524	Total/NA	Solid	7.3.4	
MB 480-359834/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 480-359834/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	

Analysis Batch: 359865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118499-1	WC-20 20170524	Total/NA	Solid	1010A	
LCS 480-359865/1	Lab Control Sample	Total/NA	Solid	1010A	

Analysis Batch: 360038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118499-1	WC-20 20170524	Total/NA	Solid	9012	359831
MB 480-359831/1-A	Method Blank	Total/NA	Solid	9012	359831
LCS 480-359831/2-A	Lab Control Sample	Total/NA	Solid	9012	359831

Analysis Batch: 360051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118499-1	WC-20 20170524	Total/NA	Solid	9034	359834
MB 480-359834/1-A	Method Blank	Total/NA	Solid	9034	359834
LCS 480-359834/2-A	Lab Control Sample	Total/NA	Solid	9034	359834

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-118499-1

Client Sample ID: WC-20 20170524

Lab Sample ID: 480-118499-1

Date Collected: 05/24/17 15:30

Matrix: Solid

Date Received: 05/24/17 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			359105	05/25/17 09:56	MAS	TAL BUF
TCLP	Analysis	8260C		10	360139	06/02/17 11:45	LCH	TAL BUF
TCLP	Leach	1311			359099	05/25/17 09:37	MAS	TAL BUF
TCLP	Prep	3510C			359364	05/26/17 14:14	SMP	TAL BUF
TCLP	Analysis	8270D		1	359453	05/27/17 19:06	PJQ	TAL BUF
TCLP	Leach	1311			359099	05/25/17 09:37	MAS	TAL BUF
TCLP	Prep	3010A			359292	05/26/17 11:20	MJW	TAL BUF
TCLP	Analysis	6010C		1	359769	05/30/17 19:06	AMH	TAL BUF
TCLP	Leach	1311			359099	05/25/17 09:37	MAS	TAL BUF
TCLP	Prep	7470A			359331	05/26/17 12:20	JRK	TAL BUF
TCLP	Analysis	7470A		1	359430	05/26/17 16:23	JRK	TAL BUF
Total/NA	Analysis	1010A		1	359865	05/31/17 09:07	DSC	TAL BUF
Total/NA	Prep	7.3.3			359831	05/31/17 03:30	LAW	TAL BUF
Total/NA	Analysis	9012		1	360038	05/31/17 15:53	MDL	TAL BUF
Total/NA	Prep	7.3.4			359834	05/31/17 03:30	LAW	TAL BUF
Total/NA	Analysis	9034		1	360051	06/01/17 13:00	MDL	TAL BUF
Total/NA	Analysis	9045D		1	359130	05/25/17 08:23	DSC	TAL BUF
Total/NA	Analysis	9095B		1	359695	05/30/17 19:16	ALZ	TAL BUF
Total/NA	Analysis	Moisture		1	359023	05/24/17 21:33	CMK	TAL BUF

Client Sample ID: WC-20 20170524

Lab Sample ID: 480-118499-1

Date Collected: 05/24/17 15:30

Matrix: Solid

Date Received: 05/24/17 16:50

Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			359032	05/25/17 07:01	NMC	TAL BUF
Total/NA	Analysis	8082A		1	359173	05/25/17 18:28	JMO	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-118499-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
9012	7.3.3	Solid	Cyanide, Reactive
9034	7.3.4	Solid	Sulfide, Reactive
9045D		Solid	Temperature
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-118499-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
9045D	pH	SW846	TAL BUF
9095B	Paint Filter	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-118499-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-118499-1	WC-20 20170524	Solid	05/24/17 15:30	05/24/17 16:50

1

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes No

TAL-4124 (1007)

Client: **ARCADIS** Chain of Custody Number: **250667**

Address: **50 Fountain Plaza Suite 600** Telephone Number (Area Code)/Fax Number: **716-667-6637**

City: **Buffalo** State: **NY** Zip Code: **14202** Site Contact: **J. Bravir** Lab Contact: **Melissa Dero**

Project Name and Location (State): **Flaxo Transposed** Contract/Purchase Order/Quote No. _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Date		
			Air	Aqueous	Sed	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
WC-20 20170524	5-24-17	15:30				<input checked="" type="checkbox"/>	6								
1010A Insulation			<input checked="" type="checkbox"/>												
6065 TUP Mats			<input checked="" type="checkbox"/>												
6062A PCBs			<input checked="" type="checkbox"/>												
8260CTLP WBS			<input checked="" type="checkbox"/>												
8270D7LP 526			<input checked="" type="checkbox"/>												
9012 Reactive			<input checked="" type="checkbox"/>												
9054 Reactive			<input checked="" type="checkbox"/>												
9058P Composite			<input checked="" type="checkbox"/>												
9059B Polymer			<input checked="" type="checkbox"/>												

Lab Purposes: **Asbestos, Lead, PCBs, PAHs, VOCs, SVOCs, TSP**

480-118499 COC

Page 1 of 1

QR Code

Sample Disposal	Return To Client	Unknown	Poison B	Skin Irritant	Flammable	Non-Hazard
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(A fee may be assessed if samples are retained longer than 1 month)

Months _____

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **5 Day**

1. Relinquished By: *[Signature]* Date: **5-24-17** Time: **16:50**

2. Relinquished By: *[Signature]* Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____

Comments: **Temp 21.7 #110JCF**



Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-118499-1

Login Number: 118499

List Number: 1

Creator: Kolb, Chris M

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
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	Yes: Received same day of collection
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 sample IDs on the containers 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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	



AMERICAN RECYCLERS COMPANY

Waste Profile Report (WPR)

177 Wales Avenue Tonawanda, New York 14151 Phone (716) 695-6720 Fax (716) 695-0161	APPROVAL NUMBER: H-12396IN EXPIRATION DATE: 5/1/2019 HANDLING CODE: B
---------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------

Generator: Flexo Transparent, LLC EPA ID #: Not Applicable
 Address: 28 Wasson Street Contact: Brian Mabry
 City: Buffalo STATE: NY ZIP: 14210 Phone: (716) 825-7710 Fax: (716) 825-0139

Waste Name: <u>Excavation Water</u> Generating Process: <u>Water recovered from dewatering an excavation pit during building expansion construction activities on a remediated New York State Brownfield Clean-Up Program site at 28 Wasson St. (formerly 1146 Seneca St.). The constituent of concern during remediation was polychlorinated biphenyls (PCBs) from historical manufacturing of electrical transformers and machines.</u>	Shipping Name: _____ Non-RCRA, Non-DOT regulated excavation water Rate of Generation: <u>approximately 15,000 gallons, one time</u> Container Type: <u>Tanker</u>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Composition of Waste	%	%
Excavation Water	99-100%	
Soil	0-1%	
See Paradigm lab report sample ID 171267-01, sample name Flexo Dewater, sample collected 3-28-2017		

Phase	%
Solids	0-1%
Liquid	99-100%
Sludge	
Debris	

Is the material RCRA listed or Characteristically Hazardous?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
Does the material contain Medical or Biological Wastes?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
Does the material contain etiological waste?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
Does the material contain, or has it come in contact with PCB's?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
Is the material radioactive?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
Does the material contain septic or domestic sewage?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
Is the material Non-Hazardous as defined by RCRA Title 40?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO

Check all below which apply:

Material is to be shipped and recycled as Universal Waste	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
Material is to be shipped and recycled under 6 NYCRR Part 371.1(g)(1)(ii)(b) <i>(ie Computer Equipment & monitors)</i>	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
Material is being shipped for disposal/recycle via facility transfer/consolidation permit	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
Material is a Labpack and all contents are CERTIFIED as Non-RCRA	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
List all Lab Pack Container Numbers: <i>(Attach packing slips to profile)</i>		

I certify that the above submitted information (including any attachments) is true, accurate and complete to the best of my knowledge and ability and that all known and suspected hazards have been disclosed. All material offered herein is deemed Non-RCRA.

Signer Title President
 Company Flexo Transparent, LLC

Signed: **Print:** Brian Mabry **Date:** 5/8/2017

ARC Personnel Reviewed and Approved by:

Approved by: **Print:** Tom Martin **Date:**



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For
Pinto Construction

For Lab Project ID

171267

Referencing

Flexo

Prepared

Thursday, April 06, 2017

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

A handwritten signature in black ink, consisting of several overlapping, slanted strokes, positioned above a horizontal line.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, April 06, 2017

Page 1 of 13



Client: Pinto Construction

Project Reference: Flexo

Sample Identifier: Flexo Dewater

Lab Sample ID: 171267-01

Date Sampled: 3/28/2017

Matrix: Wastewater

Date Received: 3/30/2017

5-Day Biochemical Oxygen Demand

Analyte	Result	Units	Qualifier	Date Analyzed
BOD 5	4.4	mg/L		3/30/2017

Method Reference(s): SM 5210 B

Subcontractor ELAP ID: 11148

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		3/31/2017 16:31

Method Reference(s): EPA 245.1

Preparation Date: 3/31/2017

Data File: Hg170331B

Priority Pollutant Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Antimony	< 0.0300	mg/L		3/31/2017 20:00
Arsenic	< 0.00500	mg/L		3/31/2017 20:00
Beryllium	< 0.00250	mg/L		3/31/2017 20:00
Cadmium	< 0.00250	mg/L		3/31/2017 20:00
Chromium	< 0.00500	mg/L		3/31/2017 20:00
Copper	< 0.0125	mg/L		3/31/2017 20:00
Lead	< 0.00500	mg/L		3/31/2017 20:00
Nickel	< 0.0200	mg/L		3/31/2017 20:00
Selenium	< 0.0100	mg/L		3/31/2017 20:00
Silver	< 0.00500	mg/L		3/31/2017 20:00
Thallium	< 0.0125	mg/L		3/31/2017 20:00
Zinc	0.0461	mg/L		3/31/2017 20:00

Method Reference(s): EPA 200.7

Preparation Date: 3/30/2017

Data File: 033117B

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Client: Pinto Construction

Project Reference: Flexo

Sample Identifier: Flexo Dewater

Lab Sample ID: 171267-01

Date Sampled: 3/28/2017

Matrix: Wastewater

Date Received: 3/30/2017

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 1.00	ug/L		4/6/2017 12:25
PCB-1221	< 1.00	ug/L		4/6/2017 12:25
PCB-1232	< 1.00	ug/L		4/6/2017 12:25
PCB-1242	< 1.00	ug/L		4/6/2017 12:25
PCB-1248	1.52	ug/L		4/6/2017 12:25
PCB-1254	< 1.00	ug/L		4/6/2017 12:25
PCB-1260	< 1.00	ug/L		4/6/2017 12:25

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	87.3	10 - 110		4/6/2017 12:25
Tetrachloro-m-xylene	56.0	10 - 106		4/6/2017 12:25

Method Reference(s): EPA 608
Preparation Date: 4/5/2017

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 0.100	ug/L		4/3/2017 16:40
4,4-DDE	< 0.100	ug/L		4/3/2017 16:40
4,4-DDT	< 0.100	ug/L		4/3/2017 16:40
Aldrin	< 0.100	ug/L		4/3/2017 16:40
alpha-BHC	< 0.100	ug/L		4/3/2017 16:40
beta-BHC	< 0.100	ug/L		4/3/2017 16:40
cis-Chlordane	< 0.100	ug/L		4/3/2017 16:40
delta-BHC	< 0.100	ug/L		4/3/2017 16:40
Dieldrin	< 0.100	ug/L		4/3/2017 16:40
Endosulfan I	< 0.100	ug/L		4/3/2017 16:40
Endosulfan II	< 0.100	ug/L		4/3/2017 16:40
Endosulfan Sulfate	< 0.100	ug/L		4/3/2017 16:40
Endrin	< 0.100	ug/L		4/3/2017 16:40
Endrin Aldehyde	< 0.100	ug/L		4/3/2017 16:40
gamma-BHC (Lindane)	< 0.100	ug/L		4/3/2017 16:40

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Client: Pinto Construction

Project Reference: Flexo

Sample Identifier: Flexo Dewater

Lab Sample ID: 171267-01

Date Sampled: 3/28/2017

Matrix: Wastewater

Date Received: 3/30/2017

Heptachlor	< 0.100	ug/L	4/3/2017	16:40
Heptachlor Epoxide	< 0.100	ug/L	4/3/2017	16:40
Methoxychlor	< 0.100	ug/L	4/3/2017	16:40
Toxaphene	< 1.00	ug/L	4/3/2017	16:40
trans-Chlordane	< 0.100	ug/L	4/3/2017	16:40

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
Decachlorobiphenyl (1)	111	10 - 123		4/3/2017 16:40
Tetrachloro-m-xylene (1)	78.8	22.2 - 77.8	*	4/3/2017 16:40

Method Reference(s): EPA 608
Preparation Date: 4/3/2017

pH

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
pH	7.73 @ 21.7 C	S.U.		3/30/2017 15:45

Method Reference(s): SM22 4500 H+ B
ELAP does not offer this test for approval as part of their laboratory certification program.

Total Phosphorus

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Phosphorus, Total	0.042	mg/L		4/3/2017

Method Reference(s): SM 4500 P E
Subcontractor ELAP ID: 11148

Semi-Volatile Organics (Acid/Base Neutrals)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,2,4-Trichlorobenzene	< 10.0	ug/L		4/3/2017 21:12
1,2-Dichlorobenzene	< 10.0	ug/L		4/3/2017 21:12
1,3-Dichlorobenzene	< 10.0	ug/L		4/3/2017 21:12
1,4-Dichlorobenzene	< 10.0	ug/L		4/3/2017 21:12
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		4/3/2017 21:12
2,4,6-Trichlorophenol	< 10.0	ug/L		4/3/2017 21:12
2,4-Dichlorophenol	< 10.0	ug/L		4/3/2017 21:12
2,4-Dimethylphenol	< 10.0	ug/L		4/3/2017 21:12

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Lab Project ID: 171267

Client: Pinto Construction

Project Reference: Flexo

Sample Identifier:	Flexo Dewater		
Lab Sample ID:	171267-01	Date Sampled:	3/28/2017
Matrix:	Wastewater	Date Received:	3/30/2017
2,4-Dinitrophenol	< 20.0	ug/L	4/3/2017 21:12
2,4-Dinitrotoluene	< 10.0	ug/L	4/3/2017 21:12
2,6-Dinitrotoluene	< 10.0	ug/L	4/3/2017 21:12
2-Chloronaphthalene	< 10.0	ug/L	4/3/2017 21:12
2-Chlorophenol	< 10.0	ug/L	4/3/2017 21:12
2-Nitrophenol	< 10.0	ug/L	4/3/2017 21:12
3,3'-Dichlorobenzidine	< 10.0	ug/L	4/3/2017 21:12
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	4/3/2017 21:12
4-Bromophenyl phenyl ether	< 10.0	ug/L	4/3/2017 21:12
4-Chloro-3-methylphenol	< 10.0	ug/L	4/3/2017 21:12
4-Chlorophenyl phenyl ether	< 10.0	ug/L	4/3/2017 21:12
4-Nitrophenol	< 20.0	ug/L	4/3/2017 21:12
Acenaphthene	< 10.0	ug/L	4/3/2017 21:12
Acenaphthylene	< 10.0	ug/L	4/3/2017 21:12
Anthracene	< 10.0	ug/L	4/3/2017 21:12
Benzidine	< 20.0	ug/L	4/3/2017 21:12
Benzo (a) anthracene	< 10.0	ug/L	4/3/2017 21:12
Benzo (a) pyrene	< 10.0	ug/L	4/3/2017 21:12
Benzo (b) fluoranthene	< 10.0	ug/L	4/3/2017 21:12
Benzo (g,h,i) perylene	< 10.0	ug/L	4/3/2017 21:12
Benzo (k) fluoranthene	< 10.0	ug/L	4/3/2017 21:12
Bis (2-chloroethoxy) methane	< 10.0	ug/L	4/3/2017 21:12
Bis (2-chloroethyl) ether	< 10.0	ug/L	4/3/2017 21:12
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	4/3/2017 21:12
Butylbenzylphthalate	< 10.0	ug/L	4/3/2017 21:12
Chrysene	< 10.0	ug/L	4/3/2017 21:12
Dibenz (a,h) anthracene	< 10.0	ug/L	4/3/2017 21:12
Diethyl phthalate	< 10.0	ug/L	4/3/2017 21:12
Dimethyl phthalate	< 20.0	ug/L	4/3/2017 21:12
Di-n-butyl phthalate	< 10.0	ug/L	4/3/2017 21:12
Di-n-octylphthalate	< 10.0	ug/L	4/3/2017 21:12
Fluoranthene	< 10.0	ug/L	4/3/2017 21:12

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Client: Pinto Construction

Project Reference: Flexo

Sample Identifier: Flexo Dewater

Lab Sample ID: 171267-01

Date Sampled: 3/28/2017

Matrix: Wastewater

Date Received: 3/30/2017

Fluorene	< 10.0	ug/L	4/3/2017	21:12
Hexachlorobenzene	< 10.0	ug/L	4/3/2017	21:12
Hexachlorobutadiene	< 10.0	ug/L	4/3/2017	21:12
Hexachlorocyclopentadiene	< 10.0	ug/L	4/3/2017	21:12
Hexachloroethane	< 10.0	ug/L	4/3/2017	21:12
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	4/3/2017	21:12
Isophorone	< 10.0	ug/L	4/3/2017	21:12
Naphthalene	< 10.0	ug/L	4/3/2017	21:12
Nitrobenzene	< 10.0	ug/L	4/3/2017	21:12
N-Nitrosodimethylamine	< 10.0	ug/L	4/3/2017	21:12
N-Nitroso-di-n-propylamine	< 10.0	ug/L	4/3/2017	21:12
N-Nitrosodiphenylamine	< 10.0	ug/L	4/3/2017	21:12
Pentachlorophenol	< 20.0	ug/L	4/3/2017	21:12
Phenanthrene	< 10.0	ug/L	4/3/2017	21:12
Phenol	< 10.0	ug/L	4/3/2017	21:12
Pyrene	< 10.0	ug/L	4/3/2017	21:12

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	86.4	34.4 - 131		4/3/2017 21:12
2-Fluorobiphenyl	50.4	42.2 - 110		4/3/2017 21:12
2-Fluorophenol	44.2	10 - 102		4/3/2017 21:12
Nitrobenzene-d5	67.3	52.3 - 98.6		4/3/2017 21:12
Phenol-d5	31.6	10 - 103		4/3/2017 21:12
Terphenyl-d14	79.1	61.3 - 108		4/3/2017 21:12

Method Reference(s): EPA 625
Preparation Date: 3/31/2017
Data File: B18463.D

Total Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Solids	900	mg/L		4/3/2017

Method Reference(s): SM 2540 B
Subcontractor ELAP ID: 11148



Client: Pinto Construction

Project Reference: Flexo

Sample Identifier: Flexo Dewater

Lab Sample ID: 171267-01

Date Sampled: 3/28/2017

Matrix: Wastewater

Date Received: 3/30/2017

Total Dissolved Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Solids, Dissolved	800	mg/L		3/31/2017
Method Reference(s):	SM 2540 C			
Subcontractor ELAP ID:	11148			

Total Suspended Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Solids, Suspended	11	mg/L		3/30/2017
Method Reference(s):	SM 2540 D			
Subcontractor ELAP ID:	11148			

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		3/31/2017 20:01
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		3/31/2017 20:01
1,1,2-Trichloroethane	< 2.00	ug/L		3/31/2017 20:01
1,1-Dichloroethane	< 2.00	ug/L		3/31/2017 20:01
1,1-Dichloroethene	< 2.00	ug/L		3/31/2017 20:01
1,2-Dichlorobenzene	< 2.00	ug/L		3/31/2017 20:01
1,2-Dichloroethane	< 2.00	ug/L		3/31/2017 20:01
1,2-Dichloropropane	< 2.00	ug/L		3/31/2017 20:01
1,3-Dichlorobenzene	< 2.00	ug/L		3/31/2017 20:01
1,4-Dichlorobenzene	< 2.00	ug/L		3/31/2017 20:01
2-Chloroethyl vinyl Ether	< 10.0	ug/L		3/31/2017 20:01
Benzene	< 1.00	ug/L		3/31/2017 20:01
Bromodichloromethane	< 2.00	ug/L		3/31/2017 20:01
Bromoform	< 5.00	ug/L		3/31/2017 20:01
Bromomethane	< 2.00	ug/L		3/31/2017 20:01
Carbon Tetrachloride	< 2.00	ug/L		3/31/2017 20:01
Chlorobenzene	< 2.00	ug/L		3/31/2017 20:01
Chloroethane	< 2.00	ug/L		3/31/2017 20:01

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Pinto Construction

Project Reference: Flexo

Sample Identifier: Flexo Dewater

Lab Sample ID: 171267-01

Date Sampled: 3/28/2017

Matrix: Wastewater

Date Received: 3/30/2017

Chloroform	< 2.00	ug/L	3/31/2017	20:01
Chloromethane	< 2.00	ug/L	3/31/2017	20:01
cis-1,3-Dichloropropene	< 2.00	ug/L	3/31/2017	20:01
Dibromochloromethane	< 2.00	ug/L	3/31/2017	20:01
Ethylbenzene	< 2.00	ug/L	3/31/2017	20:01
Methylene chloride	< 5.00	ug/L	3/31/2017	20:01
Tetrachloroethene	< 2.00	ug/L	3/31/2017	20:01
Toluene	< 2.00	ug/L	3/31/2017	20:01
trans-1,2-Dichloroethene	< 2.00	ug/L	3/31/2017	20:01
trans-1,3-Dichloropropene	< 2.00	ug/L	3/31/2017	20:01
Trichloroethene	< 2.00	ug/L	3/31/2017	20:01
Trichlorofluoromethane	< 2.00	ug/L	3/31/2017	20:01
Vinyl chloride	< 2.00	ug/L	3/31/2017	20:01

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	89.7	77.8 - 124		3/31/2017 20:01
4-Bromofluorobenzene	94.8	78 - 117		3/31/2017 20:01
Pentafluorobenzene	102	83.2 - 118		3/31/2017 20:01
Toluene-D8	97.1	83.7 - 116		3/31/2017 20:01

Method Reference(s): EPA 624

Data File: x40389.D

The analyte 2-Chloroethyl vinyl Ether does not recover from acid preserved VOA vials.

SGT - HEM

Analyte	Result	Units	Qualifier	Date Analyzed
Total Petroleum Hydrocarbon (Silica Gel / HEM)	<5.38	mg/L		4/3/2017

Method Reference(s): EPA 1664B

Preparation Date: 4/3/2017

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.0100	mg/L		4/4/2017 14:31

Method Reference(s): SM22 4500 CN E

Preparation Date: 4/4/2017

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Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.

"E" = Result has been estimated, calibration limit exceeded.

"Z" = See case narrative.

"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.

"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.

"B" = Method blank contained trace levels of analyte. Refer to included method blank report.

"J" = Result estimated between the quantitation limit and half the quantitation limit.

"L" = Laboratory Control Sample recovery outside accepted QC limits.

"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.

"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.

***" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*

"(1)" = Indicates data from primary column used for QC calculation.

"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.

"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

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GENERAL TERMS AND CONDITIONS

LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation.

LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.

Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility.

LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



CHAIN OF CUSTODY

1 of 2

REPORT TO: Puro Construction
CLIENT: Puro Construction
ADDRESS: Asbeck St.
CITY: Buffalo **STATE:** NY **ZIP:**
PHONE: 716-622-8412
ATTN: Bob Brown Field

INVOICE TO: Same
CLIENT: Same
ADDRESS:
CITY: **STATE:** **ZIP:**
PHONE:
ATTN:

LAB PROJECT ID: 171267
Quotation #:
Email:

PROJECT REFERENCE: Flexo

Matrix Codes:
 AQ - Aqueous Liquid WA - Water DW - Drinking Water SQ - Soil
 NA - Non-Aqueous Liquid WG - Groundwater WW - Wastewater SL - Sludge

REQUESTED ANALYSIS:
 SD - Solid WP - Wipe OL - Oil
 PT - Paint CK - Caulk AR - Air

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GARB	SAMPLE IDENTIFIER	MATRIX	CONTAINER TYPE	ANALYSIS	REMARKS	PARADIGM LAB SAMPLE NUMBER
3/28/17	3:15		K	Flexo Deleter	NW	13	X X X X X X X X X X EPA 624 EPA 625 PPL Metals PCB/Pest TSS/TDS/TS PH T. Phosphate T.Cn BOD T.TENT Hydrocarbon	Sub sent direct to Sub Lab. of 3/30/17	01

Turnaround Time: Availability contingent upon lab approval; additional fees may apply.

Report Supplements:

Standard 5 day	<input checked="" type="checkbox"/>	None Required	<input type="checkbox"/>	None Required	<input type="checkbox"/>
10 day	<input type="checkbox"/>	Batch QC	<input type="checkbox"/>	Basic EDD	<input type="checkbox"/>
Rush 3 day	<input type="checkbox"/>	Category A	<input type="checkbox"/>	NYSDEC EDD	<input type="checkbox"/>
Rush 2 day	<input type="checkbox"/>	Category B	<input type="checkbox"/>		
Rush 1 day	<input type="checkbox"/>	Other	<input type="checkbox"/>	Other EDD	<input type="checkbox"/>

Other: Results 4/5/17

please indicate date needed: 4/5/17

please indicate package needed:

please indicate EDD needed:

Sampled By: [Signature] Date/Time: 3-28-17 3:30 PM Total Cost: [Box]

Relinquished By: [Signature] Date/Time: 3-28-17 3:45 PM

Received By: [Signature] Date/Time: 3/30/17 13:40 P.I.F. [Box]

Received @ Lab By: [Signature] Date/Time: 3/30/17 09:14

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).



Chain of Custody Supplement

Client: Pinto Construction Completed by: Glenn Pezzullo
 Lab Project ID: 171267 Date: 3/30/17

Sample Condition Requirements
 Per NELAC/ELAP 210/241/242/243/244

Condition	<i>NELAC compliance with the sample condition requirements upon receipt</i>		
	Yes	No	N/A
Container Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Transferred to method-compliant container	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Headspace (<1 mL)	<input checked="" type="checkbox"/> VOA	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Preservation	<input checked="" type="checkbox"/> VOA metals TCW	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Chlorine Absent (<0.10 ppm per test strip)	<input checked="" type="checkbox"/> 625 SVA 608 Per+ 624 VOA: C1 - neg.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Holding Time	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> pH	<input type="checkbox"/>
Comments	_____		
Temperature	<input checked="" type="checkbox"/> 3° Ciced	<input type="checkbox"/>	<input checked="" type="checkbox"/> metals pH
Comments	_____		
Sufficient Sample Quantity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	Samples for TSS, TDS, T-Solids, T-Phos, BOD sent directly to sub lab.		

CHAIN OF CUSTODY

L170937C 148071



REPORT TO: INVOICE TO:

COMPANY: Paradigm Environmental	ADDRESS: 179 Lake Avenue	CITY: Rochester	STATE: NY	ZIP: 14608	PHONE: (585) 647-2530	FAX: (585) 647-3311
COMPANY: Same	ADDRESS: Same	CITY: Rochester	STATE: NY	ZIP: 14608	PHONE: (585) 647-2530	FAX: (585) 647-3311
ATTN: Kate Hansen	ATTN: Meridith Dillman	LAB PROJECT #: CLIENT PROJECT #:				
COMMENTS: Please email results to khansen@paradigmenv.com and reporting@paradigmenv.com						

PROJECT NAME/SITE NAME: Flexo

REQUESTED ANALYSIS

Date Due: 3/29/17

TURNAROUND TIME (WORKING DAYS)
 1 2 3 4 5 OTHER

DATE	TIME	COMPOSITE	G R A B	SAMPLE LOCATION/FIELD ID	M A T R I X	C O N T A M I N A N T S	REMARKS	PARADIGM LAB SAMPLE NUMBER
3/28/17	5:15		X	Flexo Dewater	WW	TSS TDS / T. Solid T. Phosphate BOD		

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter: _____

Container Type: _____

Comments: _____

Preservation: _____

Holding Time: _____

Comments: _____

Comments: 3.9°C Temperature: _____

Comments: 3.9°C per S&B Lab _____

NECAC Compliance

Y N

Y N

Y N

Y N

Y N

Client: _____

Sampled By: _____ Date/Time: 3/28/17

Relinquished By: _____ Date/Time: 3/29/17

Received By: _____ Date/Time: 3/28/17 16:10

Relinquished By: _____ Date/Time: 3/29/17 8:30

Received By: _____ Date/Time: 3/29/17 8:30

Received @ Lab By: _____ Date/Time: _____

Total Cost: _____

PLF: _____

JSD 4/6/17

NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number

2. Page 1 of 1

3. Emergency Response Phone

4. Waste Tracking Number

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Flato
~~1432 Seneca Street~~ 28 Wasson Street
Buffalo, NY 14210
Generator's Phone:

6. Transporter 1 Company Name

U.S. EPA ID Number

Environmental Service Group, Inc 716.695.6720

NYD986903904

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

U.S. EPA ID Number

American Recyclers Company
177 Hales Avenue
Tonawanda, NY 14150
Facility's Phone:

716.695.6720

NYR000030809

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

1. Non RCRA Non DOT Regulated, (~~Ground Water~~)
Excavation water

No. Type
001 TT

4960 G

EXACT

13. Special Handling Instructions and Additional Information

ERG:

Approval #:

Handling Codes:

1 - 1 - H-123961W
2 - 2 -
3 - 3 -
4 - 4 -

1 - None
2 -
3 -
4 -

24 Hour Emergency Contact:
INFOTRAC (Caller Must ID
RSG)

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name

Signature

Month Day Year

Jeff Bragg (CALLER) On Behalf of Flato Transport

Jeff Bragg

05 10 17

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Barry McCollum

Barry McCollum

05 10 17

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17c

Printed/Typed Name

Signature

Month Day Year

Julian Mastropoli

Julian Mastropoli

05 10 17

DESIGNATED FACILITY TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of 1

3. Emergency Response Phone

4. Waste Tracking Number

1

800-535-5053

24142

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Floco
1432 Seneca Street
Buffalo, NY 14210
28 Wasson ST

6. Transporter 1 Company Name

U.S. EPA ID Number

Environmental Service Group, Inc

716.695.6720

NYD986903904

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

U.S. EPA ID Number

American Recyclers Company
177 Wales Avenue
Tonawanda, NY 14150

716.695.6720

NYR000030809

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

No.

Type

1. ~~Non-RCRA Non DOT Regulated (Ground Water)~~
Non-RCRA Non DOT Regulated Excavation water 2001 TT

1045 G

Exact

13. Special Handling Instructions and Additional Information

ERG:

Approval #:

Handling Codes:

1 - H-123961M
2 -
3 -
4 -

1 - None
2 -
3 -
4 -

24 Hour Emergency Contact:
INFOFRAC (Caller Must ID
ESG)

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offor's Printed/Typed Name

Signature

Month Day Year

Jeff Blawie (ARCADIS) On Behalf of Floco Transport

[Signature]

05 10 17

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Michael W Peterson

[Signature]

05 10 17

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

17b. Alternate Facility (or Generator)

Manifest Reference Number:

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator. Certification of receipt of materials covered by the manifest except as noted in Item 17c.

Printed/Typed Name

Signature

Month Day Year

Sylvia Mastropoli

[Signature]

10 5 17

DESIGNATED FACILITY TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of 1

3. Emergency Response Phone
800-535-5053

4. Waste Tracking Number
24126

5. Generator's Name and Mailing Address

Flaco
4432 Seneca Street 28 Wasson St
Buffalo, NY 14210

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name

Environmental Service Group, Inc **716.695.6720**

U.S. EPA ID Number

NYD986903904

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

American Recyclers Company
177 Wales Avenue
Tonawanda, NY 14150

U.S. EPA ID Number

Facility's Phone:

716.695.6720

NYR000030809

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

1. ~~Non-RCRA Non-DOT Regulated, (Ground Water)~~
Non-RCRA Non-DOT Regulated Excavation Waste

2000 1 TT

4165 G

13. Special Handling Instructions and Additional Information

ERG:

Approval #:

Handling Codes:

- 1 - **H-12396IN**
- 2 -
- 3 -
- 4 -

- 1 - **None**
- 2 -
- 3 -
- 4 -

24 Hour Emergency Contact:
INFOTRAC (Caller Must ID
ESG)

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name

Signature

Month Day Year

Steve Brown/ARCADIS on Behalf of Flaco Transport

[Signature]

05 10 17

15. International Shipments Import to U.S. Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Michael W Peterson

[Signature]

05 10 17

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

17b. Alternate Facility (or Generator)

Manifest Reference Number:

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 7.

Printed/Typed Name

Signature

Month Day Year

Sullivan Mastropoll

[Signature]

05 10 17

DESIGNATED FACILITY TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of 1

3. Emergency Response Phone

4. Waste Tracking Number

1

800-535-5053

24127

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Flexo
1132 Service Street *Box 28 Warsaw NY*
Buffalo, NY 14210

Generator's Phone:

6. Transporter 1 Company Name

Environmental Service Group, Inc

716.695.6720

U.S. EPA ID Number

NYD986903904

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

American Recyclers Company
177 Wales Avenue
Tonawanda, NY 14150

U.S. EPA ID Number

Facility's Phone:

716.695.6720

NYR000030809

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

No.

Type

1. ~~Non RCRA Non DOT Regulated, (Ground Water) P&P~~
Non RCRA Non DOT Regulated (Ground Water) P&P

41683

Exact

13. Special Handling Instructions and Additional Information

ERG:

Approval #:

Handling Codes:

- 1 -
- 2 -
- 3 -
- 4 -

- 1 - H-12396IM
- 2 -
- 3 -
- 4 -

- 1 - None
- 2 -
- 3 -
- 4 -

24 Hour Emergency Contact:
INFOTRAC (Caller Must ID ESG)

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Officer's Printed/Typed Name

Signature

Month Day Year

Jeff Bahr On Behalf of Flexo Transport

Jeff Bahr (CALLED)

05 10 17

15. International Shipments Import to U.S. Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Michael W Peterson

[Signature]

05 10 17

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

Sullivan Mastropoli

[Signature]

05 10 17

DESIGNATED FACILITY TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number

1

800-535-5053

24128

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Flaco
1432 Seneca Street 2B Wasson St
Buffalo, NY 14210

Generator's Phone:

6. Transporter 1 Company Name

U.S. EPA ID Number

Environmental Service Group, Inc 716.695.6720

NYD986903904

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

U.S. EPA ID Number

American Recyclers Company
177 Wales Avenue
Tonawanda, NY 14150

716.695.6720

NYR000030809

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

No.

Type

~~Non-RCRA Non-DOE Regulated (Ground Water)~~

Non-RCRA Non-DOE Regulated EXCAVATION WATER

001

JT

5522

G

4398 exact

2					
3					
4					

13. Special Handling Instructions and Additional Information

Handling Codes:

ERG:

Approval #:

1 - 1-H-123961M
 2 -
 3 -
 4 -

1 - None
 2 -
 3 -
 4 -

24 Hour Emergency Contact:
INFOTRAC (Caller Must ID ESG)

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offoror's Printed/Typed Name

Signature

Month Day Year

Jeff Baker, ARCADES on Behalf of Flaco Transport

[Signature]

05 | 10 | 17

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Barry McCallum

[Signature]

05 | 10 | 17

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator. Certification of receipt of materials covered by the manifest except as noted in Item 17a.

Printed/Typed Name

Signature

Month Day Year

Sulian Mastropoli

[Signature]

05 | 10 | 17

DESIGNATED FACILITY TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number

1

800-535-5053

24129

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Floco
~~1402 Sango Street~~ 28 Wesson Street
 Buffalo, NY 14210

Generator's Phone:

6. Transporter 1 Company Name

U.S. EPA ID Number

Environmental Service Group, Inc

716.695.6720

NYD986903904

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

U.S. EPA ID Number

American Recyclers Company
 177 Wales Avenue
 Tonawanda, NY 14150

716.695.6720

NYR000030809

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

No. Type

1. ~~Non RCRA Non DOT regulated, (Ground Water)~~
 Non RCRA Non DOT Regulated Excavation Water

001

TT

5700 est.

G

5900 exact

13. Special Handling Instructions and Additional Information

Handling Codes:

24 Hour Emergency Contact:

ERG:

Approval #:

- 1 - 1 - H-12396IM
- 2 - 2 -
- 3 - 3 -
- 4 - 4 -

- 1 - None
- 2 -
- 3 -
- 4 -

INFOTRAC (Caller Must ID ESG)

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offor's Printed/Typed Name

Signature

Month Day Year

John Bader on Behalf of Floco Transport

[Signature]

05 10 17

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Barry McCallum

[Signature]

05 10 17

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator. Certification of receipt of materials covered by the manifest except as noted in item 17a

Printed/Typed Name

Signature

Month Day Year

Sulian Mastropoli

[Signature]

05 10 17

DESIGNATED FACILITY TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 800-535-5053	4. Waste Tracking Number 24215
5. Generator's Name and Mailing Address Flexo 4432 Seneca Street 28 Watson Street Buffalo, NY 14210 Generator's Phone:					
6. Transporter 1 Company Name Environmental Service Group, Inc				U.S. EPA ID Number NYD986903904	
7. Transporter 2 Company Name				U.S. EPA ID Number	
8. Designated Facility Name and Site Address American Recyclers Company 177 Hales Avenue Tonawanda, NY 14150 Facility's Phone:				U.S. EPA ID Number NYR000030809	
9. Waste Shipping Name and Description			10. Containers		11. Total Quantity
			No.	Type	12. Unit Wt./Vol.
1. Non RCRA Non DOT Regulated, (Ground Water) EXCAVATION WATER			001	TT	05725 Gal.
					52376 exact
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information					
ERG:		Approval #:		Handling Codes:	
1 -	1 - H-123961N	1 -	None	24 Hour Emergency Contact:	
2 -	2 -	2 -		INFOTRAC (Caller Must ID	
3 -	3 -	3 -		ESG)	
4 -	4 -	4 -			
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Offeror's Printed/Typed Name Jeff Braxi, ARCADES on Behalf of Flexo Transport			Signature <i>Jeff Braxi</i>		Month Day Year 05 22 17
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Sean P. Winter			Signature <i>Sean P. Winter</i>		Month Day Year 05 22 17
Transporter 2 Printed/Typed Name			Signature		Month Day Year
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
17b. Alternate Facility (or Generator) U.S. EPA ID Number					
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator) Month Day Year					
18. Designated Facility Owner or Operator. Certification of receipt of materials covered by the manifest except as noted in item 17a					
Printed/Typed Name Sulian Mastropoli			Signature <i>Sulian Mastropoli</i>		Month Day Year 05 22 17

GENERATOR

INTL

TRANSPORTER

DESIGNATED FACILITY

DESIGNATED FACILITY TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 800-535-5053	4. Waste Tracking Number 24216
5. Generator's Name and Mailing Address Flexo 4132 Seneca Street 28 Wassen St. Buffalo, NY 14210		Generator's Site Address (if different than mailing address)		
6. Transporter 1 Company Name Environmental Service Group, Inc		716.695.6720		U.S. EPA ID Number NYD986903904
7. Transporter 2 Company Name		U.S. EPA ID Number		
8. Designated Facility Name and Site Address American Recyclers Company 177 Walas Avenue Tonawanda, NY 14150		716.695.6720		U.S. EPA ID Number NYR000030809
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity
		No.	Type	12. Unit Wt./Vol.
1. Non RCRA Non DOT Regulated, (Ground-Water) Excavated water		001	TT	05500 G
2.				
3.				
4.				
13. Special Handling Instructions and Additional Information		Handling Codes:		
ERG: Approval #: 1 - H-12396IN		1 - None 24 Hour Emergency Contact:		
2 - 2 -		2 - INFOTRAC (Caller Must ID		
3 - 3 -		3 - ESG)		
4 - 4 -		4 -		
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.				
Generator's/Offlor's Printed/Typed Name Daniel Steger		Signature <i>Daniel Steger</i>		Month Day Year 5 22 17
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:				
16. Transporter Acknowledgment of Receipt of Materials				
Transporter 1 Printed/Typed Name Sean P. Winter		Signature <i>Sean P. Winter</i>		Month Day Year 05 22 17
Transporter 2 Printed/Typed Name		Signature		Month Day Year
17. Discrepancy				
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection				
Manifest Reference Number:				
17b. Alternate Facility (or Generator)				U.S. EPA ID Number
Facility's Phone:				
17c. Signature of Alternate Facility (or Generator)				Month Day Year
18. Designated Facility Owner or Operator. Certification of receipt of materials covered by the manifest except as noted in Item 17a				
Printed/Typed Name Sulian Mostropoli		Signature <i>Sulian Mostropoli</i>		Month Day Year 05 22 17

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

DESIGNATED FACILITY TO GENERATOR

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number

2. Page 1 of 1

3. Emergency Response Phone

4. Waste Tracking Number

1

800-535-5053

24217

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Flinto
4192 Service Street 28 Wasson St.
Buffalo, NY 14210
Generator's Phone:

6. Transporter 1 Company Name

U.S. EPA ID Number

Environmental Service Group, Inc 716.695.6720

NYD986903904

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

U.S. EPA ID Number

American Recyclers Company
177 Wales Avenue
Tonawanda, NY 14150
Facility's Phone: 716.695.6720

NYR000030809

9. Waste Shipping Name and Description

10. Containers

11 Total

12. Unit

No. Type

Quantity

Wt./Vol.

Non RCRA Non DOT Regulated, (Ground Water)
(Excavation water)

001 TT

1100

G

EXACT

13. Special Handling Instructions and Additional Information

ERG:

Approval #:

Handling Codes:

1 - 1 - H-12396IM
2 - 2 -
3 - 3 -
4 - 4 -

1 - None
2 -
3 -
4 -

24 Hour Emergency Contact:
INFOTRAC (Caller Must ID
ESG)

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offoror's Printed/Typed Name

KATHERINE CLUBINE BEHALF OF FLEAV

Signature

[Signature]

Month Day Year
5 23 17

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Barry McCallum

Signature

[Signature]

Month Day Year
05 23 17

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator. Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Sylvan Mastropoli

Signature

[Signature]

Month Day Year
10 5 17

DESIGNATED FACILITY TO GENERATOR

APPENDIX D

Re-Use Analytical Data



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-115334-1

Client Project/Site: Flexo Transparent

For:

ARCADIS U.S. Inc

50 Fountain Plaza

Suite 600

Buffalo, New York 14202

Attn: Katherine Clubine



Authorized for release by:

4/6/2017 4:05:48 PM

Rebecca Jones, Project Management Assistant I

rebecca.jones@testamericainc.com

Designee for

Melissa Deyo, Project Manager I

(716)504-9874

melissa.deyo@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
K	Benzo (b&k) fluoranthene are unresolved due to matrix, result is reported as Benzo(b)fluoranthene.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Job ID: 480-115334-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-115334-1

Receipt

The samples were received on 3/30/2017 4:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.2° C.

GC/MS VOA

Method(s) 8260C: Reported analyte concentrations in the following samples are below 200 ug/kg and may be biased low due to the samples not being collected according to 5035-L/5035A-L low-level specifications: WATER LINE TRENCH (480-115334-1), ELECTRIC LINE TRENCH (480-115334-2), STORMWATER BASIN (480-115334-3), FIRE LANE (480-115334-4), (480-115334-B-1-B MS) and (480-115334-B-1-C MSD).

Method(s) 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-349673 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 following sample was diluted due to appearance and viscosity: WATER LINE TRENCH (480-115334-1) and ELECTRIC LINE TRENCH (480-115334-2). Elevated reporting limits (RL) are provided.

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

GC Semi VOA

Method(s) 8151A: The continuing calibration verification (CCV) associated with batch 480-350190 recovered above the upper control limit for Silvex (2,4,5-TP) and 2,4-Dichlorophenylacetic acid. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: WATER LINE TRENCH (480-115334-1), ELECTRIC LINE TRENCH (480-115334-2), STORMWATER BASIN (480-115334-3) and FIRE LANE (480-115334-4).

Method(s) 8081B: The following sample was diluted due to the nature of the sample matrix: STORMWATER BASIN (480-115334-3) and FIRE LANE (480-115334-4). Elevated reporting limits (RLs) are provided.

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 480-349931/39) contained Total Manganese outside the control limits. The reported sample FIRE LANE (480-115334-4) associated with this CCVL was either below the laboratory's standard reporting limit for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of the sample was not performed.

Method(s) 6010C: The following sample was diluted due to the presence of Total Calcium which interferes with Copper: STORMWATER BASIN (480-115334-3). Elevated reporting limits (RLs) are provided.

Method(s) 6010C: The following sample was diluted for Total Selenium due to the nature of the sample matrix: STORMWATER BASIN (480-115334-3). Elevated reporting limits (RLs) are provided.

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

General Chemistry

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

Organic Prep

Method(s) 3550C: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: WATER LINE

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Job ID: 480-115334-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

TRENCH (480-115334-1), ELECTRIC LINE TRENCH (480-115334-2), STORMWATER BASIN (480-115334-3) and FIRE LANE (480-115334-4).

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

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Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Client Sample ID: WATER LINE TRENCH

Lab Sample ID: 480-115334-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.40	J	6.4	0.40	ug/Kg	1	☼	8260C	Total/NA
Benzo(a)anthracene	140	J	1100	110	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	260	J	1100	120	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	160	J	1100	160	ug/Kg	5	☼	8270D	Total/NA
Pyrene	190	J	1100	130	ug/Kg	5	☼	8270D	Total/NA
4,4'-DDE	0.93	J	2.1	0.45	ug/Kg	1	☼	8081B	Total/NA
4,4'-DDT	1.2	J	2.1	0.50	ug/Kg	1	☼	8081B	Total/NA
Endosulfan II	0.83	J	2.1	0.38	ug/Kg	1	☼	8081B	Total/NA
Arsenic	10.1		2.8	0.56	mg/Kg	1	☼	6010C	Total/NA
Barium	130		0.70	0.15	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.82		0.28	0.039	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.46		0.28	0.042	mg/Kg	1	☼	6010C	Total/NA
Copper	74.2		1.4	0.29	mg/Kg	1	☼	6010C	Total/NA
Lead	180		1.4	0.33	mg/Kg	1	☼	6010C	Total/NA
Manganese	364	B	0.28	0.044	mg/Kg	1	☼	6010C	Total/NA
Nickel	87.5		7.0	0.32	mg/Kg	1	☼	6010C	Total/NA
Silver	0.72	J	0.83	0.28	mg/Kg	1	☼	6010C	Total/NA
Zinc	232		2.8	0.89	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.30		0.027	0.011	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.97	J B F1	1.2	0.56	mg/Kg	1	☼	9012B	Total/NA
Chromium, trivalent	21.7		1.5	0.63	mg/Kg	1		SM 3500 CR D	Total/NA

Client Sample ID: ELECTRIC LINE TRENCH

Lab Sample ID: 480-115334-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	150		31	5.3	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.45	J	6.3	0.39	ug/Kg	1	☼	8260C	Total/NA
Methyl Ethyl Ketone	33		31	2.3	ug/Kg	1	☼	8260C	Total/NA
Benzo(g,h,i)perylene	180	J	1100	110	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	140	J	1100	110	ug/Kg	5	☼	8270D	Total/NA
Pyrene	270	J	1100	130	ug/Kg	5	☼	8270D	Total/NA
Arsenic	12.4		2.4	0.49	mg/Kg	1	☼	6010C	Total/NA
Barium	97.2		0.61	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	1.1		0.24	0.034	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.35		0.24	0.037	mg/Kg	1	☼	6010C	Total/NA
Copper	34.7		1.2	0.26	mg/Kg	1	☼	6010C	Total/NA
Lead	50.7		1.2	0.29	mg/Kg	1	☼	6010C	Total/NA
Manganese	153	B	0.24	0.039	mg/Kg	1	☼	6010C	Total/NA
Nickel	14.6		6.1	0.28	mg/Kg	1	☼	6010C	Total/NA
Selenium	2.2	J	4.9	0.49	mg/Kg	1	☼	6010C	Total/NA
Zinc	57.6		2.4	0.78	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.14		0.026	0.011	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.5	B	1.2	0.60	mg/Kg	1	☼	9012B	Total/NA
Chromium, trivalent	13.3		1.5	0.63	mg/Kg	1		SM 3500 CR D	Total/NA

Client Sample ID: STORMWATER BASIN

Lab Sample ID: 480-115334-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo(a)anthracene	20	J	180	18	ug/Kg	1	☼	8270D	Total/NA
Benzo(b)fluoranthene	34	J K	180	29	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Client Sample ID: STORMWATER BASIN (Continued)

Lab Sample ID: 480-115334-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	41	J	180	19	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	28	J	180	26	ug/Kg	1	☼	8270D	Total/NA
Pyrene	33	J	180	21	ug/Kg	1	☼	8270D	Total/NA
PCB-1254	2.0		0.19	0.089	mg/Kg	1	☼	8082A	Total/NA
PCB-1260	0.55		0.19	0.089	mg/Kg	1	☼	8082A	Total/NA
Arsenic	8.8		2.2	0.44	mg/Kg	1	☼	6010C	Total/NA
Barium	9.3		0.54	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.16	J	0.22	0.030	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.20	J	0.22	0.033	mg/Kg	1	☼	6010C	Total/NA
Copper	2.7		2.2	0.46	mg/Kg	2	☼	6010C	Total/NA
Lead	23.7		1.1	0.26	mg/Kg	1	☼	6010C	Total/NA
Manganese	375	B	0.22	0.035	mg/Kg	1	☼	6010C	Total/NA
Nickel	5.7		5.4	0.25	mg/Kg	1	☼	6010C	Total/NA
Zinc	26.0		2.2	0.70	mg/Kg	1	☼	6010C	Total/NA
Chromium, trivalent	5.0		1.5	0.63	mg/Kg	1		SM 3500 CR D	Total/NA

Client Sample ID: FIRE LANE

Lab Sample ID: 480-115334-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	34		29	4.8	ug/Kg	1	☼	8260C	Total/NA
Benzo(a)anthracene	120	J	190	19	ug/Kg	1	☼	8270D	Total/NA
Benzo(a)pyrene	110	J	190	29	ug/Kg	1	☼	8270D	Total/NA
Benzo(b)fluoranthene	180	J	190	31	ug/Kg	1	☼	8270D	Total/NA
Benzo(g,h,i)perylene	110	J	190	21	ug/Kg	1	☼	8270D	Total/NA
Benzo(k)fluoranthene	59	J	190	25	ug/Kg	1	☼	8270D	Total/NA
Chrysene	140	J	190	43	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	260		190	21	ug/Kg	1	☼	8270D	Total/NA
Indeno(1,2,3-cd)pyrene	98	J	190	24	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	48	J	190	25	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	180	J	190	29	ug/Kg	1	☼	8270D	Total/NA
Pyrene	190		190	23	ug/Kg	1	☼	8270D	Total/NA
Arsenic	5.6		2.4	0.49	mg/Kg	1	☼	6010C	Total/NA
Barium	126		0.61	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.78		0.24	0.034	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.31		0.24	0.036	mg/Kg	1	☼	6010C	Total/NA
Copper	15.5		1.2	0.26	mg/Kg	1	☼	6010C	Total/NA
Lead	46.4		1.2	0.29	mg/Kg	1	☼	6010C	Total/NA
Manganese	267	B ^	0.24	0.039	mg/Kg	1	☼	6010C	Total/NA
Nickel	13.0		6.1	0.28	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.2	J	4.9	0.49	mg/Kg	1	☼	6010C	Total/NA
Zinc	74.4		2.4	0.78	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.076		0.023	0.0092	mg/Kg	1	☼	7471B	Total/NA
Chromium, trivalent	14.1		1.5	0.63	mg/Kg	1		SM 3500 CR D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Client Sample ID: WATER LINE TRENCH

Lab Sample ID: 480-115334-1

Date Collected: 03/30/17 15:00

Matrix: Solid

Date Received: 03/30/17 16:40

Percent Solids: 77.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		6.4	0.47	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1
1,1-Dichloroethane	ND		6.4	0.78	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1
1,1-Dichloroethene	ND		6.4	0.79	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1
1,2,4-Trimethylbenzene	ND		6.4	1.2	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1
1,2-Dichlorobenzene	ND	F1	6.4	0.50	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1
1,2-Dichloroethane	ND		6.4	0.32	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1
1,3,5-Trimethylbenzene	ND		6.4	0.41	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1
1,3-Dichlorobenzene	ND	F1	6.4	0.33	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1
1,4-Dichlorobenzene	ND	F1	6.4	0.90	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1
1,4-Dioxane	ND		130	28	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1
Acetone	ND		32	5.4	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1
Benzene	ND		6.4	0.31	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1
Butylbenzene	ND	F1	6.4	0.56	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1
Carbon tetrachloride	ND		6.4	0.62	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1
Chlorobenzene	ND	F1	6.4	0.85	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1
Chloroform	0.40	J	6.4	0.40	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1
cis-1,2-Dichloroethene	ND	F1	6.4	0.82	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1
Ethylbenzene	ND	F1	6.4	0.44	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1
Methyl Ethyl Ketone	ND	F1	32	2.3	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1
Methyl tert-butyl ether	ND		6.4	0.63	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1
Methylene Chloride	ND		6.4	3.0	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1
Propylbenzene, n-	ND		6.4	0.51	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1
sec-Butylbenzene	ND		6.4	0.56	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1
tert-Butylbenzene	ND		6.4	0.67	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1
Tetrachloroethene	ND	F1	6.4	0.86	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1
Toluene	ND		6.4	0.49	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1
trans-1,2-Dichloroethene	ND	F1	6.4	0.66	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1
Trichloroethene	ND	F1	6.4	1.4	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1
Vinyl chloride	ND		6.4	0.78	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1
Xylenes, Total	ND	F1	13	1.1	ug/Kg	☼	03/31/17 09:34	03/31/17 13:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		64 - 126	03/31/17 09:34	03/31/17 13:02	1
4-Bromofluorobenzene (Surr)	95		72 - 126	03/31/17 09:34	03/31/17 13:02	1
Dibromofluoromethane (Surr)	92		60 - 140	03/31/17 09:34	03/31/17 13:02	1
Toluene-d8 (Surr)	94		71 - 125	03/31/17 09:34	03/31/17 13:02	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1100	160	ug/Kg	☼	03/31/17 14:31	04/03/17 15:08	5
Acenaphthylene	ND		1100	140	ug/Kg	☼	03/31/17 14:31	04/03/17 15:08	5
Anthracene	ND		1100	270	ug/Kg	☼	03/31/17 14:31	04/03/17 15:08	5
Benzo(a)anthracene	140	J	1100	110	ug/Kg	☼	03/31/17 14:31	04/03/17 15:08	5
Benzo(a)pyrene	ND		1100	160	ug/Kg	☼	03/31/17 14:31	04/03/17 15:08	5
Benzo(b)fluoranthene	ND		1100	170	ug/Kg	☼	03/31/17 14:31	04/03/17 15:08	5
Benzo(g,h,i)perylene	ND		1100	120	ug/Kg	☼	03/31/17 14:31	04/03/17 15:08	5
Benzo(k)fluoranthene	ND		1100	140	ug/Kg	☼	03/31/17 14:31	04/03/17 15:08	5
Chrysene	ND		1100	240	ug/Kg	☼	03/31/17 14:31	04/03/17 15:08	5
Dibenz(a,h)anthracene	ND		1100	190	ug/Kg	☼	03/31/17 14:31	04/03/17 15:08	5
Dibenzofuran	ND		1100	130	ug/Kg	☼	03/31/17 14:31	04/03/17 15:08	5

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Client Sample ID: WATER LINE TRENCH

Lab Sample ID: 480-115334-1

Date Collected: 03/30/17 15:00

Matrix: Solid

Date Received: 03/30/17 16:40

Percent Solids: 77.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	260	J	1100	120	ug/Kg	☼	03/31/17 14:31	04/03/17 15:08	5
Fluorene	ND		1100	130	ug/Kg	☼	03/31/17 14:31	04/03/17 15:08	5
Hexachlorobenzene	ND		1100	150	ug/Kg	☼	03/31/17 14:31	04/03/17 15:08	5
Indeno(1,2,3-cd)pyrene	ND		1100	140	ug/Kg	☼	03/31/17 14:31	04/03/17 15:08	5
m-Cresol	ND		2100	170	ug/Kg	☼	03/31/17 14:31	04/03/17 15:08	5
Naphthalene	ND		1100	140	ug/Kg	☼	03/31/17 14:31	04/03/17 15:08	5
o-Cresol	ND		1100	130	ug/Kg	☼	03/31/17 14:31	04/03/17 15:08	5
p-Cresol	ND		2100	130	ug/Kg	☼	03/31/17 14:31	04/03/17 15:08	5
Pentachlorophenol	ND		2100	1100	ug/Kg	☼	03/31/17 14:31	04/03/17 15:08	5
Phenanthrene	160	J	1100	160	ug/Kg	☼	03/31/17 14:31	04/03/17 15:08	5
Phenol	ND		1100	170	ug/Kg	☼	03/31/17 14:31	04/03/17 15:08	5
Pyrene	190	J	1100	130	ug/Kg	☼	03/31/17 14:31	04/03/17 15:08	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	102		54 - 120	03/31/17 14:31	04/03/17 15:08	5
2-Fluorobiphenyl	85		60 - 120	03/31/17 14:31	04/03/17 15:08	5
2-Fluorophenol	76		52 - 120	03/31/17 14:31	04/03/17 15:08	5
Nitrobenzene-d5	77		53 - 120	03/31/17 14:31	04/03/17 15:08	5
Phenol-d5	79		54 - 120	03/31/17 14:31	04/03/17 15:08	5
p-Terphenyl-d14	89		65 - 121	03/31/17 14:31	04/03/17 15:08	5

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.1	0.41	ug/Kg	☼	04/01/17 08:28	04/04/17 14:40	1
4,4'-DDE	0.93	J	2.1	0.45	ug/Kg	☼	04/01/17 08:28	04/04/17 14:40	1
4,4'-DDT	1.2	J	2.1	0.50	ug/Kg	☼	04/01/17 08:28	04/04/17 14:40	1
Aldrin	ND		2.1	0.52	ug/Kg	☼	04/01/17 08:28	04/04/17 14:40	1
alpha-BHC	ND		2.1	0.38	ug/Kg	☼	04/01/17 08:28	04/04/17 14:40	1
alpha-Chlordane	ND		2.1	1.1	ug/Kg	☼	04/01/17 08:28	04/04/17 14:40	1
beta-BHC	ND		2.1	0.38	ug/Kg	☼	04/01/17 08:28	04/04/17 14:40	1
delta-BHC	ND		2.1	0.39	ug/Kg	☼	04/01/17 08:28	04/04/17 14:40	1
Dieldrin	ND		2.1	0.51	ug/Kg	☼	04/01/17 08:28	04/04/17 14:40	1
Endosulfan I	ND		2.1	0.41	ug/Kg	☼	04/01/17 08:28	04/04/17 14:40	1
Endosulfan II	0.83	J	2.1	0.38	ug/Kg	☼	04/01/17 08:28	04/04/17 14:40	1
Endosulfan sulfate	ND		2.1	0.40	ug/Kg	☼	04/01/17 08:28	04/04/17 14:40	1
Endrin	ND		2.1	0.42	ug/Kg	☼	04/01/17 08:28	04/04/17 14:40	1
Heptachlor	ND		2.1	0.46	ug/Kg	☼	04/01/17 08:28	04/04/17 14:40	1
Lindane	ND		2.1	0.39	ug/Kg	☼	04/01/17 08:28	04/04/17 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	102		45 - 120	04/01/17 08:28	04/04/17 14:40	1
Tetrachloro-m-xylene	105		30 - 124	04/01/17 08:28	04/04/17 14:40	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.053	mg/Kg	☼	03/31/17 10:29	03/31/17 21:44	1
PCB-1221	ND		0.27	0.053	mg/Kg	☼	03/31/17 10:29	03/31/17 21:44	1
PCB-1232	ND		0.27	0.053	mg/Kg	☼	03/31/17 10:29	03/31/17 21:44	1
PCB-1242	ND		0.27	0.053	mg/Kg	☼	03/31/17 10:29	03/31/17 21:44	1
PCB-1248	ND		0.27	0.053	mg/Kg	☼	03/31/17 10:29	03/31/17 21:44	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Client Sample ID: WATER LINE TRENCH

Date Collected: 03/30/17 15:00

Date Received: 03/30/17 16:40

Lab Sample ID: 480-115334-1

Matrix: Solid

Percent Solids: 77.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	ND		0.27	0.13	mg/Kg	☼	03/31/17 10:29	03/31/17 21:44	1
PCB-1260	ND		0.27	0.13	mg/Kg	☼	03/31/17 10:29	03/31/17 21:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	100		60 - 154				03/31/17 10:29	03/31/17 21:44	1
DCB Decachlorobiphenyl	96		65 - 174				03/31/17 10:29	03/31/17 21:44	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	ND		21	7.6	ug/Kg	☼	04/01/17 08:37	04/04/17 16:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	72		28 - 129				04/01/17 08:37	04/04/17 16:57	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	10.1		2.8	0.56	mg/Kg	☼	03/31/17 15:51	04/01/17 18:42	1
Barium	130		0.70	0.15	mg/Kg	☼	03/31/17 15:51	04/01/17 18:42	1
Beryllium	0.82		0.28	0.039	mg/Kg	☼	03/31/17 15:51	04/01/17 18:42	1
Cadmium	0.46		0.28	0.042	mg/Kg	☼	03/31/17 15:51	04/01/17 18:42	1
Copper	74.2		1.4	0.29	mg/Kg	☼	03/31/17 15:51	04/01/17 18:42	1
Lead	180		1.4	0.33	mg/Kg	☼	03/31/17 15:51	04/01/17 18:42	1
Manganese	364	B	0.28	0.044	mg/Kg	☼	03/31/17 15:51	04/01/17 18:42	1
Nickel	87.5		7.0	0.32	mg/Kg	☼	03/31/17 15:51	04/01/17 18:42	1
Selenium	ND		5.6	0.56	mg/Kg	☼	03/31/17 15:51	04/01/17 18:42	1
Silver	0.72	J	0.83	0.28	mg/Kg	☼	03/31/17 15:51	04/01/17 18:42	1
Zinc	232		2.8	0.89	mg/Kg	☼	03/31/17 15:51	04/01/17 18:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.30		0.027	0.011	mg/Kg	☼	04/03/17 06:50	04/03/17 10:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	ND		2.6	0.51	mg/Kg	☼	04/04/17 13:30	04/05/17 16:15	1
Cyanide, Total	0.97	J B F1	1.2	0.56	mg/Kg	☼	04/04/17 11:55	04/05/17 14:40	1
Chromium, trivalent	21.7		1.5	0.63	mg/Kg			04/05/17 15:44	1

Client Sample ID: ELECTRIC LINE TRENCH

Date Collected: 03/30/17 15:10

Date Received: 03/30/17 16:40

Lab Sample ID: 480-115334-2

Matrix: Solid

Percent Solids: 76.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		6.3	0.46	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1
1,1-Dichloroethane	ND		6.3	0.77	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1
1,1-Dichloroethene	ND		6.3	0.77	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1
1,2,4-Trimethylbenzene	ND		6.3	1.2	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1
1,2-Dichlorobenzene	ND		6.3	0.49	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1
1,2-Dichloroethane	ND		6.3	0.31	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1
1,3,5-Trimethylbenzene	ND		6.3	0.40	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Client Sample ID: ELECTRIC LINE TRENCH

Lab Sample ID: 480-115334-2

Date Collected: 03/30/17 15:10

Matrix: Solid

Date Received: 03/30/17 16:40

Percent Solids: 76.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		6.3	0.32	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1
1,4-Dichlorobenzene	ND		6.3	0.88	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1
1,4-Dioxane	ND		130	27	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1
Acetone	150		31	5.3	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1
Benzene	ND		6.3	0.31	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1
Butylbenzene	ND		6.3	0.55	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1
Carbon tetrachloride	ND		6.3	0.61	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1
Chlorobenzene	ND		6.3	0.83	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1
Chloroform	0.45	J	6.3	0.39	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1
cis-1,2-Dichloroethene	ND		6.3	0.80	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1
Ethylbenzene	ND		6.3	0.43	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1
Methyl Ethyl Ketone	33		31	2.3	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1
Methyl tert-butyl ether	ND		6.3	0.62	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1
Methylene Chloride	ND		6.3	2.9	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1
Propylbenzene, n-	ND		6.3	0.50	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1
sec-Butylbenzene	ND		6.3	0.55	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1
tert-Butylbenzene	ND		6.3	0.65	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1
Tetrachloroethene	ND		6.3	0.84	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1
Toluene	ND		6.3	0.47	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1
trans-1,2-Dichloroethene	ND		6.3	0.65	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1
Trichloroethene	ND		6.3	1.4	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1
Vinyl chloride	ND		6.3	0.77	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1
Xylenes, Total	ND		13	1.1	ug/Kg	☼	03/31/17 09:34	03/31/17 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		64 - 126	03/31/17 09:34	03/31/17 13:27	1
4-Bromofluorobenzene (Surr)	90		72 - 126	03/31/17 09:34	03/31/17 13:27	1
Dibromofluoromethane (Surr)	90		60 - 140	03/31/17 09:34	03/31/17 13:27	1
Toluene-d8 (Surr)	97		71 - 125	03/31/17 09:34	03/31/17 13:27	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1100	160	ug/Kg	☼	03/31/17 14:31	04/03/17 15:34	5
Acenaphthylene	ND		1100	140	ug/Kg	☼	03/31/17 14:31	04/03/17 15:34	5
Anthracene	ND		1100	270	ug/Kg	☼	03/31/17 14:31	04/03/17 15:34	5
Benzo(a)anthracene	ND		1100	110	ug/Kg	☼	03/31/17 14:31	04/03/17 15:34	5
Benzo(a)pyrene	ND		1100	160	ug/Kg	☼	03/31/17 14:31	04/03/17 15:34	5
Benzo(b)fluoranthene	ND		1100	170	ug/Kg	☼	03/31/17 14:31	04/03/17 15:34	5
Benzo(g,h,i)perylene	180	J	1100	110	ug/Kg	☼	03/31/17 14:31	04/03/17 15:34	5
Benzo(k)fluoranthene	ND		1100	140	ug/Kg	☼	03/31/17 14:31	04/03/17 15:34	5
Chrysene	ND		1100	240	ug/Kg	☼	03/31/17 14:31	04/03/17 15:34	5
Dibenz(a,h)anthracene	ND		1100	190	ug/Kg	☼	03/31/17 14:31	04/03/17 15:34	5
Dibenzofuran	ND		1100	130	ug/Kg	☼	03/31/17 14:31	04/03/17 15:34	5
Fluoranthene	140	J	1100	110	ug/Kg	☼	03/31/17 14:31	04/03/17 15:34	5
Fluorene	ND		1100	130	ug/Kg	☼	03/31/17 14:31	04/03/17 15:34	5
Hexachlorobenzene	ND		1100	150	ug/Kg	☼	03/31/17 14:31	04/03/17 15:34	5
Indeno(1,2,3-cd)pyrene	ND		1100	130	ug/Kg	☼	03/31/17 14:31	04/03/17 15:34	5
m-Cresol	ND		2100	170	ug/Kg	☼	03/31/17 14:31	04/03/17 15:34	5
Naphthalene	ND		1100	140	ug/Kg	☼	03/31/17 14:31	04/03/17 15:34	5
o-Cresol	ND		1100	130	ug/Kg	☼	03/31/17 14:31	04/03/17 15:34	5

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Client Sample ID: ELECTRIC LINE TRENCH

Lab Sample ID: 480-115334-2

Date Collected: 03/30/17 15:10

Matrix: Solid

Date Received: 03/30/17 16:40

Percent Solids: 76.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Cresol	ND		2100	130	ug/Kg	☼	03/31/17 14:31	04/03/17 15:34	5
Pentachlorophenol	ND		2100	1100	ug/Kg	☼	03/31/17 14:31	04/03/17 15:34	5
Phenanthrene	ND		1100	160	ug/Kg	☼	03/31/17 14:31	04/03/17 15:34	5
Phenol	ND		1100	170	ug/Kg	☼	03/31/17 14:31	04/03/17 15:34	5
Pyrene	270	J	1100	130	ug/Kg	☼	03/31/17 14:31	04/03/17 15:34	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	112		54 - 120	03/31/17 14:31	04/03/17 15:34	5
2-Fluorobiphenyl	94		60 - 120	03/31/17 14:31	04/03/17 15:34	5
2-Fluorophenol	81		52 - 120	03/31/17 14:31	04/03/17 15:34	5
Nitrobenzene-d5	87		53 - 120	03/31/17 14:31	04/03/17 15:34	5
Phenol-d5	84		54 - 120	03/31/17 14:31	04/03/17 15:34	5
p-Terphenyl-d14	89		65 - 121	03/31/17 14:31	04/03/17 15:34	5

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.2	0.42	ug/Kg	☼	04/01/17 08:28	04/04/17 15:00	1
4,4'-DDE	ND		2.2	0.45	ug/Kg	☼	04/01/17 08:28	04/04/17 15:00	1
4,4'-DDT	ND		2.2	0.50	ug/Kg	☼	04/01/17 08:28	04/04/17 15:00	1
Aldrin	ND		2.2	0.53	ug/Kg	☼	04/01/17 08:28	04/04/17 15:00	1
alpha-BHC	ND		2.2	0.39	ug/Kg	☼	04/01/17 08:28	04/04/17 15:00	1
alpha-Chlordane	ND		2.2	1.1	ug/Kg	☼	04/01/17 08:28	04/04/17 15:00	1
beta-BHC	ND		2.2	0.39	ug/Kg	☼	04/01/17 08:28	04/04/17 15:00	1
delta-BHC	ND		2.2	0.40	ug/Kg	☼	04/01/17 08:28	04/04/17 15:00	1
Dieldrin	ND		2.2	0.52	ug/Kg	☼	04/01/17 08:28	04/04/17 15:00	1
Endosulfan I	ND		2.2	0.41	ug/Kg	☼	04/01/17 08:28	04/04/17 15:00	1
Endosulfan II	ND		2.2	0.39	ug/Kg	☼	04/01/17 08:28	04/04/17 15:00	1
Endosulfan sulfate	ND		2.2	0.40	ug/Kg	☼	04/01/17 08:28	04/04/17 15:00	1
Endrin	ND		2.2	0.43	ug/Kg	☼	04/01/17 08:28	04/04/17 15:00	1
Heptachlor	ND		2.2	0.47	ug/Kg	☼	04/01/17 08:28	04/04/17 15:00	1
Lindane	ND		2.2	0.40	ug/Kg	☼	04/01/17 08:28	04/04/17 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	119		45 - 120	04/01/17 08:28	04/04/17 15:00	1
Tetrachloro-m-xylene	70		30 - 124	04/01/17 08:28	04/04/17 15:00	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.28	0.055	mg/Kg	☼	03/31/17 10:29	03/31/17 22:00	1
PCB-1221	ND		0.28	0.055	mg/Kg	☼	03/31/17 10:29	03/31/17 22:00	1
PCB-1232	ND		0.28	0.055	mg/Kg	☼	03/31/17 10:29	03/31/17 22:00	1
PCB-1242	ND		0.28	0.055	mg/Kg	☼	03/31/17 10:29	03/31/17 22:00	1
PCB-1248	ND		0.28	0.055	mg/Kg	☼	03/31/17 10:29	03/31/17 22:00	1
PCB-1254	ND		0.28	0.13	mg/Kg	☼	03/31/17 10:29	03/31/17 22:00	1
PCB-1260	ND		0.28	0.13	mg/Kg	☼	03/31/17 10:29	03/31/17 22:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	114		60 - 154	03/31/17 10:29	03/31/17 22:00	1
DCB Decachlorobiphenyl	106		65 - 174	03/31/17 10:29	03/31/17 22:00	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Client Sample ID: ELECTRIC LINE TRENCH

Date Collected: 03/30/17 15:10

Date Received: 03/30/17 16:40

Lab Sample ID: 480-115334-2

Matrix: Solid

Percent Solids: 76.9

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	ND		21	7.6	ug/Kg	☼	04/01/17 08:37	04/04/17 17:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	81		28 - 129				04/01/17 08:37	04/04/17 17:27	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12.4		2.4	0.49	mg/Kg	☼	03/31/17 15:51	04/01/17 18:45	1
Barium	97.2		0.61	0.13	mg/Kg	☼	03/31/17 15:51	04/01/17 18:45	1
Beryllium	1.1		0.24	0.034	mg/Kg	☼	03/31/17 15:51	04/01/17 18:45	1
Cadmium	0.35		0.24	0.037	mg/Kg	☼	03/31/17 15:51	04/01/17 18:45	1
Copper	34.7		1.2	0.26	mg/Kg	☼	03/31/17 15:51	04/01/17 18:45	1
Lead	50.7		1.2	0.29	mg/Kg	☼	03/31/17 15:51	04/01/17 18:45	1
Manganese	153	B	0.24	0.039	mg/Kg	☼	03/31/17 15:51	04/01/17 18:45	1
Nickel	14.6		6.1	0.28	mg/Kg	☼	03/31/17 15:51	04/01/17 18:45	1
Selenium	2.2	J	4.9	0.49	mg/Kg	☼	03/31/17 15:51	04/01/17 18:45	1
Silver	ND		0.73	0.24	mg/Kg	☼	03/31/17 15:51	04/01/17 18:45	1
Zinc	57.6		2.4	0.78	mg/Kg	☼	03/31/17 15:51	04/01/17 18:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14		0.026	0.011	mg/Kg	☼	04/03/17 06:50	04/03/17 10:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	ND		2.7	0.53	mg/Kg	☼	04/04/17 13:30	04/05/17 16:15	1
Cyanide, Total	1.5	B	1.2	0.60	mg/Kg	☼	04/04/17 11:55	04/05/17 14:44	1
Chromium, trivalent	13.3		1.5	0.63	mg/Kg			04/05/17 15:44	1

Client Sample ID: STORMWATER BASIN

Date Collected: 03/30/17 15:20

Date Received: 03/30/17 16:40

Lab Sample ID: 480-115334-3

Matrix: Solid

Percent Solids: 92.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.3	0.38	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1
1,1-Dichloroethane	ND		5.3	0.64	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1
1,1-Dichloroethene	ND		5.3	0.64	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1
1,2,4-Trimethylbenzene	ND		5.3	1.0	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1
1,2-Dichlorobenzene	ND		5.3	0.41	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1
1,2-Dichloroethane	ND		5.3	0.26	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1
1,3,5-Trimethylbenzene	ND		5.3	0.34	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1
1,3-Dichlorobenzene	ND		5.3	0.27	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1
1,4-Dichlorobenzene	ND		5.3	0.74	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1
1,4-Dioxane	ND		110	23	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1
Acetone	ND		26	4.4	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1
Benzene	ND		5.3	0.26	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1
Butylbenzene	ND		5.3	0.46	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1
Carbon tetrachloride	ND		5.3	0.51	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1
Chlorobenzene	ND		5.3	0.69	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1
Chloroform	ND		5.3	0.33	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Client Sample ID: STORMWATER BASIN

Lab Sample ID: 480-115334-3

Date Collected: 03/30/17 15:20

Matrix: Solid

Date Received: 03/30/17 16:40

Percent Solids: 92.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		5.3	0.67	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1
Ethylbenzene	ND		5.3	0.36	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1
Methyl Ethyl Ketone	ND		26	1.9	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1
Methyl tert-butyl ether	ND		5.3	0.52	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1
Methylene Chloride	ND		5.3	2.4	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1
Propylbenzene, n-	ND		5.3	0.42	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1
sec-Butylbenzene	ND		5.3	0.46	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1
tert-Butylbenzene	ND		5.3	0.55	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1
Tetrachloroethene	ND		5.3	0.71	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1
Toluene	ND		5.3	0.40	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1
trans-1,2-Dichloroethene	ND		5.3	0.54	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1
Trichloroethene	ND		5.3	1.2	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1
Vinyl chloride	ND		5.3	0.64	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1
Xylenes, Total	ND		11	0.88	ug/Kg	☼	03/31/17 09:34	03/31/17 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		64 - 126	03/31/17 09:34	03/31/17 13:53	1
4-Bromofluorobenzene (Surr)	98		72 - 126	03/31/17 09:34	03/31/17 13:53	1
Dibromofluoromethane (Surr)	93		60 - 140	03/31/17 09:34	03/31/17 13:53	1
Toluene-d8 (Surr)	92		71 - 125	03/31/17 09:34	03/31/17 13:53	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		180	26	ug/Kg	☼	03/31/17 14:31	04/03/17 16:00	1
Acenaphthylene	ND		180	23	ug/Kg	☼	03/31/17 14:31	04/03/17 16:00	1
Anthracene	ND		180	44	ug/Kg	☼	03/31/17 14:31	04/03/17 16:00	1
Benzo(a)anthracene	20	J	180	18	ug/Kg	☼	03/31/17 14:31	04/03/17 16:00	1
Benzo(a)pyrene	ND		180	26	ug/Kg	☼	03/31/17 14:31	04/03/17 16:00	1
Benzo(b)fluoranthene	34	J K	180	29	ug/Kg	☼	03/31/17 14:31	04/03/17 16:00	1
Benzo(g,h,i)perylene	ND		180	19	ug/Kg	☼	03/31/17 14:31	04/03/17 16:00	1
Benzo(k)fluoranthene	ND		180	23	ug/Kg	☼	03/31/17 14:31	04/03/17 16:00	1
Chrysene	ND		180	40	ug/Kg	☼	03/31/17 14:31	04/03/17 16:00	1
Dibenz(a,h)anthracene	ND		180	32	ug/Kg	☼	03/31/17 14:31	04/03/17 16:00	1
Dibenzofuran	ND		180	21	ug/Kg	☼	03/31/17 14:31	04/03/17 16:00	1
Fluoranthene	41	J	180	19	ug/Kg	☼	03/31/17 14:31	04/03/17 16:00	1
Fluorene	ND		180	21	ug/Kg	☼	03/31/17 14:31	04/03/17 16:00	1
Hexachlorobenzene	ND		180	24	ug/Kg	☼	03/31/17 14:31	04/03/17 16:00	1
Indeno(1,2,3-cd)pyrene	ND		180	22	ug/Kg	☼	03/31/17 14:31	04/03/17 16:00	1
m-Cresol	ND		350	28	ug/Kg	☼	03/31/17 14:31	04/03/17 16:00	1
Naphthalene	ND		180	23	ug/Kg	☼	03/31/17 14:31	04/03/17 16:00	1
o-Cresol	ND		180	21	ug/Kg	☼	03/31/17 14:31	04/03/17 16:00	1
p-Cresol	ND		350	21	ug/Kg	☼	03/31/17 14:31	04/03/17 16:00	1
Pentachlorophenol	ND		350	180	ug/Kg	☼	03/31/17 14:31	04/03/17 16:00	1
Phenanthrene	28	J	180	26	ug/Kg	☼	03/31/17 14:31	04/03/17 16:00	1
Phenol	ND		180	28	ug/Kg	☼	03/31/17 14:31	04/03/17 16:00	1
Pyrene	33	J	180	21	ug/Kg	☼	03/31/17 14:31	04/03/17 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	86		54 - 120	03/31/17 14:31	04/03/17 16:00	1
2-Fluorobiphenyl	77		60 - 120	03/31/17 14:31	04/03/17 16:00	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Client Sample ID: STORMWATER BASIN

Date Collected: 03/30/17 15:20

Date Received: 03/30/17 16:40

Lab Sample ID: 480-115334-3

Matrix: Solid

Percent Solids: 92.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	70		52 - 120	03/31/17 14:31	04/03/17 16:00	1
Nitrobenzene-d5	73		53 - 120	03/31/17 14:31	04/03/17 16:00	1
Phenol-d5	73		54 - 120	03/31/17 14:31	04/03/17 16:00	1
p-Terphenyl-d14	78		65 - 121	03/31/17 14:31	04/03/17 16:00	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		8.9	1.7	ug/Kg	☼	04/01/17 08:28	04/04/17 15:20	5
4,4'-DDE	ND		8.9	1.9	ug/Kg	☼	04/01/17 08:28	04/04/17 15:20	5
4,4'-DDT	ND		8.9	2.1	ug/Kg	☼	04/01/17 08:28	04/04/17 15:20	5
Aldrin	ND		8.9	2.2	ug/Kg	☼	04/01/17 08:28	04/04/17 15:20	5
alpha-BHC	ND		8.9	1.6	ug/Kg	☼	04/01/17 08:28	04/04/17 15:20	5
alpha-Chlordane	ND		8.9	4.4	ug/Kg	☼	04/01/17 08:28	04/04/17 15:20	5
beta-BHC	ND		8.9	1.6	ug/Kg	☼	04/01/17 08:28	04/04/17 15:20	5
delta-BHC	ND		8.9	1.7	ug/Kg	☼	04/01/17 08:28	04/04/17 15:20	5
Dieldrin	ND		8.9	2.1	ug/Kg	☼	04/01/17 08:28	04/04/17 15:20	5
Endosulfan I	ND		8.9	1.7	ug/Kg	☼	04/01/17 08:28	04/04/17 15:20	5
Endosulfan II	ND		8.9	1.6	ug/Kg	☼	04/01/17 08:28	04/04/17 15:20	5
Endosulfan sulfate	ND		8.9	1.7	ug/Kg	☼	04/01/17 08:28	04/04/17 15:20	5
Endrin	ND		8.9	1.8	ug/Kg	☼	04/01/17 08:28	04/04/17 15:20	5
Heptachlor	ND		8.9	1.9	ug/Kg	☼	04/01/17 08:28	04/04/17 15:20	5
Lindane	ND		8.9	1.6	ug/Kg	☼	04/01/17 08:28	04/04/17 15:20	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	79		45 - 120	04/01/17 08:28	04/04/17 15:20	5
Tetrachloro-m-xylene	82		30 - 124	04/01/17 08:28	04/04/17 15:20	5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.19	0.037	mg/Kg	☼	03/31/17 10:29	03/31/17 22:16	1
PCB-1221	ND		0.19	0.037	mg/Kg	☼	03/31/17 10:29	03/31/17 22:16	1
PCB-1232	ND		0.19	0.037	mg/Kg	☼	03/31/17 10:29	03/31/17 22:16	1
PCB-1242	ND		0.19	0.037	mg/Kg	☼	03/31/17 10:29	03/31/17 22:16	1
PCB-1248	ND		0.19	0.037	mg/Kg	☼	03/31/17 10:29	03/31/17 22:16	1
PCB-1254	2.0		0.19	0.089	mg/Kg	☼	03/31/17 10:29	03/31/17 22:16	1
PCB-1260	0.55		0.19	0.089	mg/Kg	☼	03/31/17 10:29	03/31/17 22:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	127		60 - 154	03/31/17 10:29	03/31/17 22:16	1
DCB Decachlorobiphenyl	127		65 - 174	03/31/17 10:29	03/31/17 22:16	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	ND		18	6.3	ug/Kg	☼	04/01/17 08:37	04/04/17 17:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	70		28 - 129	04/01/17 08:37	04/04/17 17:57	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.8		2.2	0.44	mg/Kg	☼	03/31/17 15:51	04/01/17 18:48	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Client Sample ID: STORMWATER BASIN

Date Collected: 03/30/17 15:20

Date Received: 03/30/17 16:40

Lab Sample ID: 480-115334-3

Matrix: Solid

Percent Solids: 92.4

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	9.3		0.54	0.12	mg/Kg	☼	03/31/17 15:51	04/01/17 18:48	1
Beryllium	0.16	J	0.22	0.030	mg/Kg	☼	03/31/17 15:51	04/01/17 18:48	1
Cadmium	0.20	J	0.22	0.033	mg/Kg	☼	03/31/17 15:51	04/01/17 18:48	1
Copper	2.7		2.2	0.46	mg/Kg	☼	03/31/17 15:51	04/03/17 14:09	2
Lead	23.7		1.1	0.26	mg/Kg	☼	03/31/17 15:51	04/01/17 18:48	1
Manganese	375	B	0.22	0.035	mg/Kg	☼	03/31/17 15:51	04/01/17 18:48	1
Nickel	5.7		5.4	0.25	mg/Kg	☼	03/31/17 15:51	04/01/17 18:48	1
Selenium	ND		8.7	0.87	mg/Kg	☼	03/31/17 15:51	04/03/17 14:09	2
Silver	ND		0.65	0.22	mg/Kg	☼	03/31/17 15:51	04/01/17 18:48	1
Zinc	26.0		2.2	0.70	mg/Kg	☼	03/31/17 15:51	04/01/17 18:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.022	0.0088	mg/Kg	☼	04/03/17 06:50	04/03/17 10:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	ND		2.3	0.45	mg/Kg	☼	04/04/17 13:30	04/05/17 16:15	1
Cyanide, Total	ND		0.97	0.47	mg/Kg	☼	04/04/17 11:55	04/05/17 14:46	1
Chromium, trivalent	5.0		1.5	0.63	mg/Kg			04/05/17 15:44	1

Client Sample ID: FIRE LANE

Date Collected: 03/30/17 15:30

Date Received: 03/30/17 16:40

Lab Sample ID: 480-115334-4

Matrix: Solid

Percent Solids: 86.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.7	0.42	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1
1,1-Dichloroethane	ND		5.7	0.70	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1
1,1-Dichloroethene	ND		5.7	0.70	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1
1,2,4-Trimethylbenzene	ND		5.7	1.1	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1
1,2-Dichlorobenzene	ND		5.7	0.45	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1
1,2-Dichloroethane	ND		5.7	0.29	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1
1,3,5-Trimethylbenzene	ND		5.7	0.37	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1
1,3-Dichlorobenzene	ND		5.7	0.29	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1
1,4-Dichlorobenzene	ND		5.7	0.80	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1
1,4-Dioxane	ND		110	25	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1
Acetone	34		29	4.8	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1
Benzene	ND		5.7	0.28	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1
Butylbenzene	ND		5.7	0.50	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1
Carbon tetrachloride	ND		5.7	0.55	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1
Chlorobenzene	ND		5.7	0.76	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1
Chloroform	ND		5.7	0.35	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1
cis-1,2-Dichloroethene	ND		5.7	0.73	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1
Ethylbenzene	ND		5.7	0.40	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1
Methyl Ethyl Ketone	ND		29	2.1	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1
Methyl tert-butyl ether	ND		5.7	0.56	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1
Methylene Chloride	ND		5.7	2.6	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1
Propylbenzene, n-	ND		5.7	0.46	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1
sec-Butylbenzene	ND		5.7	0.50	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Client Sample ID: FIRE LANE

Lab Sample ID: 480-115334-4

Date Collected: 03/30/17 15:30

Matrix: Solid

Date Received: 03/30/17 16:40

Percent Solids: 86.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		5.7	0.60	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1
Tetrachloroethene	ND		5.7	0.77	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1
Toluene	ND		5.7	0.43	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1
trans-1,2-Dichloroethene	ND		5.7	0.59	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1
Trichloroethene	ND		5.7	1.3	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1
Vinyl chloride	ND		5.7	0.70	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1
Xylenes, Total	ND		11	0.96	ug/Kg	☼	03/31/17 09:34	03/31/17 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		64 - 126	03/31/17 09:34	03/31/17 14:18	1
4-Bromofluorobenzene (Surr)	90		72 - 126	03/31/17 09:34	03/31/17 14:18	1
Dibromofluoromethane (Surr)	90		60 - 140	03/31/17 09:34	03/31/17 14:18	1
Toluene-d8 (Surr)	96		71 - 125	03/31/17 09:34	03/31/17 14:18	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		190	29	ug/Kg	☼	03/31/17 14:33	04/03/17 16:27	1
Acenaphthylene	ND		190	25	ug/Kg	☼	03/31/17 14:33	04/03/17 16:27	1
Anthracene	ND		190	48	ug/Kg	☼	03/31/17 14:33	04/03/17 16:27	1
Benzo(a)anthracene	120	J	190	19	ug/Kg	☼	03/31/17 14:33	04/03/17 16:27	1
Benzo(a)pyrene	110	J	190	29	ug/Kg	☼	03/31/17 14:33	04/03/17 16:27	1
Benzo(b)fluoranthene	180	J	190	31	ug/Kg	☼	03/31/17 14:33	04/03/17 16:27	1
Benzo(g,h,i)perylene	110	J	190	21	ug/Kg	☼	03/31/17 14:33	04/03/17 16:27	1
Benzo(k)fluoranthene	59	J	190	25	ug/Kg	☼	03/31/17 14:33	04/03/17 16:27	1
Chrysene	140	J	190	43	ug/Kg	☼	03/31/17 14:33	04/03/17 16:27	1
Dibenz(a,h)anthracene	ND		190	34	ug/Kg	☼	03/31/17 14:33	04/03/17 16:27	1
Dibenzofuran	ND		190	23	ug/Kg	☼	03/31/17 14:33	04/03/17 16:27	1
Fluoranthene	260		190	21	ug/Kg	☼	03/31/17 14:33	04/03/17 16:27	1
Fluorene	ND		190	23	ug/Kg	☼	03/31/17 14:33	04/03/17 16:27	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	03/31/17 14:33	04/03/17 16:27	1
Indeno(1,2,3-cd)pyrene	98	J	190	24	ug/Kg	☼	03/31/17 14:33	04/03/17 16:27	1
m-Cresol	ND		380	30	ug/Kg	☼	03/31/17 14:33	04/03/17 16:27	1
Naphthalene	48	J	190	25	ug/Kg	☼	03/31/17 14:33	04/03/17 16:27	1
o-Cresol	ND		190	23	ug/Kg	☼	03/31/17 14:33	04/03/17 16:27	1
p-Cresol	ND		380	23	ug/Kg	☼	03/31/17 14:33	04/03/17 16:27	1
Pentachlorophenol	ND		380	190	ug/Kg	☼	03/31/17 14:33	04/03/17 16:27	1
Phenanthrene	180	J	190	29	ug/Kg	☼	03/31/17 14:33	04/03/17 16:27	1
Phenol	ND		190	30	ug/Kg	☼	03/31/17 14:33	04/03/17 16:27	1
Pyrene	190		190	23	ug/Kg	☼	03/31/17 14:33	04/03/17 16:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	90		54 - 120	03/31/17 14:33	04/03/17 16:27	1
2-Fluorobiphenyl	82		60 - 120	03/31/17 14:33	04/03/17 16:27	1
2-Fluorophenol	72		52 - 120	03/31/17 14:33	04/03/17 16:27	1
Nitrobenzene-d5	79		53 - 120	03/31/17 14:33	04/03/17 16:27	1
Phenol-d5	78		54 - 120	03/31/17 14:33	04/03/17 16:27	1
p-Terphenyl-d14	84		65 - 121	03/31/17 14:33	04/03/17 16:27	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Client Sample ID: FIRE LANE

Lab Sample ID: 480-115334-4

Date Collected: 03/30/17 15:30

Matrix: Solid

Date Received: 03/30/17 16:40

Percent Solids: 86.7

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.8	0.74	ug/Kg	☼	04/01/17 08:28	04/04/17 15:39	2
4,4'-DDE	ND		3.8	0.80	ug/Kg	☼	04/01/17 08:28	04/04/17 15:39	2
4,4'-DDT	ND		3.8	0.90	ug/Kg	☼	04/01/17 08:28	04/04/17 15:39	2
Aldrin	ND		3.8	0.94	ug/Kg	☼	04/01/17 08:28	04/04/17 15:39	2
alpha-BHC	ND		3.8	0.69	ug/Kg	☼	04/01/17 08:28	04/04/17 15:39	2
alpha-Chlordane	ND		3.8	1.9	ug/Kg	☼	04/01/17 08:28	04/04/17 15:39	2
beta-BHC	ND		3.8	0.69	ug/Kg	☼	04/01/17 08:28	04/04/17 15:39	2
delta-BHC	ND		3.8	0.71	ug/Kg	☼	04/01/17 08:28	04/04/17 15:39	2
Dieldrin	ND		3.8	0.92	ug/Kg	☼	04/01/17 08:28	04/04/17 15:39	2
Endosulfan I	ND		3.8	0.73	ug/Kg	☼	04/01/17 08:28	04/04/17 15:39	2
Endosulfan II	ND		3.8	0.69	ug/Kg	☼	04/01/17 08:28	04/04/17 15:39	2
Endosulfan sulfate	ND		3.8	0.71	ug/Kg	☼	04/01/17 08:28	04/04/17 15:39	2
Endrin	ND		3.8	0.76	ug/Kg	☼	04/01/17 08:28	04/04/17 15:39	2
Heptachlor	ND		3.8	0.83	ug/Kg	☼	04/01/17 08:28	04/04/17 15:39	2
Lindane	ND		3.8	0.70	ug/Kg	☼	04/01/17 08:28	04/04/17 15:39	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	92		45 - 120				04/01/17 08:28	04/04/17 15:39	2
Tetrachloro-m-xylene	122		30 - 124				04/01/17 08:28	04/04/17 15:39	2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.22	0.042	mg/Kg	☼	03/31/17 10:29	03/31/17 22:32	1
PCB-1221	ND		0.22	0.042	mg/Kg	☼	03/31/17 10:29	03/31/17 22:32	1
PCB-1232	ND		0.22	0.042	mg/Kg	☼	03/31/17 10:29	03/31/17 22:32	1
PCB-1242	ND		0.22	0.042	mg/Kg	☼	03/31/17 10:29	03/31/17 22:32	1
PCB-1248	ND		0.22	0.042	mg/Kg	☼	03/31/17 10:29	03/31/17 22:32	1
PCB-1254	ND		0.22	0.10	mg/Kg	☼	03/31/17 10:29	03/31/17 22:32	1
PCB-1260	ND		0.22	0.10	mg/Kg	☼	03/31/17 10:29	03/31/17 22:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	116		60 - 154				03/31/17 10:29	03/31/17 22:32	1
DCB Decachlorobiphenyl	108		65 - 174				03/31/17 10:29	03/31/17 22:32	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	ND		19	6.8	ug/Kg	☼	04/01/17 08:37	04/04/17 18:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	82		28 - 129				04/01/17 08:37	04/04/17 18:27	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.6		2.4	0.49	mg/Kg	☼	03/31/17 15:51	04/01/17 19:02	1
Barium	126		0.61	0.13	mg/Kg	☼	03/31/17 15:51	04/01/17 19:02	1
Beryllium	0.78		0.24	0.034	mg/Kg	☼	03/31/17 15:51	04/01/17 19:02	1
Cadmium	0.31		0.24	0.036	mg/Kg	☼	03/31/17 15:51	04/01/17 19:02	1
Copper	15.5		1.2	0.26	mg/Kg	☼	03/31/17 15:51	04/01/17 19:02	1
Lead	46.4		1.2	0.29	mg/Kg	☼	03/31/17 15:51	04/01/17 19:02	1
Manganese	267	B ^	0.24	0.039	mg/Kg	☼	03/31/17 15:51	04/01/17 19:02	1
Nickel	13.0		6.1	0.28	mg/Kg	☼	03/31/17 15:51	04/01/17 19:02	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Client Sample ID: FIRE LANE

Lab Sample ID: 480-115334-4

Date Collected: 03/30/17 15:30

Matrix: Solid

Date Received: 03/30/17 16:40

Percent Solids: 86.7

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	1.2	J	4.9	0.49	mg/Kg	☼	03/31/17 15:51	04/01/17 19:02	1
Silver	ND		0.73	0.24	mg/Kg	☼	03/31/17 15:51	04/01/17 19:02	1
Zinc	74.4		2.4	0.78	mg/Kg	☼	03/31/17 15:51	04/01/17 19:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.076		0.023	0.0092	mg/Kg	☼	04/03/17 06:50	04/03/17 10:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	ND		2.3	0.46	mg/Kg	☼	04/04/17 13:30	04/05/17 16:15	1
Cyanide, Total	ND		1.1	0.53	mg/Kg	☼	04/04/17 11:55	04/05/17 14:47	1
Chromium, trivalent	14.1		1.5	0.63	mg/Kg			04/05/17 15:44	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (64-126)	BFB (72-126)	DBFM (60-140)	TOL (71-125)
480-115334-1	WATER LINE TRENCH	92	95	92	94
480-115334-1 MS	WATER LINE TRENCH	80	96	89	95
480-115334-1 MSD	WATER LINE TRENCH	79	95	90	97
480-115334-2	ELECTRIC LINE TRENCH	87	90	90	97
480-115334-3	STORMWATER BASIN	94	98	93	92
480-115334-4	FIRE LANE	89	90	90	96
LCS 480-349673/1-A	Lab Control Sample	90	104	94	93
MB 480-349673/2-A	Method Blank	92	100	91	91

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (54-120)	FBP (60-120)	2FP (52-120)	NBZ (53-120)	PHL (54-120)	TPH (65-121)
480-115334-1	WATER LINE TRENCH	102	85	76	77	79	89
480-115334-2	ELECTRIC LINE TRENCH	112	94	81	87	84	89
480-115334-3	STORMWATER BASIN	86	77	70	73	73	78
480-115334-4	FIRE LANE	90	82	72	79	78	84
LCS 480-349772/2-A	Lab Control Sample	105	88	77	80	82	91
MB 480-349772/1-A	Method Blank	84	86	74	78	78	86

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = p-Terphenyl-d14

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB1 (45-120)	TCX1 (30-124)
480-115334-1	WATER LINE TRENCH	102	105
480-115334-2	ELECTRIC LINE TRENCH	119	70
480-115334-3	STORMWATER BASIN	79	82
480-115334-4	FIRE LANE	92	122
LCS 480-349858/2-A	Lab Control Sample	91	79
MB 480-349858/1-A	Method Blank	87	65

Surrogate Legend

TestAmerica Buffalo

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1	DCB1
		(60-154)	(65-174)
480-115334-1	WATER LINE TRENCH	100	96
480-115334-2	ELECTRIC LINE TRENCH	114	106
480-115334-3	STORMWATER BASIN	127	127
480-115334-4	FIRE LANE	116	108
LCS 480-349695/2-A	Lab Control Sample	140	170
MB 480-349695/1-A	Method Blank	124	133

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8151A - Herbicides (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCPA1
		(28-129)
480-115334-1	WATER LINE TRENCH	72
480-115334-2	ELECTRIC LINE TRENCH	81
480-115334-3	STORMWATER BASIN	70
480-115334-4	FIRE LANE	82
LCS 480-349861/2-A	Lab Control Sample	65
MB 480-349861/1-A	Method Blank	78

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-349673/2-A

Matrix: Solid

Analysis Batch: 349642

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 349673

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		03/31/17 09:34	03/31/17 11:35	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		03/31/17 09:34	03/31/17 11:35	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		03/31/17 09:34	03/31/17 11:35	1
1,2,4-Trimethylbenzene	ND		5.0	0.96	ug/Kg		03/31/17 09:34	03/31/17 11:35	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		03/31/17 09:34	03/31/17 11:35	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		03/31/17 09:34	03/31/17 11:35	1
1,3,5-Trimethylbenzene	ND		5.0	0.32	ug/Kg		03/31/17 09:34	03/31/17 11:35	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		03/31/17 09:34	03/31/17 11:35	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		03/31/17 09:34	03/31/17 11:35	1
1,4-Dioxane	ND		100	22	ug/Kg		03/31/17 09:34	03/31/17 11:35	1
Acetone	ND		25	4.2	ug/Kg		03/31/17 09:34	03/31/17 11:35	1
Benzene	ND		5.0	0.25	ug/Kg		03/31/17 09:34	03/31/17 11:35	1
Butylbenzene	ND		5.0	0.44	ug/Kg		03/31/17 09:34	03/31/17 11:35	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		03/31/17 09:34	03/31/17 11:35	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		03/31/17 09:34	03/31/17 11:35	1
Chloroform	ND		5.0	0.31	ug/Kg		03/31/17 09:34	03/31/17 11:35	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		03/31/17 09:34	03/31/17 11:35	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		03/31/17 09:34	03/31/17 11:35	1
Methyl Ethyl Ketone	ND		25	1.8	ug/Kg		03/31/17 09:34	03/31/17 11:35	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		03/31/17 09:34	03/31/17 11:35	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		03/31/17 09:34	03/31/17 11:35	1
Propylbenzene, n-	ND		5.0	0.40	ug/Kg		03/31/17 09:34	03/31/17 11:35	1
sec-Butylbenzene	ND		5.0	0.44	ug/Kg		03/31/17 09:34	03/31/17 11:35	1
tert-Butylbenzene	ND		5.0	0.52	ug/Kg		03/31/17 09:34	03/31/17 11:35	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		03/31/17 09:34	03/31/17 11:35	1
Toluene	ND		5.0	0.38	ug/Kg		03/31/17 09:34	03/31/17 11:35	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		03/31/17 09:34	03/31/17 11:35	1
Trichloroethene	ND		5.0	1.1	ug/Kg		03/31/17 09:34	03/31/17 11:35	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		03/31/17 09:34	03/31/17 11:35	1
Xylenes, Total	ND		10	0.84	ug/Kg		03/31/17 09:34	03/31/17 11:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		64 - 126	03/31/17 09:34	03/31/17 11:35	1
4-Bromofluorobenzene (Surr)	100		72 - 126	03/31/17 09:34	03/31/17 11:35	1
Dibromofluoromethane (Surr)	91		60 - 140	03/31/17 09:34	03/31/17 11:35	1
Toluene-d8 (Surr)	91		71 - 125	03/31/17 09:34	03/31/17 11:35	1

Lab Sample ID: LCS 480-349673/1-A

Matrix: Solid

Analysis Batch: 349642

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 349673

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1,1-Trichloroethane	50.0	47.6		ug/Kg		95	77 - 121
1,1-Dichloroethane	50.0	48.0		ug/Kg		96	73 - 126
1,1-Dichloroethene	50.0	48.5		ug/Kg		97	59 - 125
1,2,4-Trimethylbenzene	50.0	46.4		ug/Kg		93	74 - 120
1,2-Dichlorobenzene	50.0	45.4		ug/Kg		91	75 - 120
1,2-Dichloroethane	50.0	47.1		ug/Kg		94	77 - 122

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-349673/1-A
Matrix: Solid
Analysis Batch: 349642

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349673

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,3,5-Trimethylbenzene	50.0	45.3		ug/Kg		91	74 - 120
1,3-Dichlorobenzene	50.0	46.3		ug/Kg		93	74 - 120
1,4-Dichlorobenzene	50.0	46.6		ug/Kg		93	73 - 120
1,4-Dioxane	1000	941		ug/Kg		94	64 - 124
Acetone	250	256		ug/Kg		102	61 - 137
Benzene	50.0	48.7		ug/Kg		97	79 - 127
Butylbenzene	50.0	46.5		ug/Kg		93	70 - 120
Carbon tetrachloride	50.0	47.4		ug/Kg		95	75 - 135
Chlorobenzene	50.0	45.9		ug/Kg		92	76 - 124
Chloroform	50.0	48.9		ug/Kg		98	80 - 120
cis-1,2-Dichloroethene	50.0	47.8		ug/Kg		96	81 - 120
Ethylbenzene	50.0	47.1		ug/Kg		94	80 - 120
Methyl Ethyl Ketone	250	252		ug/Kg		101	70 - 134
Methyl tert-butyl ether	50.0	47.1		ug/Kg		94	63 - 125
Methylene Chloride	50.0	47.4		ug/Kg		95	61 - 127
Propylbenzene, n-	50.0	46.2		ug/Kg		92	70 - 130
sec-Butylbenzene	50.0	45.5		ug/Kg		91	74 - 120
tert-Butylbenzene	50.0	43.1		ug/Kg		86	73 - 120
Tetrachloroethene	50.0	45.6		ug/Kg		91	74 - 122
Toluene	50.0	45.9		ug/Kg		92	74 - 128
trans-1,2-Dichloroethene	50.0	48.6		ug/Kg		97	78 - 126
Trichloroethene	50.0	47.5		ug/Kg		95	77 - 129
Vinyl chloride	50.0	48.3		ug/Kg		97	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		64 - 126
4-Bromofluorobenzene (Surr)	104		72 - 126
Dibromofluoromethane (Surr)	94		60 - 140
Toluene-d8 (Surr)	93		71 - 125

Lab Sample ID: 480-115334-1 MS
Matrix: Solid
Analysis Batch: 349642

Client Sample ID: WATER LINE TRENCH
Prep Type: Total/NA
Prep Batch: 349673

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1,1,1-Trichloroethane	ND		63.8	54.1		ug/Kg	☼	85	77 - 121
1,1-Dichloroethane	ND		63.8	55.8		ug/Kg	☼	87	73 - 126
1,1-Dichloroethene	ND		63.8	53.2		ug/Kg	☼	83	59 - 125
1,2,4-Trimethylbenzene	ND		63.8	52.8		ug/Kg	☼	83	74 - 120
1,2-Dichlorobenzene	ND	F1	63.8	43.2	F1	ug/Kg	☼	68	75 - 120
1,2-Dichloroethane	ND		63.8	50.9		ug/Kg	☼	80	77 - 122
1,3,5-Trimethylbenzene	ND		63.8	54.3		ug/Kg	☼	85	74 - 120
1,3-Dichlorobenzene	ND	F1	63.8	44.2	F1	ug/Kg	☼	69	74 - 120
1,4-Dichlorobenzene	ND	F1	63.8	42.3	F1	ug/Kg	☼	66	73 - 120
1,4-Dioxane	ND		1280	815		ug/Kg	☼	64	64 - 124
Acetone	ND		319	215		ug/Kg	☼	67	61 - 137
Benzene	ND		63.8	55.9		ug/Kg	☼	88	79 - 127
Butylbenzene	ND	F1	63.8	42.7	F1	ug/Kg	☼	67	70 - 120

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-115334-1 MS

Matrix: Solid

Analysis Batch: 349642

Client Sample ID: WATER LINE TRENCH

Prep Type: Total/NA

Prep Batch: 349673

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits	
	Result	Qualifier		Result	Qualifier					
Carbon tetrachloride	ND		63.8	50.9		ug/Kg	☼	80	75 - 135	
Chlorobenzene	ND	F1	63.8	49.0		ug/Kg	☼	77	76 - 124	
Chloroform	0.40	J	63.8	57.2		ug/Kg	☼	90	80 - 120	
cis-1,2-Dichloroethene	ND	F1	63.8	52.4		ug/Kg	☼	82	80 - 120	
Ethylbenzene	ND	F1	63.8	53.2		ug/Kg	☼	83	80 - 120	
Methyl Ethyl Ketone	ND	F1	319	217	F1	ug/Kg	☼	68	70 - 134	
Methyl tert-butyl ether	ND		63.8	51.7		ug/Kg	☼	81	63 - 125	
Methylene Chloride	ND		63.8	55.7		ug/Kg	☼	87	61 - 127	
Propylbenzene, n-	ND		63.8	53.8		ug/Kg	☼	84	70 - 130	
sec-Butylbenzene	ND		63.8	51.3		ug/Kg	☼	80	74 - 120	
tert-Butylbenzene	ND		63.8	53.0		ug/Kg	☼	83	73 - 120	
Tetrachloroethene	ND	F1	63.8	49.7		ug/Kg	☼	78	74 - 122	
Toluene	ND		63.8	54.0		ug/Kg	☼	85	74 - 128	
trans-1,2-Dichloroethene	ND	F1	63.8	51.7		ug/Kg	☼	81	78 - 126	
Trichloroethene	ND	F1	63.8	50.7		ug/Kg	☼	79	77 - 129	
Vinyl chloride	ND		63.8	51.9		ug/Kg	☼	81	61 - 133	
MS MS										
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	80		64 - 126							
4-Bromofluorobenzene (Surr)	96		72 - 126							
Dibromofluoromethane (Surr)	89		60 - 140							
Toluene-d8 (Surr)	95		71 - 125							

Lab Sample ID: 480-115334-1 MSD

Matrix: Solid

Analysis Batch: 349642

Client Sample ID: WATER LINE TRENCH

Prep Type: Total/NA

Prep Batch: 349673

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
1,1,1-Trichloroethane	ND		62.7	50.8		ug/Kg	☼	81	77 - 121	6	30
1,1-Dichloroethane	ND		62.7	52.3		ug/Kg	☼	83	73 - 126	6	30
1,1-Dichloroethene	ND		62.7	48.0		ug/Kg	☼	77	59 - 125	10	30
1,2,4-Trimethylbenzene	ND		62.7	51.1		ug/Kg	☼	82	74 - 120	3	30
1,2-Dichlorobenzene	ND	F1	62.7	40.3	F1	ug/Kg	☼	64	75 - 120	7	30
1,2-Dichloroethane	ND		62.7	48.4		ug/Kg	☼	77	77 - 122	5	30
1,3,5-Trimethylbenzene	ND		62.7	52.3		ug/Kg	☼	83	74 - 120	4	30
1,3-Dichlorobenzene	ND	F1	62.7	40.1	F1	ug/Kg	☼	64	74 - 120	10	30
1,4-Dichlorobenzene	ND	F1	62.7	38.0	F1	ug/Kg	☼	61	73 - 120	11	30
1,4-Dioxane	ND		1250	833		ug/Kg	☼	66	64 - 124	2	30
Acetone	ND		313	204		ug/Kg	☼	65	61 - 137	5	30
Benzene	ND		62.7	51.9		ug/Kg	☼	83	79 - 127	7	30
Butylbenzene	ND	F1	62.7	37.5	F1	ug/Kg	☼	60	70 - 120	13	30
Carbon tetrachloride	ND		62.7	47.1		ug/Kg	☼	75	75 - 135	8	30
Chlorobenzene	ND	F1	62.7	44.5	F1	ug/Kg	☼	71	76 - 124	10	30
Chloroform	0.40	J	62.7	54.2		ug/Kg	☼	86	80 - 120	5	30
cis-1,2-Dichloroethene	ND	F1	62.7	49.0	F1	ug/Kg	☼	78	80 - 120	7	30
Ethylbenzene	ND	F1	62.7	48.5	F1	ug/Kg	☼	77	80 - 120	9	30
Methyl Ethyl Ketone	ND	F1	313	199	F1	ug/Kg	☼	64	70 - 134	8	30
Methyl tert-butyl ether	ND		62.7	49.9		ug/Kg	☼	80	63 - 125	4	30

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-115334-1 MSD

Matrix: Solid

Analysis Batch: 349642

Client Sample ID: WATER LINE TRENCH

Prep Type: Total/NA

Prep Batch: 349673

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Methylene Chloride	ND		62.7	53.3		ug/Kg	☼	85	61 - 127	4	30
Propylbenzene, n-	ND		62.7	50.4		ug/Kg	☼	80	70 - 130	7	30
sec-Butylbenzene	ND		62.7	48.2		ug/Kg	☼	77	74 - 120	6	30
tert-Butylbenzene	ND		62.7	52.6		ug/Kg	☼	84	73 - 120	1	30
Tetrachloroethene	ND	F1	62.7	45.8	F1	ug/Kg	☼	73	74 - 122	8	30
Toluene	ND		62.7	49.8		ug/Kg	☼	79	74 - 128	8	30
trans-1,2-Dichloroethene	ND	F1	62.7	46.3	F1	ug/Kg	☼	74	78 - 126	11	30
Trichloroethene	ND	F1	62.7	45.4	F1	ug/Kg	☼	72	77 - 129	11	30
Vinyl chloride	ND		62.7	48.7		ug/Kg	☼	78	61 - 133	6	30
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	79		64 - 126								
4-Bromofluorobenzene (Surr)	95		72 - 126								
Dibromofluoromethane (Surr)	90		60 - 140								
Toluene-d8 (Surr)	97		71 - 125								

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-349772/1-A

Matrix: Solid

Analysis Batch: 349915

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 349772

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	ND		160	24	ug/Kg		03/31/17 14:31	04/03/17 09:52	1
Acenaphthylene	ND		160	21	ug/Kg		03/31/17 14:31	04/03/17 09:52	1
Anthracene	ND		160	41	ug/Kg		03/31/17 14:31	04/03/17 09:52	1
Benzo(a)anthracene	ND		160	16	ug/Kg		03/31/17 14:31	04/03/17 09:52	1
Benzo(a)pyrene	ND		160	24	ug/Kg		03/31/17 14:31	04/03/17 09:52	1
Benzo(b)fluoranthene	ND		160	26	ug/Kg		03/31/17 14:31	04/03/17 09:52	1
Benzo(g,h,i)perylene	ND		160	17	ug/Kg		03/31/17 14:31	04/03/17 09:52	1
Benzo(k)fluoranthene	ND		160	21	ug/Kg		03/31/17 14:31	04/03/17 09:52	1
Chrysene	ND		160	37	ug/Kg		03/31/17 14:31	04/03/17 09:52	1
Dibenz(a,h)anthracene	ND		160	29	ug/Kg		03/31/17 14:31	04/03/17 09:52	1
Dibenzofuran	ND		160	19	ug/Kg		03/31/17 14:31	04/03/17 09:52	1
Fluoranthene	ND		160	17	ug/Kg		03/31/17 14:31	04/03/17 09:52	1
Fluorene	ND		160	19	ug/Kg		03/31/17 14:31	04/03/17 09:52	1
Hexachlorobenzene	ND		160	22	ug/Kg		03/31/17 14:31	04/03/17 09:52	1
Indeno(1,2,3-cd)pyrene	ND		160	20	ug/Kg		03/31/17 14:31	04/03/17 09:52	1
m-Cresol	ND		320	25	ug/Kg		03/31/17 14:31	04/03/17 09:52	1
Naphthalene	ND		160	21	ug/Kg		03/31/17 14:31	04/03/17 09:52	1
o-Cresol	ND		160	19	ug/Kg		03/31/17 14:31	04/03/17 09:52	1
p-Cresol	ND		320	19	ug/Kg		03/31/17 14:31	04/03/17 09:52	1
Pentachlorophenol	ND		320	160	ug/Kg		03/31/17 14:31	04/03/17 09:52	1
Phenanthrene	ND		160	24	ug/Kg		03/31/17 14:31	04/03/17 09:52	1
Phenol	ND		160	25	ug/Kg		03/31/17 14:31	04/03/17 09:52	1
Pyrene	ND		160	19	ug/Kg		03/31/17 14:31	04/03/17 09:52	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-349772/1-A
Matrix: Solid
Analysis Batch: 349915

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349772

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol	84		54 - 120	03/31/17 14:31	04/03/17 09:52	1
2-Fluorobiphenyl	86		60 - 120	03/31/17 14:31	04/03/17 09:52	1
2-Fluorophenol	74		52 - 120	03/31/17 14:31	04/03/17 09:52	1
Nitrobenzene-d5	78		53 - 120	03/31/17 14:31	04/03/17 09:52	1
Phenol-d5	78		54 - 120	03/31/17 14:31	04/03/17 09:52	1
p-Terphenyl-d14	86		65 - 121	03/31/17 14:31	04/03/17 09:52	1

Lab Sample ID: LCS 480-349772/2-A
Matrix: Solid
Analysis Batch: 349915

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349772

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1660	1540		ug/Kg		93	62 - 120
Acenaphthylene	1660	1580		ug/Kg		96	58 - 121
Anthracene	1660	1610		ug/Kg		97	62 - 120
Benzo(a)anthracene	1660	1660		ug/Kg		100	65 - 120
Benzo(a)pyrene	1660	1640		ug/Kg		99	64 - 120
Benzo(b)fluoranthene	1660	1770		ug/Kg		107	64 - 120
Benzo(g,h,i)perylene	1660	1710		ug/Kg		103	45 - 145
Benzo(k)fluoranthene	1660	1550		ug/Kg		93	65 - 120
Chrysene	1660	1630		ug/Kg		98	64 - 120
Dibenz(a,h)anthracene	1660	1690		ug/Kg		102	54 - 132
Dibenzofuran	1660	1620		ug/Kg		98	63 - 120
Fluoranthene	1660	1770		ug/Kg		107	62 - 120
Fluorene	1660	1620		ug/Kg		98	63 - 120
Hexachlorobenzene	1660	1750		ug/Kg		105	60 - 120
Indeno(1,2,3-cd)pyrene	1660	1670		ug/Kg		101	56 - 134
Naphthalene	1660	1450		ug/Kg		87	55 - 120
o-Cresol	1660	1390		ug/Kg		84	54 - 120
p-Cresol	1660	1410		ug/Kg		85	55 - 120
Pentachlorophenol	3310	3210		ug/Kg		97	51 - 120
Phenanthrene	1660	1620		ug/Kg		98	60 - 120
Phenol	1660	1390		ug/Kg		84	53 - 120
Pyrene	1660	1570		ug/Kg		95	61 - 133

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	105		54 - 120
2-Fluorobiphenyl	88		60 - 120
2-Fluorophenol	77		52 - 120
Nitrobenzene-d5	80		53 - 120
Phenol-d5	82		54 - 120
p-Terphenyl-d14	91		65 - 121

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-349858/1-A
Matrix: Solid
Analysis Batch: 350143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349858

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.6	0.31	ug/Kg		04/01/17 08:27	04/04/17 13:03	1
4,4'-DDE	ND		1.6	0.34	ug/Kg		04/01/17 08:27	04/04/17 13:03	1
4,4'-DDT	ND		1.6	0.38	ug/Kg		04/01/17 08:27	04/04/17 13:03	1
Aldrin	ND		1.6	0.40	ug/Kg		04/01/17 08:27	04/04/17 13:03	1
alpha-BHC	ND		1.6	0.29	ug/Kg		04/01/17 08:27	04/04/17 13:03	1
alpha-Chlordane	ND		1.6	0.81	ug/Kg		04/01/17 08:27	04/04/17 13:03	1
beta-BHC	ND		1.6	0.29	ug/Kg		04/01/17 08:27	04/04/17 13:03	1
delta-BHC	ND		1.6	0.30	ug/Kg		04/01/17 08:27	04/04/17 13:03	1
Dieldrin	ND		1.6	0.39	ug/Kg		04/01/17 08:27	04/04/17 13:03	1
Endosulfan I	ND		1.6	0.31	ug/Kg		04/01/17 08:27	04/04/17 13:03	1
Endosulfan II	ND		1.6	0.29	ug/Kg		04/01/17 08:27	04/04/17 13:03	1
Endosulfan sulfate	ND		1.6	0.30	ug/Kg		04/01/17 08:27	04/04/17 13:03	1
Endrin	ND		1.6	0.32	ug/Kg		04/01/17 08:27	04/04/17 13:03	1
Heptachlor	ND		1.6	0.35	ug/Kg		04/01/17 08:27	04/04/17 13:03	1
Lindane	ND		1.6	0.30	ug/Kg		04/01/17 08:27	04/04/17 13:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	87		45 - 120	04/01/17 08:27	04/04/17 13:03	1
Tetrachloro-m-xylene	65		30 - 124	04/01/17 08:27	04/04/17 13:03	1

Lab Sample ID: LCS 480-349858/2-A
Matrix: Solid
Analysis Batch: 350143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349858

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
4,4'-DDD	16.3	12.4		ug/Kg		76	56 - 120
4,4'-DDE	16.3	12.5		ug/Kg		76	44 - 120
4,4'-DDT	16.3	12.9		ug/Kg		79	38 - 120
Aldrin	16.3	9.20		ug/Kg		56	38 - 120
alpha-BHC	16.3	8.43		ug/Kg		52	39 - 120
alpha-Chlordane	16.3	13.2		ug/Kg		81	47 - 120
beta-BHC	16.3	9.86		ug/Kg		60	40 - 120
delta-BHC	16.3	10.4		ug/Kg		64	45 - 120
Dieldrin	16.3	12.5		ug/Kg		77	58 - 120
Endosulfan I	16.3	16.9		ug/Kg		103	49 - 120
Endosulfan II	16.3	12.8		ug/Kg		78	55 - 120
Endosulfan sulfate	16.3	14.2		ug/Kg		87	49 - 124
Endrin	16.3	12.3		ug/Kg		75	58 - 120
Heptachlor	16.3	11.2		ug/Kg		69	50 - 120
Lindane	16.3	10.8		ug/Kg		66	50 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	91		45 - 120
Tetrachloro-m-xylene	79		30 - 124

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-349695/1-A
Matrix: Solid
Analysis Batch: 349735

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349695

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.047	mg/Kg		03/31/17 10:29	03/31/17 19:37	1
PCB-1221	ND		0.24	0.047	mg/Kg		03/31/17 10:29	03/31/17 19:37	1
PCB-1232	ND		0.24	0.047	mg/Kg		03/31/17 10:29	03/31/17 19:37	1
PCB-1242	ND		0.24	0.047	mg/Kg		03/31/17 10:29	03/31/17 19:37	1
PCB-1248	ND		0.24	0.047	mg/Kg		03/31/17 10:29	03/31/17 19:37	1
PCB-1254	ND		0.24	0.11	mg/Kg		03/31/17 10:29	03/31/17 19:37	1
PCB-1260	ND		0.24	0.11	mg/Kg		03/31/17 10:29	03/31/17 19:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	124		60 - 154	03/31/17 10:29	03/31/17 19:37	1
DCB Decachlorobiphenyl	133		65 - 174	03/31/17 10:29	03/31/17 19:37	1

Lab Sample ID: LCS 480-349695/2-A
Matrix: Solid
Analysis Batch: 349735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349695

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	1.82	2.31		mg/Kg		126	51 - 185
PCB-1260	1.82	2.56		mg/Kg		141	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	140		60 - 154
DCB Decachlorobiphenyl	170		65 - 174

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-349861/1-A
Matrix: Solid
Analysis Batch: 350190

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349861

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	ND		16	5.9	ug/Kg		04/01/17 08:37	04/04/17 14:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	78		28 - 129	04/01/17 08:37	04/04/17 14:56	1

Lab Sample ID: LCS 480-349861/2-A
Matrix: Solid
Analysis Batch: 350190

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349861

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Silvex (2,4,5-TP)	65.9	49.6		ug/Kg		75	39 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	65		28 - 129

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-349751/1-A
Matrix: Solid
Analysis Batch: 349931

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349751

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.1	0.43	mg/Kg		03/31/17 15:51	04/01/17 18:35	1
Barium	ND		0.53	0.12	mg/Kg		03/31/17 15:51	04/01/17 18:35	1
Beryllium	ND		0.21	0.030	mg/Kg		03/31/17 15:51	04/01/17 18:35	1
Cadmium	ND		0.21	0.032	mg/Kg		03/31/17 15:51	04/01/17 18:35	1
Copper	ND		1.1	0.22	mg/Kg		03/31/17 15:51	04/01/17 18:35	1
Lead	ND		1.1	0.26	mg/Kg		03/31/17 15:51	04/01/17 18:35	1
Manganese	0.165	J	0.21	0.034	mg/Kg		03/31/17 15:51	04/01/17 18:35	1
Nickel	ND		5.3	0.25	mg/Kg		03/31/17 15:51	04/01/17 18:35	1
Selenium	ND		4.3	0.43	mg/Kg		03/31/17 15:51	04/01/17 18:35	1
Silver	ND		0.64	0.21	mg/Kg		03/31/17 15:51	04/01/17 18:35	1
Zinc	ND		2.1	0.68	mg/Kg		03/31/17 15:51	04/01/17 18:35	1

Lab Sample ID: LCSSRM 480-349751/2-A
Matrix: Solid
Analysis Batch: 349931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349751

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	Limits
Arsenic	145	126.0		mg/Kg		86.9	70.3 - 136.6
Barium	209	181.1		mg/Kg		86.7	73.7 - 126.8
Beryllium	97.3	81.47		mg/Kg		83.7	74.5 - 125.4
Cadmium	87.6	72.26		mg/Kg		82.5	73.3 - 126.7
Copper	173	148.0		mg/Kg		85.5	75.1 - 124.3
Lead	146	146.2		mg/Kg		100.2	73.3 - 126.7
Manganese	309	275.0		mg/Kg		89.0	74.8 - 125.2
Nickel	129	127.1		mg/Kg		98.5	73.0 - 127.1
Selenium	178	150.5		mg/Kg		84.6	68.0 - 131.5
Silver	31.3	26.35		mg/Kg		84.2	65.2 - 134.5
Zinc	194	165.1		mg/Kg		85.1	69.6 - 118.0

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-349859/1-A
Matrix: Solid
Analysis Batch: 349973

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349859

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.019	0.0075	mg/Kg		04/03/17 06:50	04/03/17 09:58	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCDSRM 480-349859/3-A ^10
Matrix: Solid
Analysis Batch: 349973

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 349859

Analyte	Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	12.6	11.09		mg/Kg		88.0	44.4 - 128.6	1	20

Lab Sample ID: LCSSRM 480-349859/2-A ^10
Matrix: Solid
Analysis Batch: 349973

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349859

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	12.6	11.16		mg/Kg		88.6	44.4 - 128.6	1	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 460-428140/1-A
Matrix: Solid
Analysis Batch: 428418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 428140

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	ND		2.0	0.40	mg/Kg		04/04/17 13:30	04/05/17 14:50	1

Lab Sample ID: LCSIR 460-428140/3-A
Matrix: Solid
Analysis Batch: 428418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428140

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Hexavalent chromium	708	677.4		mg/Kg		96	80 - 120		

Lab Sample ID: LCSSRM 460-428140/2-A
Matrix: Solid
Analysis Batch: 428418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428140

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Hexavalent chromium	12.8	13.20		mg/Kg		103.5	88.7 - 110.0		

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-350118/1-A
Matrix: Solid
Analysis Batch: 350459

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 350118

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.551	J	0.83	0.40	mg/Kg		04/04/17 11:55	04/05/17 14:37	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LCSSRM 480-350118/2-A
Matrix: Solid
Analysis Batch: 350459

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 350118

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	39.6	44.04		mg/Kg		111.2	33.3 - 195.2

Lab Sample ID: 480-115334-1 MS
Matrix: Solid
Analysis Batch: 350459

Client Sample ID: WATER LINE TRENCH
Prep Type: Total/NA
Prep Batch: 350118

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	0.97	J B F1	12.2	11.29	F1	mg/Kg	☼	84	85 - 115

Lab Sample ID: 480-115334-1 DU
Matrix: Solid
Analysis Batch: 350459

Client Sample ID: WATER LINE TRENCH
Prep Type: Total/NA
Prep Batch: 350118

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Cyanide, Total	0.97	J B F1	ND		mg/Kg	☼	NC	15

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

GC/MS VOA

Analysis Batch: 349642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115334-1	WATER LINE TRENCH	Total/NA	Solid	8260C	349673
480-115334-2	ELECTRIC LINE TRENCH	Total/NA	Solid	8260C	349673
480-115334-3	STORMWATER BASIN	Total/NA	Solid	8260C	349673
480-115334-4	FIRE LANE	Total/NA	Solid	8260C	349673
MB 480-349673/2-A	Method Blank	Total/NA	Solid	8260C	349673
LCS 480-349673/1-A	Lab Control Sample	Total/NA	Solid	8260C	349673
480-115334-1 MS	WATER LINE TRENCH	Total/NA	Solid	8260C	349673
480-115334-1 MSD	WATER LINE TRENCH	Total/NA	Solid	8260C	349673

Prep Batch: 349673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115334-1	WATER LINE TRENCH	Total/NA	Solid	5035A_L	
480-115334-2	ELECTRIC LINE TRENCH	Total/NA	Solid	5035A_L	
480-115334-3	STORMWATER BASIN	Total/NA	Solid	5035A_L	
480-115334-4	FIRE LANE	Total/NA	Solid	5035A_L	
MB 480-349673/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-349673/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-115334-1 MS	WATER LINE TRENCH	Total/NA	Solid	5035A_L	
480-115334-1 MSD	WATER LINE TRENCH	Total/NA	Solid	5035A_L	

GC/MS Semi VOA

Prep Batch: 349772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115334-1	WATER LINE TRENCH	Total/NA	Solid	3550C	
480-115334-2	ELECTRIC LINE TRENCH	Total/NA	Solid	3550C	
480-115334-3	STORMWATER BASIN	Total/NA	Solid	3550C	
480-115334-4	FIRE LANE	Total/NA	Solid	3550C	
MB 480-349772/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-349772/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 349915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115334-1	WATER LINE TRENCH	Total/NA	Solid	8270D	349772
480-115334-2	ELECTRIC LINE TRENCH	Total/NA	Solid	8270D	349772
480-115334-3	STORMWATER BASIN	Total/NA	Solid	8270D	349772
480-115334-4	FIRE LANE	Total/NA	Solid	8270D	349772
MB 480-349772/1-A	Method Blank	Total/NA	Solid	8270D	349772
LCS 480-349772/2-A	Lab Control Sample	Total/NA	Solid	8270D	349772

GC Semi VOA

Prep Batch: 349695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115334-1	WATER LINE TRENCH	Total/NA	Solid	3550C	
480-115334-2	ELECTRIC LINE TRENCH	Total/NA	Solid	3550C	
480-115334-3	STORMWATER BASIN	Total/NA	Solid	3550C	
480-115334-4	FIRE LANE	Total/NA	Solid	3550C	
MB 480-349695/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-349695/2-A	Lab Control Sample	Total/NA	Solid	3550C	

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

GC Semi VOA (Continued)

Analysis Batch: 349735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115334-1	WATER LINE TRENCH	Total/NA	Solid	8082A	349695
480-115334-2	ELECTRIC LINE TRENCH	Total/NA	Solid	8082A	349695
480-115334-3	STORMWATER BASIN	Total/NA	Solid	8082A	349695
480-115334-4	FIRE LANE	Total/NA	Solid	8082A	349695
MB 480-349695/1-A	Method Blank	Total/NA	Solid	8082A	349695
LCS 480-349695/2-A	Lab Control Sample	Total/NA	Solid	8082A	349695

Prep Batch: 349858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115334-1	WATER LINE TRENCH	Total/NA	Solid	3550C	
480-115334-2	ELECTRIC LINE TRENCH	Total/NA	Solid	3550C	
480-115334-3	STORMWATER BASIN	Total/NA	Solid	3550C	
480-115334-4	FIRE LANE	Total/NA	Solid	3550C	
MB 480-349858/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-349858/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Prep Batch: 349861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115334-1	WATER LINE TRENCH	Total/NA	Solid	8151A	
480-115334-2	ELECTRIC LINE TRENCH	Total/NA	Solid	8151A	
480-115334-3	STORMWATER BASIN	Total/NA	Solid	8151A	
480-115334-4	FIRE LANE	Total/NA	Solid	8151A	
MB 480-349861/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-349861/2-A	Lab Control Sample	Total/NA	Solid	8151A	

Analysis Batch: 350143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115334-1	WATER LINE TRENCH	Total/NA	Solid	8081B	349858
480-115334-2	ELECTRIC LINE TRENCH	Total/NA	Solid	8081B	349858
480-115334-3	STORMWATER BASIN	Total/NA	Solid	8081B	349858
480-115334-4	FIRE LANE	Total/NA	Solid	8081B	349858
MB 480-349858/1-A	Method Blank	Total/NA	Solid	8081B	349858
LCS 480-349858/2-A	Lab Control Sample	Total/NA	Solid	8081B	349858

Analysis Batch: 350190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115334-1	WATER LINE TRENCH	Total/NA	Solid	8151A	349861
480-115334-2	ELECTRIC LINE TRENCH	Total/NA	Solid	8151A	349861
480-115334-3	STORMWATER BASIN	Total/NA	Solid	8151A	349861
480-115334-4	FIRE LANE	Total/NA	Solid	8151A	349861
MB 480-349861/1-A	Method Blank	Total/NA	Solid	8151A	349861
LCS 480-349861/2-A	Lab Control Sample	Total/NA	Solid	8151A	349861

Metals

Prep Batch: 349751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115334-1	WATER LINE TRENCH	Total/NA	Solid	3050B	
480-115334-2	ELECTRIC LINE TRENCH	Total/NA	Solid	3050B	
480-115334-3	STORMWATER BASIN	Total/NA	Solid	3050B	

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Metals (Continued)

Prep Batch: 349751 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115334-4	FIRE LANE	Total/NA	Solid	3050B	
MB 480-349751/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-349751/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 349859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115334-1	WATER LINE TRENCH	Total/NA	Solid	7471B	
480-115334-2	ELECTRIC LINE TRENCH	Total/NA	Solid	7471B	
480-115334-3	STORMWATER BASIN	Total/NA	Solid	7471B	
480-115334-4	FIRE LANE	Total/NA	Solid	7471B	
MB 480-349859/1-A	Method Blank	Total/NA	Solid	7471B	
LCDSRM 480-349859/3-A ^1	Lab Control Sample Dup	Total/NA	Solid	7471B	
LCSSRM 480-349859/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 349931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115334-1	WATER LINE TRENCH	Total/NA	Solid	6010C	349751
480-115334-2	ELECTRIC LINE TRENCH	Total/NA	Solid	6010C	349751
480-115334-3	STORMWATER BASIN	Total/NA	Solid	6010C	349751
480-115334-4	FIRE LANE	Total/NA	Solid	6010C	349751
MB 480-349751/1-A	Method Blank	Total/NA	Solid	6010C	349751
LCSSRM 480-349751/2-A	Lab Control Sample	Total/NA	Solid	6010C	349751

Analysis Batch: 349973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115334-1	WATER LINE TRENCH	Total/NA	Solid	7471B	349859
480-115334-2	ELECTRIC LINE TRENCH	Total/NA	Solid	7471B	349859
480-115334-3	STORMWATER BASIN	Total/NA	Solid	7471B	349859
480-115334-4	FIRE LANE	Total/NA	Solid	7471B	349859
MB 480-349859/1-A	Method Blank	Total/NA	Solid	7471B	349859
LCDSRM 480-349859/3-A ^1	Lab Control Sample Dup	Total/NA	Solid	7471B	349859
LCSSRM 480-349859/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	349859

Analysis Batch: 350074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115334-3	STORMWATER BASIN	Total/NA	Solid	6010C	349751

General Chemistry

Analysis Batch: 349621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115334-1	WATER LINE TRENCH	Total/NA	Solid	Moisture	
480-115334-2	ELECTRIC LINE TRENCH	Total/NA	Solid	Moisture	
480-115334-3	STORMWATER BASIN	Total/NA	Solid	Moisture	
480-115334-4	FIRE LANE	Total/NA	Solid	Moisture	

Prep Batch: 350118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115334-1	WATER LINE TRENCH	Total/NA	Solid	9012B	
480-115334-2	ELECTRIC LINE TRENCH	Total/NA	Solid	9012B	

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

General Chemistry (Continued)

Prep Batch: 350118 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115334-3	STORMWATER BASIN	Total/NA	Solid	9012B	
480-115334-4	FIRE LANE	Total/NA	Solid	9012B	
MB 480-350118/1-A	Method Blank	Total/NA	Solid	9012B	
LCSSRM 480-350118/2-A	Lab Control Sample	Total/NA	Solid	9012B	
480-115334-1 MS	WATER LINE TRENCH	Total/NA	Solid	9012B	
480-115334-1 DU	WATER LINE TRENCH	Total/NA	Solid	9012B	

Analysis Batch: 350457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115334-1	WATER LINE TRENCH	Total/NA	Solid	SM 3500 CR D	
480-115334-2	ELECTRIC LINE TRENCH	Total/NA	Solid	SM 3500 CR D	
480-115334-3	STORMWATER BASIN	Total/NA	Solid	SM 3500 CR D	
480-115334-4	FIRE LANE	Total/NA	Solid	SM 3500 CR D	

Analysis Batch: 350459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115334-1	WATER LINE TRENCH	Total/NA	Solid	9012B	350118
480-115334-2	ELECTRIC LINE TRENCH	Total/NA	Solid	9012B	350118
480-115334-3	STORMWATER BASIN	Total/NA	Solid	9012B	350118
480-115334-4	FIRE LANE	Total/NA	Solid	9012B	350118
MB 480-350118/1-A	Method Blank	Total/NA	Solid	9012B	350118
LCSSRM 480-350118/2-A	Lab Control Sample	Total/NA	Solid	9012B	350118
480-115334-1 MS	WATER LINE TRENCH	Total/NA	Solid	9012B	350118
480-115334-1 DU	WATER LINE TRENCH	Total/NA	Solid	9012B	350118

Prep Batch: 428140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115334-1	WATER LINE TRENCH	Total/NA	Solid	3060A	
480-115334-2	ELECTRIC LINE TRENCH	Total/NA	Solid	3060A	
480-115334-3	STORMWATER BASIN	Total/NA	Solid	3060A	
480-115334-4	FIRE LANE	Total/NA	Solid	3060A	
MB 460-428140/1-A	Method Blank	Total/NA	Solid	3060A	
LCSI 460-428140/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-428140/2-A	Lab Control Sample	Total/NA	Solid	3060A	

Analysis Batch: 428418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115334-1	WATER LINE TRENCH	Total/NA	Solid	7196A	428140
480-115334-2	ELECTRIC LINE TRENCH	Total/NA	Solid	7196A	428140
480-115334-3	STORMWATER BASIN	Total/NA	Solid	7196A	428140
480-115334-4	FIRE LANE	Total/NA	Solid	7196A	428140
MB 460-428140/1-A	Method Blank	Total/NA	Solid	7196A	428140
LCSI 460-428140/3-A	Lab Control Sample	Total/NA	Solid	7196A	428140
LCSSRM 460-428140/2-A	Lab Control Sample	Total/NA	Solid	7196A	428140

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Client Sample ID: WATER LINE TRENCH

Date Collected: 03/30/17 15:00

Date Received: 03/30/17 16:40

Lab Sample ID: 480-115334-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	349621	03/31/17 07:21	CSW	TAL BUF
Total/NA	Analysis	SM 3500 CR D		1	350457	04/05/17 15:44	MTM2	TAL BUF

Client Sample ID: WATER LINE TRENCH

Date Collected: 03/30/17 15:00

Date Received: 03/30/17 16:40

Lab Sample ID: 480-115334-1

Matrix: Solid

Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			349673	03/31/17 09:34	JAS	TAL BUF
Total/NA	Analysis	8260C		1	349642	03/31/17 13:02	JAS	TAL BUF
Total/NA	Prep	3550C			349772	03/31/17 14:31	SMP	TAL BUF
Total/NA	Analysis	8270D		5	349915	04/03/17 15:08	LMW	TAL BUF
Total/NA	Prep	3550C			349858	04/01/17 08:28	RJS	TAL BUF
Total/NA	Analysis	8081B		1	350143	04/04/17 14:40	MAN	TAL BUF
Total/NA	Prep	3550C			349695	03/31/17 10:29	MAS	TAL BUF
Total/NA	Analysis	8082A		1	349735	03/31/17 21:44	JMO	TAL BUF
Total/NA	Prep	8151A			349861	04/01/17 08:37	RJS	TAL BUF
Total/NA	Analysis	8151A		1	350190	04/04/17 16:57	TRG	TAL BUF
Total/NA	Prep	3050B			349751	03/31/17 15:51	BMB	TAL BUF
Total/NA	Analysis	6010C		1	349931	04/01/17 18:42	LMH	TAL BUF
Total/NA	Prep	7471B			349859	04/03/17 06:50	JRK	TAL BUF
Total/NA	Analysis	7471B		1	349973	04/03/17 10:19	JRK	TAL BUF
Total/NA	Prep	3060A			428140	04/04/17 13:30	PXP	TAL EDI
Total/NA	Analysis	7196A		1	428418	04/05/17 16:15	RAK	TAL EDI
Total/NA	Prep	9012B			350118	04/04/17 11:55	CLT	TAL BUF
Total/NA	Analysis	9012B		1	350459	04/05/17 14:40	KRT	TAL BUF

Client Sample ID: ELECTRIC LINE TRENCH

Date Collected: 03/30/17 15:10

Date Received: 03/30/17 16:40

Lab Sample ID: 480-115334-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	349621	03/31/17 07:21	CSW	TAL BUF
Total/NA	Analysis	SM 3500 CR D		1	350457	04/05/17 15:44	MTM2	TAL BUF

Client Sample ID: ELECTRIC LINE TRENCH

Date Collected: 03/30/17 15:10

Date Received: 03/30/17 16:40

Lab Sample ID: 480-115334-2

Matrix: Solid

Percent Solids: 76.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			349673	03/31/17 09:34	JAS	TAL BUF
Total/NA	Analysis	8260C		1	349642	03/31/17 13:27	JAS	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Client Sample ID: ELECTRIC LINE TRENCH

Lab Sample ID: 480-115334-2

Date Collected: 03/30/17 15:10

Matrix: Solid

Date Received: 03/30/17 16:40

Percent Solids: 76.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			349772	03/31/17 14:31	SMP	TAL BUF
Total/NA	Analysis	8270D		5	349915	04/03/17 15:34	LMW	TAL BUF
Total/NA	Prep	3550C			349858	04/01/17 08:28	RJS	TAL BUF
Total/NA	Analysis	8081B		1	350143	04/04/17 15:00	MAN	TAL BUF
Total/NA	Prep	3550C			349695	03/31/17 10:29	MAS	TAL BUF
Total/NA	Analysis	8082A		1	349735	03/31/17 22:00	JMO	TAL BUF
Total/NA	Prep	8151A			349861	04/01/17 08:37	RJS	TAL BUF
Total/NA	Analysis	8151A		1	350190	04/04/17 17:27	TRG	TAL BUF
Total/NA	Prep	3050B			349751	03/31/17 15:51	BMB	TAL BUF
Total/NA	Analysis	6010C		1	349931	04/01/17 18:45	LMH	TAL BUF
Total/NA	Prep	7471B			349859	04/03/17 06:50	JRK	TAL BUF
Total/NA	Analysis	7471B		1	349973	04/03/17 10:21	JRK	TAL BUF
Total/NA	Prep	3060A			428140	04/04/17 13:30	PXP	TAL EDI
Total/NA	Analysis	7196A		1	428418	04/05/17 16:15	RAK	TAL EDI
Total/NA	Prep	9012B			350118	04/04/17 11:55	CLT	TAL BUF
Total/NA	Analysis	9012B		1	350459	04/05/17 14:44	KRT	TAL BUF

Client Sample ID: STORMWATER BASIN

Lab Sample ID: 480-115334-3

Date Collected: 03/30/17 15:20

Matrix: Solid

Date Received: 03/30/17 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	349621	03/31/17 07:21	CSW	TAL BUF
Total/NA	Analysis	SM 3500 CR D		1	350457	04/05/17 15:44	MTM2	TAL BUF

Client Sample ID: STORMWATER BASIN

Lab Sample ID: 480-115334-3

Date Collected: 03/30/17 15:20

Matrix: Solid

Date Received: 03/30/17 16:40

Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			349673	03/31/17 09:34	JAS	TAL BUF
Total/NA	Analysis	8260C		1	349642	03/31/17 13:53	JAS	TAL BUF
Total/NA	Prep	3550C			349772	03/31/17 14:31	SMP	TAL BUF
Total/NA	Analysis	8270D		1	349915	04/03/17 16:00	LMW	TAL BUF
Total/NA	Prep	3550C			349858	04/01/17 08:28	RJS	TAL BUF
Total/NA	Analysis	8081B		5	350143	04/04/17 15:20	MAN	TAL BUF
Total/NA	Prep	3550C			349695	03/31/17 10:29	MAS	TAL BUF
Total/NA	Analysis	8082A		1	349735	03/31/17 22:16	JMO	TAL BUF
Total/NA	Prep	8151A			349861	04/01/17 08:37	RJS	TAL BUF
Total/NA	Analysis	8151A		1	350190	04/04/17 17:57	TRG	TAL BUF
Total/NA	Prep	3050B			349751	03/31/17 15:51	BMB	TAL BUF
Total/NA	Analysis	6010C		1	349931	04/01/17 18:48	LMH	TAL BUF
Total/NA	Prep	3050B			349751	03/31/17 15:51	BMB	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Client Sample ID: STORMWATER BASIN

Lab Sample ID: 480-115334-3

Date Collected: 03/30/17 15:20

Matrix: Solid

Date Received: 03/30/17 16:40

Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		2	350074	04/03/17 14:09	LMH	TAL BUF
Total/NA	Prep	7471B			349859	04/03/17 06:50	JRK	TAL BUF
Total/NA	Analysis	7471B		1	349973	04/03/17 10:23	JRK	TAL BUF
Total/NA	Prep	3060A			428140	04/04/17 13:30	PXP	TAL EDI
Total/NA	Analysis	7196A		1	428418	04/05/17 16:15	RAK	TAL EDI
Total/NA	Prep	9012B			350118	04/04/17 11:55	CLT	TAL BUF
Total/NA	Analysis	9012B		1	350459	04/05/17 14:46	KRT	TAL BUF

Client Sample ID: FIRE LANE

Lab Sample ID: 480-115334-4

Date Collected: 03/30/17 15:30

Matrix: Solid

Date Received: 03/30/17 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	349621	03/31/17 07:21	CSW	TAL BUF
Total/NA	Analysis	SM 3500 CR D		1	350457	04/05/17 15:44	MTM2	TAL BUF

Client Sample ID: FIRE LANE

Lab Sample ID: 480-115334-4

Date Collected: 03/30/17 15:30

Matrix: Solid

Date Received: 03/30/17 16:40

Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			349673	03/31/17 09:34	JAS	TAL BUF
Total/NA	Analysis	8260C		1	349642	03/31/17 14:18	JAS	TAL BUF
Total/NA	Prep	3550C			349772	03/31/17 14:33	SMP	TAL BUF
Total/NA	Analysis	8270D		1	349915	04/03/17 16:27	LMW	TAL BUF
Total/NA	Prep	3550C			349858	04/01/17 08:28	RJS	TAL BUF
Total/NA	Analysis	8081B		2	350143	04/04/17 15:39	MAN	TAL BUF
Total/NA	Prep	3550C			349695	03/31/17 10:29	MAS	TAL BUF
Total/NA	Analysis	8082A		1	349735	03/31/17 22:32	JMO	TAL BUF
Total/NA	Prep	8151A			349861	04/01/17 08:37	RJS	TAL BUF
Total/NA	Analysis	8151A		1	350190	04/04/17 18:27	TRG	TAL BUF
Total/NA	Prep	3050B			349751	03/31/17 15:51	BMB	TAL BUF
Total/NA	Analysis	6010C		1	349931	04/01/17 19:02	LMH	TAL BUF
Total/NA	Prep	7471B			349859	04/03/17 06:50	JRK	TAL BUF
Total/NA	Analysis	7471B		1	349973	04/03/17 10:24	JRK	TAL BUF
Total/NA	Prep	3060A			428140	04/04/17 13:30	PXP	TAL EDI
Total/NA	Analysis	7196A		1	428418	04/05/17 16:15	RAK	TAL EDI
Total/NA	Prep	9012B			350118	04/04/17 11:55	CLT	TAL BUF
Total/NA	Analysis	9012B		1	350459	04/05/17 14:47	KRT	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TestAmerica Buffalo

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
 Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids
SM 3500 CR D		Solid	Chromium, trivalent

Laboratory: TestAmerica Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-17
New Jersey	NELAP	2	12028	06-30-17
New York	NELAP	2	11452	04-01-18
Pennsylvania	NELAP	3	68-00522	02-28-18
Rhode Island	State Program	1	LAO00132	12-30-17
USDA	Federal		NJCA-003-08	04-04-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151A	Herbicides (GC)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
7196A	Chromium, Hexavalent	SW846	TAL EDI
9012B	Cyanide, Total and/or Amenable	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
SM 3500 CR D	Chromium, Trivalent	SM	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-115334-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-115334-1	WATER LINE TRENCH	Solid	03/30/17 15:00	03/30/17 16:40
480-115334-2	ELECTRIC LINE TRENCH	Solid	03/30/17 15:10	03/30/17 16:40
480-115334-3	STORMWATER BASIN	Solid	03/30/17 15:20	03/30/17 16:40
480-115334-4	FIRE LANE	Solid	03/30/17 15:30	03/30/17 16:40

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____
 Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1007)

Client: **ARCADIS** Project Manager: **KATHERINE CLUBINE** Chain of Custody Number: **294615**

Address: **50 FOUNTAIN PLAZA SUITE 600** Telephone Number (Area Code)/Fax Number: **716.667.6637** Lab Number: _____ Page 1 of 1

City: **BUFFALO** State: **NY** Zip Code: **14202** Site Contact: **MELISSA DEVO**

Project Name and Location (State): **FLEXO TRANSPARENT LLC** Carrier/Waybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl			HNO2/NaOH
WATER LINE TRENCH	3-30-17	15:00			X					6			SEE ATTACHED
ELECTRIC LINE TRENCH	↓	15:10			X					6			LIST OF PARAMETERS
STORMWATER BASIN	↓	15:20			X					6			FOR ANALYSIS
FIRE LANE	↓	15:30			X					8			



480-115334 COC

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Other: SDA

Turn Around Time Required:
 24 Hours 48 Hours 7 Days 14 Days 21 Days

Sample Disposal:
 Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

QC Requirements (Specify):
 1. Relinquished By: [Signature] Date: 5-30-17 Time: 16:40
 2. Relinquished By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____

1. Received By: [Signature] Date: 5/30/17 Time: 16:40
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: #1 4.7.1



TestAmerica Buffalo
 10 Hazelwood Drive
 Amherst, NY 14228-2298
 Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record



TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)
 Client Contact: Phone: Deyo, Melissa L
 Shipping/Receiving: E-Mail: melissa.deyo@testamericainc.com
 Company: TestAmerica Laboratories, Inc. Accreditations Required (See note): NELAP - New York
 Address: 777 New Durham Road, Due Date Requested: 4/6/2017
 City: TAT Requested (days):
 Edison
 State Zip: NJ, 08817
 Phone: 732-549-3900(Tel) 732-549-3679(Fax)
 Email: WO #:
 Project Name: Project #: 48014909
 Flexo Transparent
 Site: SSOV#:

Analysis Requested
 Lab PM: Deyo, Melissa L
 Carrier Tracking No(s):
 State of Origin: New York
 Page: 480-34048-1
 Page 1 of 1
 Job #: 480-115334-1
 Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Anchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2SO4
 Q - Na2S2O3
 R - Na2S2O8
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4.5
 Z - other (specify)
 Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (G=comp, G=grab)	Matrix (Mercury, Solids, Organics, Metals)	Field Filtered Sample (Yes or No)	Analysis Requested	Total Number of Containers	Special Instructions/Note
WATER LINE TRENCH (480-115334-1)	3/30/17	15:00	Solid	Solid	X	7196A/3060A Hexavalent Chromium	X	
ELECTRIC LINE TRENCH (480-115334-2)	3/30/17	15:10	Solid	Solid	X			
STORMWATER BASIN (480-115334-3)	3/30/17	15:20	Solid	Solid	X			
FIRE LANE (480-115334-4)	3/30/17	15:30	Solid	Solid	X			

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontracted laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analyte(s)/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: _____
 Relinquished by: Date/Time: 3/21/17 17:00 Company: ARB
 Relinquished by: Date/Time: _____ Company: _____
 Relinquished by: Date/Time: _____ Company: _____

Custody Seals Intact: Yes No
 Custody Seal No.: 858825
 Cooler Temperature(s) °C and Other Remarks: 18 4.20C

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-115334-1

Login Number: 115334

List Number: 1

Creator: Janish, Carl M

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
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 sample IDs on the containers 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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	arcadis
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-115334-1

Login Number: 115334

List Number: 2

Creator: Armbruster, Chris

List Source: TestAmerica Edison

List Creation: 04/03/17 01:36 PM

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	858825
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	4.2°C IR8
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.	True	
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 E

Imported Material Documentation





13870 Taylor Hollow Rd, Collins, New York, 14034 - 716-532-3371 - Fax 716-532-9000

2/8/2017

PINTO CONSTRUCTION INC.
1 BABCOCK STREET
BUFFALO NY 14210

Via Fax: 716-825-6773

ATTENTION: Drew Kosicki

RE: Material Submittal: Flexo Transparent - Buffalo, NY - #1 Round Gravel

Dear Mr. Kosicki:

This is to certify that the NYSDOT Round #1 Gravel proposed for use on the above listed project will be supplied in conformance with the requirements of the NYSDOT and project specifications.

The Round #1 Gravel will be supplied from our NYSDOT & NYSDEC approved Virgin Sand and Gravel Source Located in Chaffee, New York

A Typical mechanical analysis of the proposed material is as follows:

Round #1 Gravel - NYSDOT 703.02- Chaffee Plant

Sieve Size	Percent Passing	Specification
1"	100	100
1/2"	93	90-100
1/4"	11	0-15
#10	1.2	-
#80	0.9	0-10

Sincerely,

Gernatt Asphalt Products, Inc.

Rick Marzullo

Sales Representative





LABORATORY TEST REPORT

CLIENT: New Enterprise Stone & Lime Co. **DATE:** 02/07/2017
PROJECT: Source Pre-Qualification – **REPORT NO.:** 16896L-01-0217
 NYSDEC DER 10

On February 2, 2017, the client delivered a sample of 2" minus run-of-crush stone material for pre-qualification testing. The test results are as follows:

Sample Identification as follows:

Sample No.: Location:
 BL2783 Wehrle Pit

MECHANICAL ANALYSIS (ASTM C136, C117)

Sieve Size	Percent Passing by Weight Sample BL2783	NYSDOT 304-1 Type 2 & Project Specifications
2"	100	100
1"	93.9	-
¾"	85.1	-
½"	65.3	-
¼"	36.9	25-60
No. 4	30.4	-
No. 10	17.7	-
No. 40	8.5	5-40
No. 80	6.4	0-10
No. 200	5.0	0-10

CLASSIFICATION

Classification: 2" Minus Run-of-Crush Limestone

LABORATORY MOISTURE-DENSITY RELATIONSHIP ASTM D1557

		Uncorrected	Corrected
100% Maximum Dry Density	=	134.7 pcf	138.6 pcf
Optimum Moisture Content	=	5.7 %	5.2 %

The above-mentioned material meets NYSDOT Specifications for Subbase Course 304-1 – Type 2 and project specifications.

Feel free to contact this office should you have any questions.

CME Associates, Inc.

MATERIALS TESTING DIVISION

Page 2 of 2

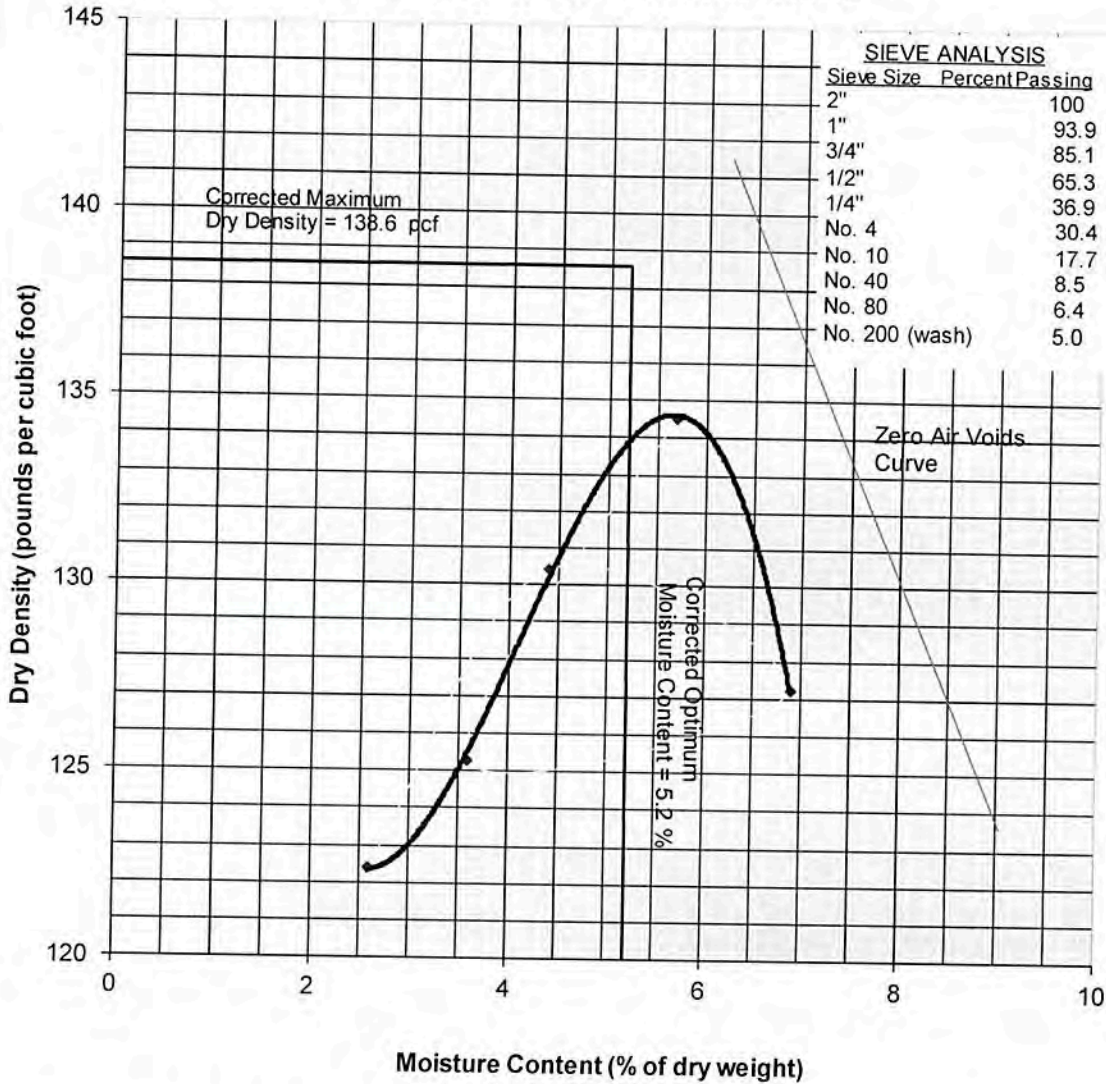
CLIENT: New Enterprise Stone & Lime Co. PROJECT: Source Pre-Qual: NYSDEC DER 10

REPORT NO: 16896L-01-0217 SAMPLE NO: BL2783 DATE DELIVERED: 2/2/2017

SAMPLE LOCATION: Wehrle Pit

SOIL CLASSIFICATION: 2" Minus Run-of-Crush Limestone

MOISTURE DENSITY RELATIONSHIP CURVE



MAXIMUM DRY DENSITY 134.7 pcf OPTIMUM MOISTURE CONTENT 5.7 %
 CORRECTED MAX DRY DENSITY 138.6 pcf CORRECTED OPTIMUM MOISTURE 5.2 %
 TESTED IN GENERAL ACCORDANCE WITH ASTM D1557



Professional Service Industries, Inc.
3784 Commerce Court, Suite 300
North Tonawanda, NY 14120

Phone: (716) 694-8657
Fax: (716) 694-8638

Material Test Report

Report No: MAT:0806678-40-S1

Issue No: 1

Client: MONTANTE CONSTRUCTION LLC CC: COREY STEWART
2760 KENMORE AVENUE DAVE JASKOWSKI
TONAWANDA, NY 14150

These test results apply only to the specific locations and materials noted and may not represent any other locations or elevations. This report may not be reproduced, except in full, without written permission by Professional Service Industries, Inc. If a non-compliance appears on this report, to the extent that the reported non-compliance impacts the project, the resolution is outside the PSI scope of engagement.

Project: GATES CIRCLE DEVELOPMENT PROJ.
BUFFALO, NY

Steven Pump

Approved Signatory: Steven Pump (Branch Manager)
Date of Issue: 12/1/2015

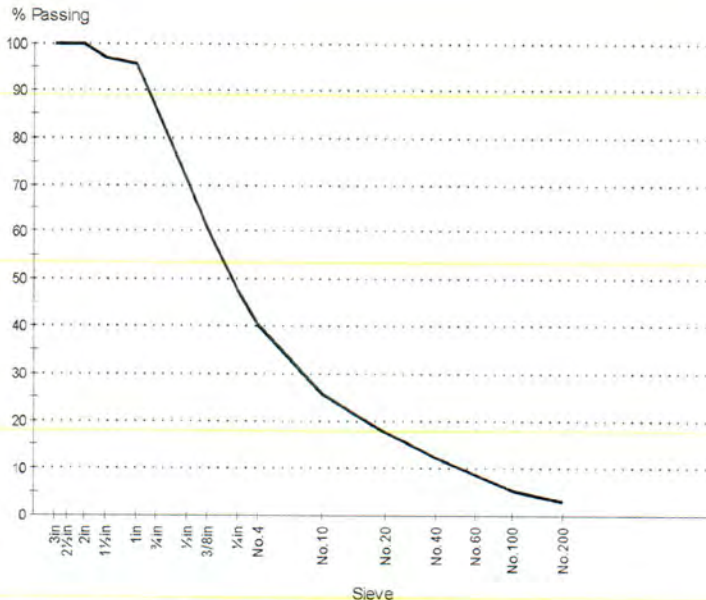
Sample Details

Sample ID: 0806678-40-S1
Client Sample ID:
Date Sampled: 11/24/15
Sampled By: Katherine Crater
Specification: ASTM C136 & ASTM D-1557
Supplier: Produced On-Site
Source: On-Site Backfill Material
Material: Crushed Recycled Building Material
Sampling Method: On-Site Material Sampled with Shovel
General Location: Material Produced On-Site (OSC)
Location: Fill Material for Buildings "B" & "C"

Sample Description:

Crushed Recycled Building Material
(Produced by OSC)

Particle Size Distribution



Grading: ASTM C 136

Drying by: Oven
Date Tested: 11/27/2015

Sieve Size	% Passing	Limits
3in (75.0mm)	100	
2 1/2 in (63.0mm)	100	
2in (50.0mm)	100	
1 1/2 in (37.5mm)	97	
1in (25.0mm)	96	
3/4 in (19.0mm)	86	
1/2 in (12.5mm)	71	
3/8 in (9.5mm)	61	
1/4 in (6.3mm)	48	
No. 4 (4.75mm)	40	
No. 10 (2.0mm)	26	
No. 20 (850µm)	18	
No. 40 (425µm)	12	
No. 60 (250µm)	9	
No. 100 (150µm)	5	
No. 200 (75µm)	2.8	

COBBLES (0.0%)	GRAVEL		SAND			FINES (2.8%)	
	Coarse (13.8%)	Fine (45.7%)	Coarse (14.8%)	Medium (13.2%)	Fine (9.6%)	Silt	Clay

D85: 18.3902 **D60:** 9.2692 **D50:** 6.7719
D30: 2.5738 **D15:** 0.6000 **D10:** 0.3039
Cu: 30.51 **Cc:** 2.35



Professional Service Industries, Inc.
 3784 Commerce Court, Suite 300
 North Tonawanda, NY 14120

Phone: (716) 694-8657
 Fax: (716) 694-8638

Material Test Report

Report No: MAT:0806678-40-S1

Issue No: 1

Client: MONTANTE CONSTRUCTION LLC **CC:** COREY STEWART
 2760 KENMORE AVENUE DAVE JASKOWSKI
 TONAWANDA, NY 14150

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Project: GATES CIRCLE DEVELOPMENT PROJ.
 BUFFALO, NY

Steven Pump

Approved Signatory: Steven Pump (Branch Manager)
 Date of Issue: 12/1/2015

Sample Details

Sample ID: 0806678-40-S1
Client Sample ID:
Date Sampled: 11/24/15
Sampled By: Katherine Crater
Specification: ASTM C136 & ASTM D-1557

Supplier: Produced On-Site
Source: On-Site Backfill Material
Material: Crushed Recycled Building Material
Sampling Method: On-Site Material Sampled with Shovel
General Location: Material Produced On-Site (OSC)
Location: Fill Material for Buildings "B" & "C"

Other Test Results

Description	Method	Result	Limits
Tested By	ASTM C 136	Katherine Crater	
Date Tested		11/27/2015	
Maximum Dry Density (lb/ft ³)	ASTM D 1557	121.1	
Corrected Maximum Dry Density (lb/ft ³)		124.7	
Optimum Moisture Content (%)		10.0	
Corrected Optimum Moisture Content (%)		9.3	
Method		C	
Preparation Method		Dry	
Rammer Type		Manual	
Specific Gravity (Fines)	Estimated	2.46	
Retained Sieve 3/8" (9.5mm) (%)		39	
Retained Sieve 3/4" (19mm) (%)		14	
Specific Gravity (Oversize)	ASTM D 1557	2.46	
Tested By		Katherine Crater	
Date Tested		11/27/2015	

Comments

N/A

From: [Melnik, Eugene W \(DEC\)](#)
To: [Tom H. Forbes](#)
Cc: [Walia, Jaspal \(DEC\)](#); [Staniszewski, Chad \(DEC\)](#); [Nathan T. Munley](#); sams@savarinocompanies.com
Subject: RE: Re-use of crushed concrete from Gates Circle Site at 441 Ohio Street
Date: Monday, March 07, 2016 2:13:13 PM
Attachments: [441 Ohio Street - recycled concrete backfill request.msg](#)

Tom:

The DEC has reviewed the Beneficial Use Determination (BUD) dated March 4, 2015 for use of uncontaminated crushed concrete and brick aggregate fill from the Gates Circle Site (BCP Site C915272). Based upon the information provided in the BUD request, the processed material is acceptable for use as fill below the required final cover system at the 441 Ohio Street BCP site (BCP Site C915285). Based upon the sieve analysis of the processed recycled aggregate, and conformance with maximum fraction of particles passing an 80 sieve, chemical sampling and analysis is not required.

The above acceptance does not preclude any local building code or project requirements. Use of this material as fill should conform to project specifications and any requirements dictated by City of Buffalo building code/ordinances for use of imported fill.

A formal letter regarding this determination will be forthcoming.

If you have questions regarding the above, please contact me.

Sincerely
Gene

Eugene Melnyk, PE
Remediation Engineer, [Division of Environmental Remediation](#)

New York State Department of Environmental Conservation
270 Michigan Avenue, Buffalo, NY 14203
P: 716-851-7220 | F: 716-851-7226 | eugene.melnik@dec.ny.gov

www.dec.ny.gov |  | 

From: Tom H. Forbes [<mailto:TForbes@benchmarkturnkey.com>]
Sent: Monday, March 07, 2016 1:08 PM
To: [Walia, Jaspal \(DEC\)](#); [Melnik, Eugene W \(DEC\)](#)
Subject: Re-use of crushed concrete from Gates Circle Site

Gene and Jaspal,

Pending a formal approval, would you be able to send an email acknowledging that re-use of the

crushed concrete stockpiled at the Gates Circle site as subgrade fill at the 441 Ohio Street Site will be acceptable to the Department? TM Montante has requested something in writing before they will allow the work to proceed.

Thanks,
Tom

Thomas H. Forbes, P.E.
Principal Engineer
tforbes@benchmarkturnkey.com

Benchmark Environmental Engineering & Science, PLLC
TurnKey Environmental Restoration, LLC
www.benchmarkturnkey.com
2558 Hamburg Turnpike, Suite 300, Buffalo, NY 14218
Phone: (716) 856-0599, Facsimile: (716) 856-0583

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 9
270 Michigan Avenue, Buffalo, NY 14203-2915
P: (716) 851-7220 | F: (716) 851-7226
www.dec.ny.gov

July 2, 2015

Mr. Matt Montante
Gates Circle Holdings, LLC
2760 Kenmore Avenue - Suite 100
Buffalo, New York 14150

Dear Mr. Montante:


Beneficial Use Determination - Recycled Concrete
& Brick
3 Gates Circle Site
Site No.: C915272

The Department has reviewed the beneficial use determination (BUD) request dated May 26, 2015 to use 25,000 cubic yards of uncontaminated recycled concrete and brick from on-site buildings at the 3 Gates Circle Site. Based on the information provided, the request is hereby approved for Building B and Building E, Power House. The approval of use of uncontaminated recycled concrete and brick from other on-site buildings will be issued only upon receipt of asbestos abatement clearance letter or testing data showing no asbestos in the building.

It is our understanding that during demolition and crushing activities, all the necessary permits will be obtained. During crushing operations, the applicant must comply with the NYSDEC Division of Air requirements.

Should there be any questions related to this letter, please call me at (716) 851-7220.

Sincerely,


Jaspal S. Walia, P.E.
Project Manager

JSW:sz

cc: Mr. Chad Staniszewski, NYSDEC
Mr. Alan Zylinski, NYSDEC
Ms. Renata Ockerby, NYS Department of Health
Mr. Christopher Boron, Benchmark



Department of
Environmental
Conservation

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 9
270 Michigan Avenue, Buffalo, NY 14203-2915
P: (716) 851-7220 | F: (716) 851-7226
www.dec.ny.gov

November 10, 2015

Mr. Matt Montante
Gates Circle Holdings, LLC
2760 Kenmore Avenue – Suite 100
Buffalo, NY 14150

Dear Mr. Montante:

**Beneficial Use Determination – Recycled
Concrete & Brick.
3 Gates Circle Site
Site No.: C915272**

The Department has reviewed the beneficial use determination (BUD) request dated May 26, 2015 to use uncontaminated recycled concrete and brick from on-site buildings at the 3 Gates Circle Site. Based on the information provided in BUD request and Asbestos Abatement Clearance letter, dated October 24, 2015, the request is hereby approved for East Building & Kitchen of C Complex. This recycled material may only be used below the required final cover system for the site.

It is our understanding that all necessary permits will be obtained for on-site crushing activities. During crushing operations, the applicant must comply with the NYSDEC Division of Air requirements.

Should there be any questions related to this letter, please call me at (716) 851-7220.

Sincerely,

Jaspal Singh Walia
Jaspal S. Walia, P.E.
Project Manager

JSW:tm

ec: Mr. Chad Staniszewski, NYSDEC
Mr. Alan Zylinski, NYSDEC
Ms. Renata Ockerby, NYSDOH
Mr. Christopher Boron, Benchmark



May 20, 2015

Mr. Jaspal Walia, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 9
270 Michigan Avenue
Buffalo, New York 14203-2999

Re: **Beneficial Use Determination
3 Gates Circle Site (C915272)**

Dear Mr. Walia:

Benchmark Environmental Engineering & Science, PLLC (Benchmark), on behalf of Gates Circle Holdings, LLC, (GCH) is requesting a beneficial use determination (BUD) from New York State Department of Environmental Conservation (NYSDEC) for reuse of concrete and brick from the on-site buildings to be demolished. GCH would like to process and reuse the concrete and brick from the existing onsite buildings, as they are demolished, as a source of subgrade backfill material at the 3 Gates Circle Brownfield Cleanup Program (BCP Site C915272). The reuse of this on-site material would fall under a pre-determined BUD listed in 6 NYCRR Part 360-1.15(6), specifically, number 11 which states “recognizable, uncontaminated concrete and concrete products, asphalt pavement, brick, glass, soil and rock placed in commerce for service as a substitute for conventional aggregate”.

GCH is demolishing the on-site buildings in stages as there are 13 interconnected buildings on the Site. The Power Plant (also known as Building E) located in the southeastern portion of the Site has been partially demolished and demolition has begun on the Medical Service Building (also known as Building B) located in the central portion of the Site. Attached to this letter are the two (2) demolition permits issued by the City of Buffalo for those two (2) buildings. Also attached are the Asbestos Abatement Clearance Reports for the Power Plant and Medical Services Building.

Because the demolition will be done in phases, the concrete and brick proposed for reuse will also generated in phases. GCH’s contractor Ontario Specialty Contracting (OSC) will be staging the concrete and brick on-site for processing. Once a sufficient volume of material has been staged, the processing equipment will be brought on-site and processed. GCH will provide NYSDEC with the additional City of Buffalo demolition permits and the Asbestos Abatement Clearance Reports as they are obtained. Concrete and brick generated from future buildings to be demolished will not be processed prior to providing the permits and reports to NYSDEC.

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www.benchmarkturnkey.com

2558 Hamburg Turnpike, Suite 300 | Buffalo, NY 14218
phone: (716) 856-0599 | fax: (716) 856-0583

The BUD request is based on the following:

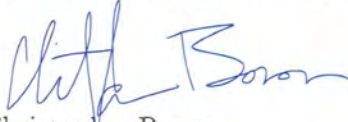
- The reuse of this on-site material would fall under a pre-determined BUD listed in 6 NYCRR Part 360-1.15(6), as mentioned above.
- There is a substantial volume of basement area associated with the 13 interconnect Site buildings that will require backfill after the buildings are demolished. GCH will be demolishing the on-site buildings and would like to use the concrete and exterior brick as a source of backfill. It is estimated that approximately 25,000 cubic yards of concrete and brick are present in the buildings for reuse. The reuse of these on-site materials will be in a beneficial manner by:
 - precluding additional import of the same volume of off-site backfill materials;
 - reducing costs associated with removal and disposal of the material at another location;
 - significantly reducing greenhouse gas (GHG) emissions for the BCP Site by utilizing this material for backfill, in accordance with DER-31 Green Remediation policy.
- GCH is currently implementing the site remedies for the BCP site as outlined in the Interim Remedial Measures Work Plan dated January 2015. As part of the remedies,
 - the No. 6 fuel oil and impacted soil/fill located in the vicinity of the Power Plant will be removed and disposed of off-site;
 - four (4) areas identified during the preparation of the RI/AAR will require excavation and off-site disposal to achieve a Track 4 Restricted Residential Soil Cleanup. Three (3) areas were impacted with SVOCs and one (1) area was impacted with mercury; and
 - the final remedy also include placement of a cover system over site, and environmental easements with associated Site Management Plans (SMPs).
- The concrete and brick proposed for reuse do not contain painted surfaces. The interiors of the buildings contained drywall which has been removed from the buildings approved for demolition. After the buildings are demolished, the various materials present (steel, concrete, brick, etc.) will be segregated. The concrete and brick proposed for reuse will be staged and processed (with NYSDEC approval) on-site.
- Concrete and brick that contains signs of gross contamination as defined by Part 375-1.2(u) will not be processed for reuse and will be staged for proper off-site disposal.

SCHEDULE

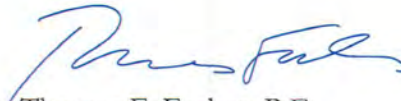
The demolition of the Medical Services building is currently underway. GCH would appreciate and decision from NYSDEC regarding the BUD by May 29, 2015.

Please contact us if you have any questions or require additional information.

Sincerely,
Benchmark Environmental Engineering & Science, PLLC



Christopher Boron
Sr. Project Manager



Thomas F. Forbes, P.E.
Principal Engineer

Attachments

cc: C. Stewart (TMMontante)
R. Ockerby (NYSDOH)

File: 0309-014-001



PERMIT
Under the Environmental Conservation Law (ECL)

Permittee and Facility Information

Permit Issued To:
GERNATT ASPHALT PRODUCTS INC
13870 TAYLOR HOLLOW RD
COLLINS, NY 14034
(716) 532-3371

Facility:
GERNATT GABEL/THOMAS S & G MINE
RTE 16 & GENESSEE ROAD
SARDINIA, NY 14134

Facility Location: in SARDINIA in ERIE COUNTY

Facility Principal Reference Point: NYTM-E: 213.8 NYTM-N: 4717.7
Latitude: 43°33'31.2" Longitude: 78°29'10.5"

Project Location: North of Genesee Road, South of Allen Road, West of NYS Route 16

Authorized Activity: The mining of sand and gravel, with a material processing plant including crusher, screen, conveyors and a closed loop water circulation system, on 350 acres of land, with excavation below the ground water table on up to 204 of those acres. All operations are to be conducted in accordance with approved plans and the conditions of this permit.

For state-wide consistency, this Mined Land Reclamation Permit is renewed in a new permit format, and contains seven standardized Mined Land Reclamation Permit Conditions.

Permit Authorizations

Mined Land Reclamation - Under Article 23, Title 27

Permit ID 9-1462-00019/00001

(Mined Land ID 90502)

Renewal

Effective Date: 7/13/2010

Expiration Date: 6/7/2015

NYSDEC Approval

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, and all conditions included as part of this permit.

Permit Administrator: CHARLES D CRANSTON, Deputy Regional Permit Administrator
Address: NYSDEC REGION 9 ALLEGANY SUB-OFFICE
182 EAST UNION - STE 3
ALLEGANY, NY 14706 -1328

Authorized Signature: Charles D. Cranston Date 7/13/2010



Distribution List

NYSDEC Reg. 9 Division of Mineral Resources
Town of Sardinia

Permit Components

MINED LAND RECLAMATION PERMIT CONDITIONS

GENERAL CONDITIONS, APPLY TO ALL AUTHORIZED PERMITS

NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

MINED LAND RECLAMATION PERMIT CONDITIONS

1. Conformance With Plans All activities authorized by this permit must be in strict conformance with the approved plans submitted by the applicant or applicant's agent as part of the permit application. Such plans were approved by the Department on June 7, 1995 and consist of the following items:

- a. "Gabel/Thomas Mined Land Use Plan," Appendix XIII of the Draft Environmental Impact Statement by Dunn Corporation and accepted by the Department on May 12 1993;
- b. Chapter 5 "Mitigation Measures to Minimize Environmental Impacts," of the Draft Environmental Impact Statement prepared by Dunn Corporation and accepted by the Department on May 12, 1993;
- c. "Mining Plan" and "Reclamation Plan" (graphics) by Spectra Environmental Group, Inc., dated December 3, 1993 (2 sheets);
- d. Figure No. 2 (page 27) of the Draft Environmental Impact Statement by Dunn Corporation and accepted by the Department on May 12, 1993. This Figure shall prevail over conflicting parts of Section 3.2.2. of the Gable/Thomas Mined Land Use Plan (Special Condition 1.a. above).

2. Conditions Prevail Over Plans If any condition of this permit conflicts with the approved plans, the permit condition shall prevail over the plans.

3. Final Setback Distances From The Property Line Final setback distances from the property line to the edge of below water excavation north of the mine entrance road along the east and north mine boundaries (generally between the mine property and Route 16, the Hamlet of Chaffee, and Allen Road) shall not be less than 300 feet in order to provide opportunity for potential future development of the lakeshore, and to allow for unpredictable shoreline impacts (i.e. erosion and slumping). The reclaimed surface elevation of the lower bench shall not be less than 5.0 feet above the mean lake surface



MEMORANDUM

TO:	James Panepinto, Gary Catlin (Pinto CS)
FROM:	Dharma Iyer (IEG)
DATE:	April 15, 2016
RE:	Inducon Park – Offsite Topsoil Source Sampling & Analysis

IEG was retained by Pinto Construction to sample an off-site topsoil source at a property on Inducon Dr., Sanborn, NY (see location and aerial photo on Figure 1) that is about to be redeveloped. The site is currently an open field. The sampling was performed to verify that the topsoil meets NYSDEC's Part 375/DER-10 and NYSDOT guidelines.

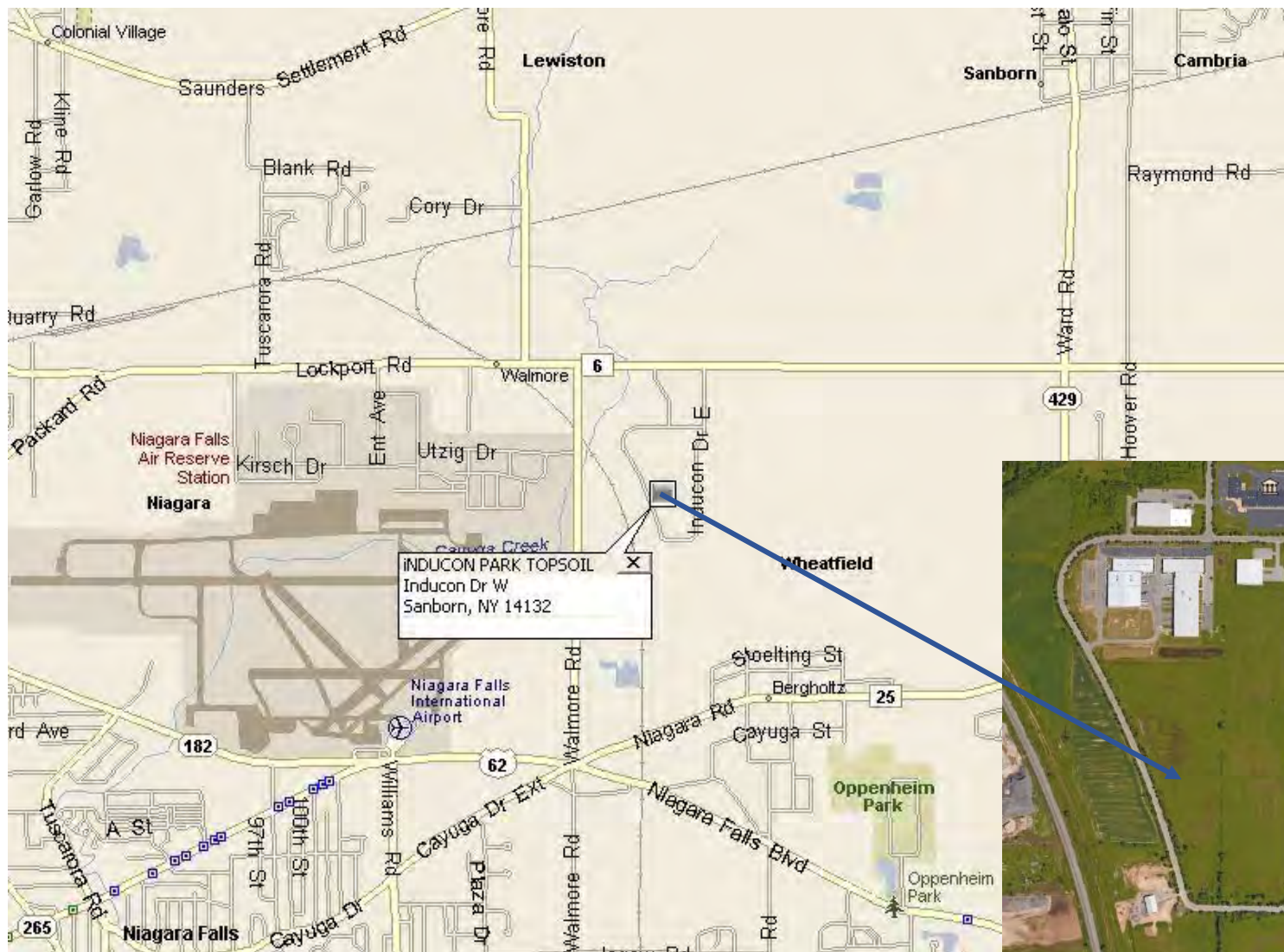
SOIL SAMPLING: IEG (D. Iyer, R. Allen) met Pinto Construction (G. Caitlin) on April 5, 2016 at the property on Inducon Dr., and discussed the topsoil sampling plan which took into consideration the size of the property. Based on an estimated volume of 2,000 cy of available topsoil at this off-site source, the sampling plan included a total of nine (9) grab samples for VOCs, and (3) composite samples for the remaining DER-10 parameters (TAL metals (incl. mercury and hexavalent chromium), cyanide, TCL SVOCs, pesticides, PCBs and herbicides). Each composite sample was made up of four (4) grab samples as indicated on the attached Figure 2 showing sample locations. In addition, a composite 5-gallon bucket of topsoil was included for NYSDOT parameters (gradation sample, total organic content and pH).

The topsoil samples for DER-10 analysis were packed in a cooler and delivered to Test America (Amherst, NY) the same day. The composite bucket sample was dropped off at SJB Services (Hamburg, NY) the same day for NYSDOT parameters. Attached are Test America's lab reports for pollutant parameters for the samples. The Test America and SJB lab reports are attached.

ANALYTICAL RESULTS: The attached Table 1 summarizes analytical results for the grab and composite topsoil samples, along with NYSDEC's DER-10 SCOs (for Unrestricted, Restricted Residential and Restricted Commercial Use) for comparison. All detected constituents were below the DER-10 Restricted Residential Use criteria. No volatile organics (VOCs), semivolatile organics (SVOCs), PCBs and herbicides were detected in the samples. Two pesticides were detected at trace levels but well below Unrestricted Use SCOs. All detected heavy metals and cyanide were below Unrestricted Use SCOs except zinc which was marginally above Unrestricted Use SCOs but well below Restricted Residential.

The composite bucket sample had a pH of 7.1 s.u., and organic content of 5.3%, both within acceptable NYSDOT's allowable range. The gradation analysis showed the topsoil to have 90% finer than #40 sieve size, and 99.5% smaller than 0.25" in size.

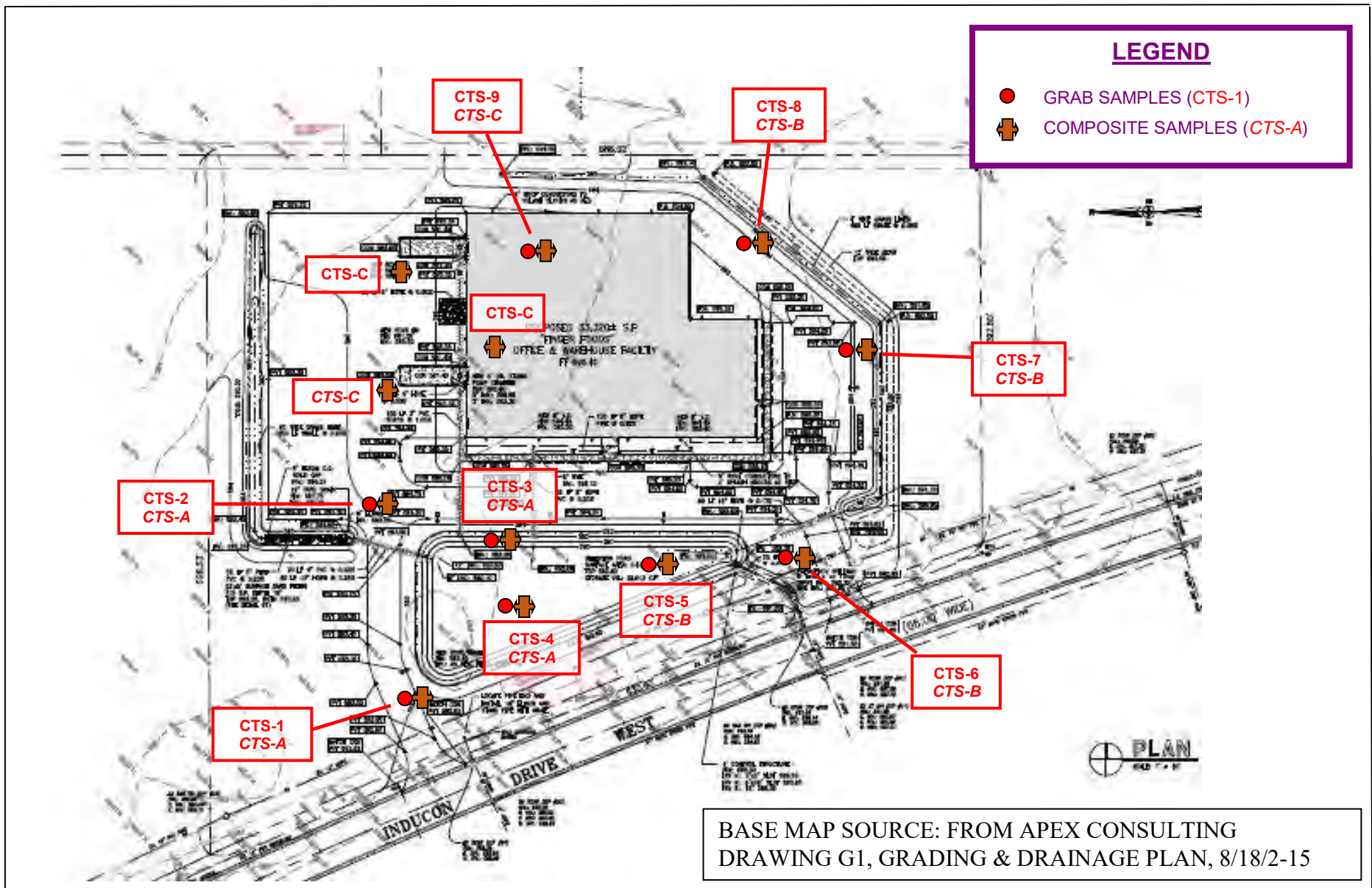




**INDUCON DRIVE WEST, SANBORN, NY
SITE LOCATION MAP**

FIGURE 1

IEG



**INDUCON DRIVE WEST, SANBORN, NY
SOIL SAMPLE LOCATIONS**

FIGURE 2

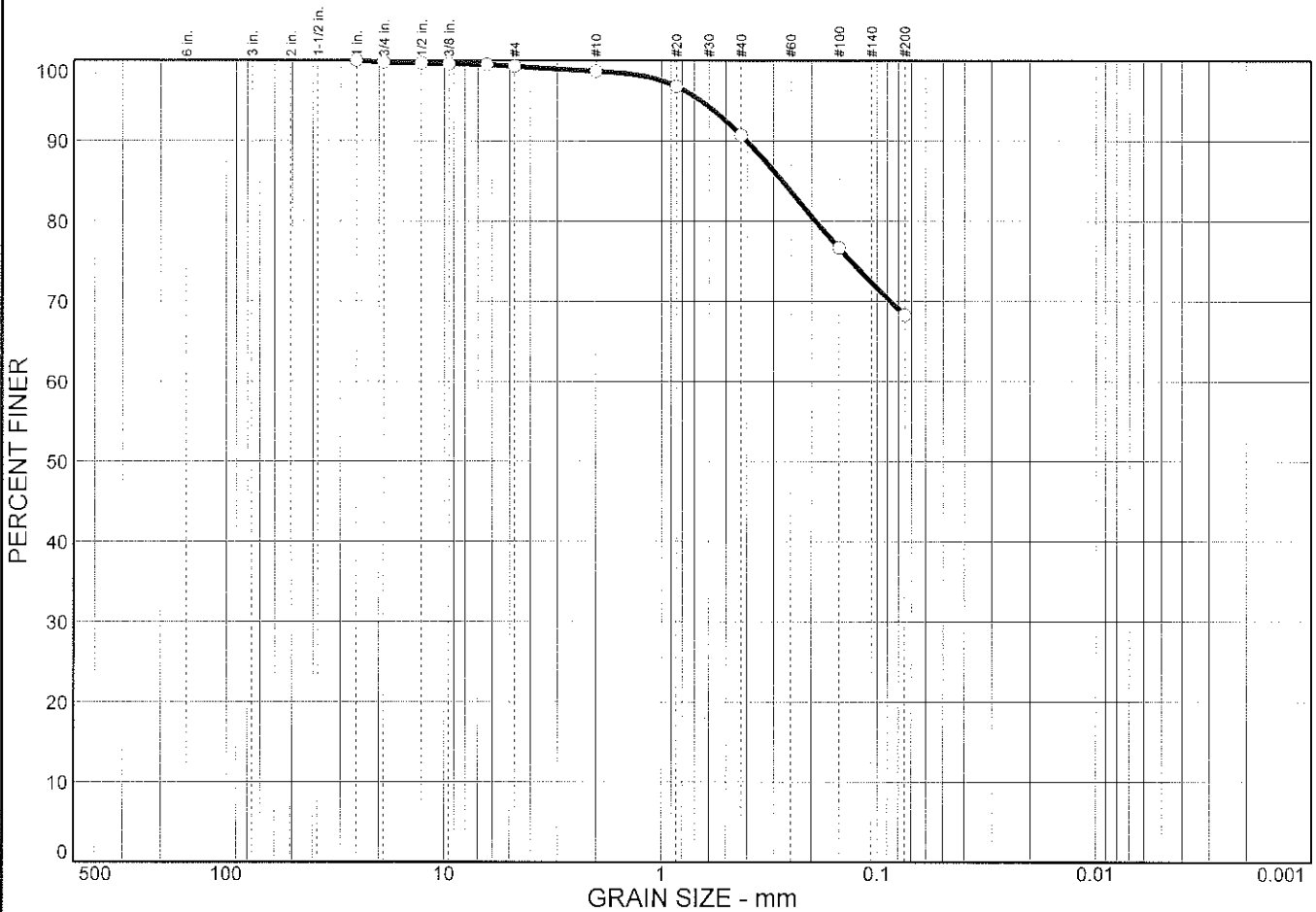
IEG

**TABLE 1
INDUCON PARK - OFF-SITE TOPSOIL SOURCE SAMPLING**

SAMPLE TYPE/ ID	DER-10 SCOs			COMPOSITE SAMPLES (EXCL. VOCs)			GRAB SAMPLES (VOCs ONLY)								
	UNRESTRICTED	RESTRICTED RESIDENTIAL	RESTRICTED COMMERCIAL	CTS-A	CTS-B	CTS-C	CTS-1	CTS-2	CTS-3	CTS-4	CTS-5	CTS-6	CTS-7	CTS-8	CTS-9
LAB BATCH NUMBER				161307											
Sample Date				4/5/2016											
Percent Solids (%)				71.6	73.3	73.2	70.3	72.8	66.2	76.7	76.0	74.7	75.7	74.8	71.8
pH (s.u.)				NA											
TOTAL ORGANIC CARBON (%)				2.85	2.26	3.18	NA								
VOLATILE ORGANICS (VOCs, ug/Kg)				NA			ND	ND	ND	ND	ND	ND	ND	ND	ND
SEMIVOLATILE ORGANICS (SVOCs, ug/Kg)				ND	ND	ND	NA								
PESTICIDES (ug/Kg)															
Endrin	14	60	60	ND	6.04 P	ND	NA								
Heptachlor Epoxide	42	380	380	ND	2.49 J	ND									
HERBICIDES (ug/Kg)				ND	ND	ND	NA								
PCBs (ug/Kg)				ND	ND	ND	NA								
METALS (mg/Kg)															
Arsenic	13	16	16	4.88	5.83	4.35									
Barium	350	400	400	114	103	98.4									
Beryllium	7.2	47	47	0.858	0.807	0.815									
Cadmium	2.5	4.3	7.5	ND	ND	ND									
Chromium (Total)	30	180	1,500	25.7	22.8	23.7									
Chromium (Hexavalent)	1	19	19	ND	ND	ND									
Copper	50	270	270	14.7	11.7	12.5	NA								
Lead	63	400	450	20.2	21.4	18.7									
Manganese	1,600	2,000	2,000	462	1330	584									
Nickel	30	140	130	22	18.9	19.3									
Selenium	3.9	36	4	2.19	ND	ND									
Silver	2	8.3	8.3	ND	ND	ND									
Zinc	109	2,480	2,480	195	75.2	85									
Mercury	0.18	0.73	0.73	0.0603	0.0531	0.0615									
Total Cyanide (mg/Kg)	27	27	27	0.395 J	0.355 J	0.258 J	NA								

Notes: 1. "NA" or "-" = not analyzed; "ND" = Not Detected; "J" = Below MQL; "P" = see lab note
2. Only detected volatile and semivolatile compounds are listed; all metals analyzed are listed

Particle Size Distribution Report



% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.7	31.0	68.3	68.3

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 in.	100.0		
.75 in.	99.8		
.5 in.	99.7		
.375 in.	99.6		
.25 in.	99.5		
#4	99.3		
#10	98.7		
#20	96.8		
#40	90.7		
#100	76.7		
#200	68.3		

Soil Description

TOPSOIL MATERIAL
 ORGANIC CONTENT = 5.3 %
 pH READING = 7.1

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 0.274 D₆₀= D₅₀=
 D₃₀= D₁₅= D₁₀=
 C_u= C_c=

Classification

USCS= AASHTO=

Remarks

LTR-12
 SAMPLED BY: CLIENT
 DATE RECEIVED: 4-4-2016

* (no specification provided)

Sample No.: 16-285 Source of Sample: INDICON PARK PROJECT Date: 4-15-16
 Location: INDICON PARK PROJECT Elev./Depth:

<h2 style="margin: 0;">SJB SERVICES, INC.</h2>	Client: PINTO CONSTRUCTION Project: MATERIAL TESTING Project No: BT-08-103 Plate
------------------------------------------------	-------------------------------------------------------------------------------------------------------------



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For
Iyer Environmental Group

For Lab Project ID

161307

Referencing

Pinto Lockport Topsoil

Prepared

Wednesday, April 13, 2016

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below:

Portions of the enclosed report reflects analysis that has been subcontracted and are presented in their original form.

A handwritten signature in black ink, appearing to be "D. Smith", is written over a horizontal line.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Wednesday, April 13, 2016

Page 1 of 101



Lab Project ID: 161307

Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-1

Lab Sample ID: 161307-01

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 5.58	ug/Kg		4/8/2016 15:18
1,1,2,2-Tetrachloroethane	< 5.58	ug/Kg		4/8/2016 15:18
1,1,2-Trichloroethane	< 5.58	ug/Kg		4/8/2016 15:18
1,1-Dichloroethane	< 5.58	ug/Kg		4/8/2016 15:18
1,1-Dichloroethene	< 5.58	ug/Kg		4/8/2016 15:18
1,2,3-Trichlorobenzene	< 13.9	ug/Kg		4/8/2016 15:18
1,2,4-Trichlorobenzene	< 13.9	ug/Kg		4/8/2016 15:18
1,2,4-Trimethylbenzene	< 5.58	ug/Kg		4/8/2016 15:18
1,2-Dibromo-3-Chloropropane	< 27.9	ug/Kg		4/8/2016 15:18
1,2-Dibromoethane	< 5.58	ug/Kg		4/8/2016 15:18
1,2-Dichlorobenzene	< 5.58	ug/Kg		4/8/2016 15:18
1,2-Dichloroethane	< 5.58	ug/Kg		4/8/2016 15:18
1,2-Dichloropropane	< 5.58	ug/Kg		4/8/2016 15:18
1,3,5-Trimethylbenzene	< 5.58	ug/Kg		4/8/2016 15:18
1,3-Dichlorobenzene	< 5.58	ug/Kg		4/8/2016 15:18
1,4-Dichlorobenzene	< 5.58	ug/Kg		4/8/2016 15:18
1,4-dioxane	< 55.8	ug/Kg		4/8/2016 15:18
2-Butanone	< 27.9	ug/Kg		4/8/2016 15:18
2-Hexanone	< 13.9	ug/Kg		4/8/2016 15:18
4-Methyl-2-pentanone	< 13.9	ug/Kg		4/8/2016 15:18
Acetone	< 27.9	ug/Kg		4/8/2016 15:18
Benzene	< 5.58	ug/Kg		4/8/2016 15:18
Bromochloromethane	< 13.9	ug/Kg		4/8/2016 15:18
Bromodichloromethane	< 5.58	ug/Kg		4/8/2016 15:18
Bromoform	< 13.9	ug/Kg		4/8/2016 15:18
Bromomethane	< 5.58	ug/Kg		4/8/2016 15:18
Carbon disulfide	< 5.58	ug/Kg		4/8/2016 15:18
Carbon Tetrachloride	< 5.58	ug/Kg		4/8/2016 15:18
Chlorobenzene	< 5.58	ug/Kg		4/8/2016 15:18

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Lab Project ID: 161307

Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier:	CTS-1			
Lab Sample ID:	161307-01		Date Sampled:	4/5/2016
Matrix:	Soil		Date Received:	4/6/2016
Chloroethane	< 5.58	ug/Kg	4/8/2016	15:18
Chloroform	< 5.58	ug/Kg	4/8/2016	15:18
Chloromethane	< 5.58	ug/Kg	4/8/2016	15:18
cis-1,2-Dichloroethene	< 5.58	ug/Kg	4/8/2016	15:18
cis-1,3-Dichloropropene	< 5.58	ug/Kg	4/8/2016	15:18
Cyclohexane	< 27.9	ug/Kg	4/8/2016	15:18
Dibromochloromethane	< 5.58	ug/Kg	4/8/2016	15:18
Dichlorodifluoromethane	< 5.58	ug/Kg	4/8/2016	15:18
Ethylbenzene	< 5.58	ug/Kg	4/8/2016	15:18
Freon 113	< 5.58	ug/Kg	4/8/2016	15:18
Isopropylbenzene	< 5.58	ug/Kg	4/8/2016	15:18
m,p-Xylene	< 5.58	ug/Kg	4/8/2016	15:18
Methyl acetate	< 5.58	ug/Kg	4/8/2016	15:18
Methyl tert-butyl Ether	< 5.58	ug/Kg	4/8/2016	15:18
Methylcyclohexane	< 5.58	ug/Kg	4/8/2016	15:18
Methylene chloride	< 13.9	ug/Kg	4/8/2016	15:18
Naphthalene	< 13.9	ug/Kg	4/8/2016	15:18
n-Butylbenzene	< 5.58	ug/Kg	4/8/2016	15:18
n-Propylbenzene	< 5.58	ug/Kg	4/8/2016	15:18
o-Xylene	< 5.58	ug/Kg	4/8/2016	15:18
p-Isopropyltoluene	< 5.58	ug/Kg	4/8/2016	15:18
sec-Butylbenzene	< 5.58	ug/Kg	4/8/2016	15:18
Styrene	< 13.9	ug/Kg	4/8/2016	15:18
tert-Butylbenzene	< 5.58	ug/Kg	4/8/2016	15:18
Tetrachloroethene	< 5.58	ug/Kg	4/8/2016	15:18
Toluene	< 5.58	ug/Kg	4/8/2016	15:18
trans-1,2-Dichloroethene	< 5.58	ug/Kg	4/8/2016	15:18
trans-1,3-Dichloropropene	< 5.58	ug/Kg	4/8/2016	15:18
Trichloroethene	< 5.58	ug/Kg	4/8/2016	15:18
Trichlorofluoromethane	< 5.58	ug/Kg	4/8/2016	15:18
Vinyl chloride	< 5.58	ug/Kg	4/8/2016	15:18

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Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-1

Lab Sample ID: 161307-01

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	106	85.4 - 122		4/8/2016	15:18
4-Bromofluorobenzene	95.8	81.1 - 115		4/8/2016	15:18
Pentafluorobenzene	103	90.7 - 109		4/8/2016	15:18
Toluene-D8	96.2	88.5 - 110		4/8/2016	15:18

Method Reference(s): EPA 8260C
EPA 5035

Data File: x31558.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-2

Lab Sample ID: 161307-02

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 5.41	ug/Kg		4/8/2016 15:42
1,1,2,2-Tetrachloroethane	< 5.41	ug/Kg		4/8/2016 15:42
1,1,2-Trichloroethane	< 5.41	ug/Kg		4/8/2016 15:42
1,1-Dichloroethane	< 5.41	ug/Kg		4/8/2016 15:42
1,1-Dichloroethene	< 5.41	ug/Kg		4/8/2016 15:42
1,2,3-Trichlorobenzene	< 13.5	ug/Kg		4/8/2016 15:42
1,2,4-Trichlorobenzene	< 13.5	ug/Kg		4/8/2016 15:42
1,2,4-Trimethylbenzene	< 5.41	ug/Kg		4/8/2016 15:42
1,2-Dibromo-3-Chloropropane	< 27.0	ug/Kg		4/8/2016 15:42
1,2-Dibromoethane	< 5.41	ug/Kg		4/8/2016 15:42
1,2-Dichlorobenzene	< 5.41	ug/Kg		4/8/2016 15:42
1,2-Dichloroethane	< 5.41	ug/Kg		4/8/2016 15:42
1,2-Dichloropropane	< 5.41	ug/Kg		4/8/2016 15:42
1,3,5-Trimethylbenzene	< 5.41	ug/Kg		4/8/2016 15:42
1,3-Dichlorobenzene	< 5.41	ug/Kg		4/8/2016 15:42
1,4-Dichlorobenzene	< 5.41	ug/Kg		4/8/2016 15:42
1,4-dioxane	< 54.1	ug/Kg		4/8/2016 15:42
2-Butanone	< 27.0	ug/Kg		4/8/2016 15:42
2-Hexanone	< 13.5	ug/Kg		4/8/2016 15:42
4-Methyl-2-pentanone	< 13.5	ug/Kg		4/8/2016 15:42
Acetone	< 27.0	ug/Kg		4/8/2016 15:42
Benzene	< 5.41	ug/Kg		4/8/2016 15:42
Bromochloromethane	< 13.5	ug/Kg		4/8/2016 15:42
Bromodichloromethane	< 5.41	ug/Kg		4/8/2016 15:42
Bromoform	< 13.5	ug/Kg		4/8/2016 15:42
Bromomethane	< 5.41	ug/Kg		4/8/2016 15:42
Carbon disulfide	< 5.41	ug/Kg		4/8/2016 15:42
Carbon Tetrachloride	< 5.41	ug/Kg		4/8/2016 15:42
Chlorobenzene	< 5.41	ug/Kg		4/8/2016 15:42

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Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier:	CTS-2		
Lab Sample ID:	161307-02	Date Sampled:	4/5/2016
Matrix:	Soil	Date Received:	4/6/2016

Chloroethane	< 5.41	ug/Kg	4/8/2016 15:42
Chloroform	< 5.41	ug/Kg	4/8/2016 15:42
Chloromethane	< 5.41	ug/Kg	4/8/2016 15:42
cis-1,2-Dichloroethene	< 5.41	ug/Kg	4/8/2016 15:42
cis-1,3-Dichloropropene	< 5.41	ug/Kg	4/8/2016 15:42
Cyclohexane	< 27.0	ug/Kg	4/8/2016 15:42
Dibromochloromethane	< 5.41	ug/Kg	4/8/2016 15:42
Dichlorodifluoromethane	< 5.41	ug/Kg	4/8/2016 15:42
Ethylbenzene	< 5.41	ug/Kg	4/8/2016 15:42
Freon 113	< 5.41	ug/Kg	4/8/2016 15:42
Isopropylbenzene	< 5.41	ug/Kg	4/8/2016 15:42
m,p-Xylene	< 5.41	ug/Kg	4/8/2016 15:42
Methyl acetate	< 5.41	ug/Kg	4/8/2016 15:42
Methyl tert-butyl Ether	< 5.41	ug/Kg	4/8/2016 15:42
Methylcyclohexane	< 5.41	ug/Kg	4/8/2016 15:42
Methylene chloride	< 13.5	ug/Kg	4/8/2016 15:42
Naphthalene	< 13.5	ug/Kg	4/8/2016 15:42
n-Butylbenzene	< 5.41	ug/Kg	4/8/2016 15:42
n-Propylbenzene	< 5.41	ug/Kg	4/8/2016 15:42
o-Xylene	< 5.41	ug/Kg	4/8/2016 15:42
p-Isopropyltoluene	< 5.41	ug/Kg	4/8/2016 15:42
sec-Butylbenzene	< 5.41	ug/Kg	4/8/2016 15:42
Styrene	< 13.5	ug/Kg	4/8/2016 15:42
tert-Butylbenzene	< 5.41	ug/Kg	4/8/2016 15:42
Tetrachloroethene	< 5.41	ug/Kg	4/8/2016 15:42
Toluene	< 5.41	ug/Kg	4/8/2016 15:42
trans-1,2-Dichloroethene	< 5.41	ug/Kg	4/8/2016 15:42
trans-1,3-Dichloropropene	< 5.41	ug/Kg	4/8/2016 15:42
Trichloroethene	< 5.41	ug/Kg	4/8/2016 15:42
Trichlorofluoromethane	< 5.41	ug/Kg	4/8/2016 15:42
Vinyl chloride	< 5.41	ug/Kg	4/8/2016 15:42

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Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-2

Lab Sample ID: 161307-02

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	106	85.4 - 122		4/8/2016	15:42
4-Bromofluorobenzene	94.0	81.1 - 115		4/8/2016	15:42
Pentafluorobenzene	101	90.7 - 109		4/8/2016	15:42
Toluene-D8	95.4	88.5 - 110		4/8/2016	15:42

Method Reference(s): EPA 8260C
EPA 5035

Data File: x31559.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-3

Lab Sample ID: 161307-03

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 5.64	ug/Kg		4/8/2016 16:06
1,1,2,2-Tetrachloroethane	< 5.64	ug/Kg		4/8/2016 16:06
1,1,2-Trichloroethane	< 5.64	ug/Kg		4/8/2016 16:06
1,1-Dichloroethane	< 5.64	ug/Kg		4/8/2016 16:06
1,1-Dichloroethene	< 5.64	ug/Kg		4/8/2016 16:06
1,2,3-Trichlorobenzene	< 14.1	ug/Kg		4/8/2016 16:06
1,2,4-Trichlorobenzene	< 14.1	ug/Kg		4/8/2016 16:06
1,2,4-Trimethylbenzene	< 5.64	ug/Kg		4/8/2016 16:06
1,2-Dibromo-3-Chloropropane	< 28.2	ug/Kg		4/8/2016 16:06
1,2-Dibromoethane	< 5.64	ug/Kg		4/8/2016 16:06
1,2-Dichlorobenzene	< 5.64	ug/Kg		4/8/2016 16:06
1,2-Dichloroethane	< 5.64	ug/Kg		4/8/2016 16:06
1,2-Dichloropropane	< 5.64	ug/Kg		4/8/2016 16:06
1,3,5-Trimethylbenzene	< 5.64	ug/Kg		4/8/2016 16:06
1,3-Dichlorobenzene	< 5.64	ug/Kg		4/8/2016 16:06
1,4-Dichlorobenzene	< 5.64	ug/Kg		4/8/2016 16:06
1,4-dioxane	< 56.4	ug/Kg		4/8/2016 16:06
2-Butanone	< 28.2	ug/Kg		4/8/2016 16:06
2-Hexanone	< 14.1	ug/Kg		4/8/2016 16:06
4-Methyl-2-pentanone	< 14.1	ug/Kg		4/8/2016 16:06
Acetone	< 28.2	ug/Kg		4/8/2016 16:06
Benzene	< 5.64	ug/Kg		4/8/2016 16:06
Bromochloromethane	< 14.1	ug/Kg		4/8/2016 16:06
Bromodichloromethane	< 5.64	ug/Kg		4/8/2016 16:06
Bromoform	< 14.1	ug/Kg		4/8/2016 16:06
Bromomethane	< 5.64	ug/Kg		4/8/2016 16:06
Carbon disulfide	< 5.64	ug/Kg		4/8/2016 16:06
Carbon Tetrachloride	< 5.64	ug/Kg		4/8/2016 16:06
Chlorobenzene	< 5.64	ug/Kg		4/8/2016 16:06

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Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier:	CTS-3		
Lab Sample ID:	161307-03	Date Sampled:	4/5/2016
Matrix:	Soil	Date Received:	4/6/2016

Chloroethane	< 5.64	ug/Kg	4/8/2016 16:06
Chloroform	< 5.64	ug/Kg	4/8/2016 16:06
Chloromethane	< 5.64	ug/Kg	4/8/2016 16:06
cis-1,2-Dichloroethene	< 5.64	ug/Kg	4/8/2016 16:06
cis-1,3-Dichloropropene	< 5.64	ug/Kg	4/8/2016 16:06
Cyclohexane	< 28.2	ug/Kg	4/8/2016 16:06
Dibromochloromethane	< 5.64	ug/Kg	4/8/2016 16:06
Dichlorodifluoromethane	< 5.64	ug/Kg	4/8/2016 16:06
Ethylbenzene	< 5.64	ug/Kg	4/8/2016 16:06
Freon 113	< 5.64	ug/Kg	4/8/2016 16:06
Isopropylbenzene	< 5.64	ug/Kg	4/8/2016 16:06
m,p-Xylene	< 5.64	ug/Kg	4/8/2016 16:06
Methyl acetate	< 5.64	ug/Kg	4/8/2016 16:06
Methyl tert-butyl Ether	< 5.64	ug/Kg	4/8/2016 16:06
Methylcyclohexane	< 5.64	ug/Kg	4/8/2016 16:06
Methylene chloride	< 14.1	ug/Kg	4/8/2016 16:06
Naphthalene	< 14.1	ug/Kg	4/8/2016 16:06
n-Butylbenzene	< 5.64	ug/Kg	4/8/2016 16:06
n-Propylbenzene	< 5.64	ug/Kg	4/8/2016 16:06
o-Xylene	< 5.64	ug/Kg	4/8/2016 16:06
p-Isopropyltoluene	< 5.64	ug/Kg	4/8/2016 16:06
sec-Butylbenzene	< 5.64	ug/Kg	4/8/2016 16:06
Styrene	< 14.1	ug/Kg	4/8/2016 16:06
tert-Butylbenzene	< 5.64	ug/Kg	4/8/2016 16:06
Tetrachloroethene	< 5.64	ug/Kg	4/8/2016 16:06
Toluene	< 5.64	ug/Kg	4/8/2016 16:06
trans-1,2-Dichloroethene	< 5.64	ug/Kg	4/8/2016 16:06
trans-1,3-Dichloropropene	< 5.64	ug/Kg	4/8/2016 16:06
Trichloroethene	< 5.64	ug/Kg	4/8/2016 16:06
Trichlorofluoromethane	< 5.64	ug/Kg	4/8/2016 16:06
Vinyl chloride	< 5.64	ug/Kg	4/8/2016 16:06

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Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-3

Lab Sample ID: 161307-03

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	109	85.4 - 122		4/8/2016	16:06
4-Bromofluorobenzene	94.6	81.1 - 115		4/8/2016	16:06
Pentafluorobenzene	100	90.7 - 109		4/8/2016	16:06
Toluene-D8	94.8	88.5 - 110		4/8/2016	16:06

Method Reference(s): EPA 8260C
EPA 5035

Data File: x31560.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-4

Lab Sample ID: 161307-04

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.38	ug/Kg		4/8/2016 16:30
1,1,2,2-Tetrachloroethane	< 4.38	ug/Kg		4/8/2016 16:30
1,1,2-Trichloroethane	< 4.38	ug/Kg		4/8/2016 16:30
1,1-Dichloroethane	< 4.38	ug/Kg		4/8/2016 16:30
1,1-Dichloroethene	< 4.38	ug/Kg		4/8/2016 16:30
1,2,3-Trichlorobenzene	< 10.9	ug/Kg		4/8/2016 16:30
1,2,4-Trichlorobenzene	< 10.9	ug/Kg		4/8/2016 16:30
1,2,4-Trimethylbenzene	< 4.38	ug/Kg		4/8/2016 16:30
1,2-Dibromo-3-Chloropropane	< 21.9	ug/Kg		4/8/2016 16:30
1,2-Dibromoethane	< 4.38	ug/Kg		4/8/2016 16:30
1,2-Dichlorobenzene	< 4.38	ug/Kg		4/8/2016 16:30
1,2-Dichloroethane	< 4.38	ug/Kg		4/8/2016 16:30
1,2-Dichloropropane	< 4.38	ug/Kg		4/8/2016 16:30
1,3,5-Trimethylbenzene	< 4.38	ug/Kg		4/8/2016 16:30
1,3-Dichlorobenzene	< 4.38	ug/Kg		4/8/2016 16:30
1,4-Dichlorobenzene	< 4.38	ug/Kg		4/8/2016 16:30
1,4-dioxane	< 43.8	ug/Kg		4/8/2016 16:30
2-Butanone	< 21.9	ug/Kg		4/8/2016 16:30
2-Hexanone	< 10.9	ug/Kg		4/8/2016 16:30
4-Methyl-2-pentanone	< 10.9	ug/Kg		4/8/2016 16:30
Acetone	< 21.9	ug/Kg		4/8/2016 16:30
Benzene	< 4.38	ug/Kg		4/8/2016 16:30
Bromochloromethane	< 10.9	ug/Kg		4/8/2016 16:30
Bromodichloromethane	< 4.38	ug/Kg		4/8/2016 16:30
Bromoform	< 10.9	ug/Kg		4/8/2016 16:30
Bromomethane	< 4.38	ug/Kg		4/8/2016 16:30
Carbon disulfide	< 4.38	ug/Kg		4/8/2016 16:30
Carbon Tetrachloride	< 4.38	ug/Kg		4/8/2016 16:30
Chlorobenzene	< 4.38	ug/Kg		4/8/2016 16:30

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Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier:	CTS-4		
Lab Sample ID:	161307-04	Date Sampled:	4/5/2016
Matrix:	Soil	Date Received:	4/6/2016
Chloroethane	< 4.38	ug/Kg	4/8/2016 16:30
Chloroform	< 4.38	ug/Kg	4/8/2016 16:30
Chloromethane	< 4.38	ug/Kg	4/8/2016 16:30
cis-1,2-Dichloroethene	< 4.38	ug/Kg	4/8/2016 16:30
cis-1,3-Dichloropropene	< 4.38	ug/Kg	4/8/2016 16:30
Cyclohexane	< 21.9	ug/Kg	4/8/2016 16:30
Dibromochloromethane	< 4.38	ug/Kg	4/8/2016 16:30
Dichlorodifluoromethane	< 4.38	ug/Kg	4/8/2016 16:30
Ethylbenzene	< 4.38	ug/Kg	4/8/2016 16:30
Freon 113	< 4.38	ug/Kg	4/8/2016 16:30
Isopropylbenzene	< 4.38	ug/Kg	4/8/2016 16:30
m,p-Xylene	< 4.38	ug/Kg	4/8/2016 16:30
Methyl acetate	< 4.38	ug/Kg	4/8/2016 16:30
Methyl tert-butyl Ether	< 4.38	ug/Kg	4/8/2016 16:30
Methylcyclohexane	< 4.38	ug/Kg	4/8/2016 16:30
Methylene chloride	< 10.9	ug/Kg	4/8/2016 16:30
Naphthalene	< 10.9	ug/Kg	4/8/2016 16:30
n-Butylbenzene	< 4.38	ug/Kg	4/8/2016 16:30
n-Propylbenzene	< 4.38	ug/Kg	4/8/2016 16:30
o-Xylene	< 4.38	ug/Kg	4/8/2016 16:30
p-Isopropyltoluene	< 4.38	ug/Kg	4/8/2016 16:30
sec-Butylbenzene	< 4.38	ug/Kg	4/8/2016 16:30
Styrene	< 10.9	ug/Kg	4/8/2016 16:30
tert-Butylbenzene	< 4.38	ug/Kg	4/8/2016 16:30
Tetrachloroethene	< 4.38	ug/Kg	4/8/2016 16:30
Toluene	< 4.38	ug/Kg	4/8/2016 16:30
trans-1,2-Dichloroethene	< 4.38	ug/Kg	4/8/2016 16:30
trans-1,3-Dichloropropene	< 4.38	ug/Kg	4/8/2016 16:30
Trichloroethene	< 4.38	ug/Kg	4/8/2016 16:30
Trichlorofluoromethane	< 4.38	ug/Kg	4/8/2016 16:30
Vinyl chloride	< 4.38	ug/Kg	4/8/2016 16:30

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Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-4

Lab Sample ID: 161307-04

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	108	85.4 - 122		4/8/2016	16:30
4-Bromofluorobenzene	94.5	81.1 - 115		4/8/2016	16:30
Pentafluorobenzene	100	90.7 - 109		4/8/2016	16:30
Toluene-D8	94.5	88.5 - 110		4/8/2016	16:30

Method Reference(s): EPA 8260C
EPA 5035

Data File: x31561.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-A

Lab Sample ID: 161307-05

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	4.88	mg/Kg		4/8/2016 17:13
Barium	114	mg/Kg		4/8/2016 17:13
Beryllium	0.858	mg/Kg		4/8/2016 17:13
Cadmium	< 0.317	mg/Kg		4/8/2016 17:13
Chromium	25.7	mg/Kg		4/8/2016 17:13
Copper	14.7	mg/Kg		4/8/2016 17:13
Lead	20.2	mg/Kg		4/8/2016 17:13
Manganese	462	mg/Kg		4/8/2016 17:13
Nickel	22.0	mg/Kg		4/8/2016 17:13
Selenium	2.19	mg/Kg		4/13/2016 09:51
Silver	< 1.27	mg/Kg		4/11/2016 13:06
Zinc	195	mg/Kg		4/8/2016 17:13

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 4/7/2016
Data File: 040816b

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	0.0603	mg/Kg		4/8/2016 11:59

Method Reference(s): EPA 7471B
Preparation Date: 4/7/2016
Data File: Hg160408A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0396	mg/Kg		4/10/2016 16:50
PCB-1221	< 0.0396	mg/Kg		4/10/2016 16:50
PCB-1232	< 0.0396	mg/Kg		4/10/2016 16:50
PCB-1242	< 0.0396	mg/Kg		4/10/2016 16:50
PCB-1248	< 0.0396	mg/Kg		4/10/2016 16:50

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Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-A

Lab Sample ID: 161307-05

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

PCB-1254	< 0.0396	mg/Kg	4/10/2016 16:50
PCB-1260	< 0.0396	mg/Kg	4/10/2016 16:50
PCB-1262	< 0.0396	mg/Kg	4/10/2016 16:50
PCB-1268	< 0.0396	mg/Kg	4/10/2016 16:50

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	72.8	0.53 - 137		4/10/2016 16:50
Tetrachloro-m-xylene	53.8	0 - 138		4/10/2016 16:50

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 4/7/2016

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.96	ug/Kg		4/7/2016 16:41
4,4-DDE	< 3.96	ug/Kg		4/7/2016 16:41
4,4-DDT	< 3.96	ug/Kg		4/7/2016 16:41
Aldrin	< 3.96	ug/Kg		4/7/2016 16:41
alpha-BHC	< 3.96	ug/Kg		4/7/2016 16:41
beta-BHC	< 3.96	ug/Kg		4/7/2016 16:41
cis-Chlordane	< 3.96	ug/Kg		4/7/2016 16:41
delta-BHC	< 3.96	ug/Kg		4/7/2016 16:41
Dieldrin	< 3.96	ug/Kg		4/7/2016 16:41
Endosulfan I	< 3.96	ug/Kg		4/7/2016 16:41
Endosulfan II	< 3.96	ug/Kg		4/7/2016 16:41
Endosulfan Sulfate	< 3.96	ug/Kg		4/7/2016 16:41
Endrin	< 3.96	ug/Kg		4/7/2016 16:41
Endrin Aldehyde	< 3.96	ug/Kg		4/7/2016 16:41
Endrin Ketone	< 3.96	ug/Kg		4/7/2016 16:41
gamma-BHC (Lindane)	< 3.96	ug/Kg		4/7/2016 16:41
Heptachlor	< 3.96	ug/Kg		4/7/2016 16:41
Heptachlor Epoxide	< 3.96	ug/Kg		4/7/2016 16:41
Methoxychlor	< 3.96	ug/Kg		4/7/2016 16:41
Toxaphene	< 39.6	ug/Kg		4/7/2016 16:41

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Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-A

Lab Sample ID: 161307-05

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

trans-Chlordane < 3.96 ug/Kg 4/7/2016 16:41

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
Decachlorobiphenyl (1)	71.1	9.5 - 93.3		4/7/2016 16:41
Tetrachloro-m-xylene (1)	43.9	13.2 - 96.3		4/7/2016 16:41

Method Reference(s): EPA 8081B

EPA 3550C

Preparation Date: 4/7/2016

Semi-Volatile Organics (Acid/Base Neutrals)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,1-Biphenyl	< 397	ug/Kg		4/11/2016 19:26
1,2,4,5-Tetrachlorobenzene	< 397	ug/Kg		4/11/2016 19:26
1,2,4-Trichlorobenzene	< 397	ug/Kg		4/11/2016 19:26
1,2-Dichlorobenzene	< 397	ug/Kg		4/11/2016 19:26
1,3-Dichlorobenzene	< 397	ug/Kg		4/11/2016 19:26
1,4-Dichlorobenzene	< 397	ug/Kg		4/11/2016 19:26
2,3,4,6-Tetrachlorophenol	< 397	ug/Kg		4/11/2016 19:26
2,4,5-Trichlorophenol	< 794	ug/Kg		4/11/2016 19:26
2,4,6-Trichlorophenol	< 397	ug/Kg		4/11/2016 19:26
2,4-Dichlorophenol	< 397	ug/Kg		4/11/2016 19:26
2,4-Dimethylphenol	< 397	ug/Kg		4/11/2016 19:26
2,4-Dinitrophenol	< 794	ug/Kg		4/11/2016 19:26
2,4-Dinitrotoluene	< 397	ug/Kg		4/11/2016 19:26
2,6-Dinitrotoluene	< 397	ug/Kg		4/11/2016 19:26
2-Chloronaphthalene	< 397	ug/Kg		4/11/2016 19:26
2-Chlorophenol	< 397	ug/Kg		4/11/2016 19:26
2-Methylnaphthalene	< 397	ug/Kg		4/11/2016 19:26
2-Methylphenol	< 397	ug/Kg		4/11/2016 19:26
2-Nitroaniline	< 794	ug/Kg		4/11/2016 19:26
2-Nitrophenol	< 397	ug/Kg		4/11/2016 19:26
3&4-Methylphenol	< 397	ug/Kg		4/11/2016 19:26
3,3'-Dichlorobenzidine	< 397	ug/Kg		4/11/2016 19:26
3-Nitroaniline	< 794	ug/Kg		4/11/2016 19:26

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Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-A

Lab Sample ID: 161307-05

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

4,6-Dinitro-2-methylphenol	< 794	ug/Kg	4/11/2016 19:26
4-Bromophenyl phenyl ether	< 397	ug/Kg	4/11/2016 19:26
4-Chloro-3-methylphenol	< 397	ug/Kg	4/11/2016 19:26
4-Chloroaniline	< 397	ug/Kg	4/11/2016 19:26
4-Chlorophenyl phenyl ether	< 397	ug/Kg	4/11/2016 19:26
4-Nitroaniline	< 794	ug/Kg	4/11/2016 19:26
4-Nitrophenol	< 794	ug/Kg	4/11/2016 19:26
Acenaphthene	< 397	ug/Kg	4/11/2016 19:26
Acenaphthylene	< 397	ug/Kg	4/11/2016 19:26
Acetophenone	< 397	ug/Kg	4/11/2016 19:26
Anthracene	< 397	ug/Kg	4/11/2016 19:26
Atrazine	< 397	ug/Kg	4/11/2016 19:26
Benzaldehyde	< 397	ug/Kg	4/11/2016 19:26
Benzo (a) anthracene	< 397	ug/Kg	4/11/2016 19:26
Benzo (a) pyrene	< 397	ug/Kg	4/11/2016 19:26
Benzo (b) fluoranthene	< 397	ug/Kg	4/11/2016 19:26
Benzo (g,h,i) perylene	< 397	ug/Kg	4/11/2016 19:26
Benzo (k) fluoranthene	< 397	ug/Kg	4/11/2016 19:26
Bis (2-chloroethoxy) methane	< 397	ug/Kg	4/11/2016 19:26
Bis (2-chloroethyl) ether	< 397	ug/Kg	4/11/2016 19:26
Bis (2-chloroisopropyl) ether	< 397	ug/Kg	4/11/2016 19:26
Bis (2-ethylhexyl) phthalate	< 397	ug/Kg	4/11/2016 19:26
Butylbenzylphthalate	< 397	ug/Kg	4/11/2016 19:26
Caprolactam	< 397	ug/Kg	4/11/2016 19:26
Carbazole	< 397	ug/Kg	4/11/2016 19:26
Chrysene	< 397	ug/Kg	4/11/2016 19:26
Dibenz (a,h) anthracene	< 397	ug/Kg	4/11/2016 19:26
Dibenzofuran	< 397	ug/Kg	4/11/2016 19:26
Diethyl phthalate	< 397	ug/Kg	4/11/2016 19:26
Dimethyl phthalate	< 794	ug/Kg	4/11/2016 19:26
Di-n-butyl phthalate	< 397	ug/Kg	4/11/2016 19:26
Di-n-octylphthalate	< 397	ug/Kg	4/11/2016 19:26

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Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-A

Lab Sample ID: 161307-05

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Fluoranthene	< 397	ug/Kg	4/11/2016	19:26
Fluorene	< 397	ug/Kg	4/11/2016	19:26
Hexachlorobenzene	< 397	ug/Kg	4/11/2016	19:26
Hexachlorobutadiene	< 397	ug/Kg	4/11/2016	19:26
Hexachlorocyclopentadiene	< 397	ug/Kg	4/11/2016	19:26
Hexachloroethane	< 397	ug/Kg	4/11/2016	19:26
Indeno (1,2,3-cd) pyrene	< 397	ug/Kg	4/11/2016	19:26
Isophorone	< 397	ug/Kg	4/11/2016	19:26
Naphthalene	< 397	ug/Kg	4/11/2016	19:26
Nitrobenzene	< 397	ug/Kg	4/11/2016	19:26
N-Nitroso-di-n-propylamine	< 397	ug/Kg	4/11/2016	19:26
N-Nitrosodiphenylamine	< 397	ug/Kg	4/11/2016	19:26
Pentachlorophenol	< 794	ug/Kg	4/11/2016	19:26
Phenanthrene	< 397	ug/Kg	4/11/2016	19:26
Phenol	< 397	ug/Kg	4/11/2016	19:26
Pyrene	< 397	ug/Kg	4/11/2016	19:26

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	62.8	26.8 - 101		4/11/2016 19:26
2-Fluorobiphenyl	44.0	34.4 - 98.8		4/11/2016 19:26
2-Fluorophenol	44.3	31.4 - 89.7		4/11/2016 19:26
Nitrobenzene-d5	40.5	37.1 - 83.6		4/11/2016 19:26
Phenol-d5	46.3	36.3 - 94.5		4/11/2016 19:26
Terphenyl-d14	66.5	51.8 - 112		4/11/2016 19:26

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 4/11/2016
Data File: B11030.D

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	0.395	mg/Kg	J	4/12/2016

Method Reference(s): EPA 9014
Preparation Date: 4/12/2016

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Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-5

Lab Sample ID: 161307-06

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 5.12	ug/Kg		4/8/2016 16:55
1,1,2,2-Tetrachloroethane	< 5.12	ug/Kg		4/8/2016 16:55
1,1,2-Trichloroethane	< 5.12	ug/Kg		4/8/2016 16:55
1,1-Dichloroethane	< 5.12	ug/Kg		4/8/2016 16:55
1,1-Dichloroethene	< 5.12	ug/Kg		4/8/2016 16:55
1,2,3-Trichlorobenzene	< 12.8	ug/Kg		4/8/2016 16:55
1,2,4-Trichlorobenzene	< 12.8	ug/Kg		4/8/2016 16:55
1,2,4-Trimethylbenzene	< 5.12	ug/Kg		4/8/2016 16:55
1,2-Dibromo-3-Chloropropane	< 25.6	ug/Kg		4/8/2016 16:55
1,2-Dibromoethane	< 5.12	ug/Kg		4/8/2016 16:55
1,2-Dichlorobenzene	< 5.12	ug/Kg		4/8/2016 16:55
1,2-Dichloroethane	< 5.12	ug/Kg		4/8/2016 16:55
1,2-Dichloropropane	< 5.12	ug/Kg		4/8/2016 16:55
1,3,5-Trimethylbenzene	< 5.12	ug/Kg		4/8/2016 16:55
1,3-Dichlorobenzene	< 5.12	ug/Kg		4/8/2016 16:55
1,4-Dichlorobenzene	< 5.12	ug/Kg		4/8/2016 16:55
1,4-dioxane	< 51.2	ug/Kg		4/8/2016 16:55
2-Butanone	< 25.6	ug/Kg		4/8/2016 16:55
2-Hexanone	< 12.8	ug/Kg		4/8/2016 16:55
4-Methyl-2-pentanone	< 12.8	ug/Kg		4/8/2016 16:55
Acetone	< 25.6	ug/Kg		4/8/2016 16:55
Benzene	< 5.12	ug/Kg		4/8/2016 16:55
Bromochloromethane	< 12.8	ug/Kg		4/8/2016 16:55
Bromodichloromethane	< 5.12	ug/Kg		4/8/2016 16:55
Bromoform	< 12.8	ug/Kg		4/8/2016 16:55
Bromomethane	< 5.12	ug/Kg		4/8/2016 16:55
Carbon disulfide	< 5.12	ug/Kg		4/8/2016 16:55
Carbon Tetrachloride	< 5.12	ug/Kg		4/8/2016 16:55
Chlorobenzene	< 5.12	ug/Kg		4/8/2016 16:55

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Lab Project ID: 161307

Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier:	CTS-5			
Lab Sample ID:	161307-06		Date Sampled:	4/5/2016
Matrix:	Soil		Date Received:	4/6/2016

Chloroethane	< 5.12	ug/Kg	4/8/2016	16:55
Chloroform	< 5.12	ug/Kg	4/8/2016	16:55
Chloromethane	< 5.12	ug/Kg	4/8/2016	16:55
cis-1,2-Dichloroethene	< 5.12	ug/Kg	4/8/2016	16:55
cis-1,3-Dichloropropene	< 5.12	ug/Kg	4/8/2016	16:55
Cyclohexane	< 25.6	ug/Kg	4/8/2016	16:55
Dibromochloromethane	< 5.12	ug/Kg	4/8/2016	16:55
Dichlorodifluoromethane	< 5.12	ug/Kg	4/8/2016	16:55
Ethylbenzene	< 5.12	ug/Kg	4/8/2016	16:55
Freon 113	< 5.12	ug/Kg	4/8/2016	16:55
Isopropylbenzene	< 5.12	ug/Kg	4/8/2016	16:55
m,p-Xylene	< 5.12	ug/Kg	4/8/2016	16:55
Methyl acetate	< 5.12	ug/Kg	4/8/2016	16:55
Methyl tert-butyl Ether	< 5.12	ug/Kg	4/8/2016	16:55
Methylcyclohexane	< 5.12	ug/Kg	4/8/2016	16:55
Methylene chloride	< 12.8	ug/Kg	4/8/2016	16:55
Naphthalene	< 12.8	ug/Kg	4/8/2016	16:55
n-Butylbenzene	< 5.12	ug/Kg	4/8/2016	16:55
n-Propylbenzene	< 5.12	ug/Kg	4/8/2016	16:55
o-Xylene	< 5.12	ug/Kg	4/8/2016	16:55
p-Isopropyltoluene	< 5.12	ug/Kg	4/8/2016	16:55
sec-Butylbenzene	< 5.12	ug/Kg	4/8/2016	16:55
Styrene	< 12.8	ug/Kg	4/8/2016	16:55
tert-Butylbenzene	< 5.12	ug/Kg	4/8/2016	16:55
Tetrachloroethene	< 5.12	ug/Kg	4/8/2016	16:55
Toluene	< 5.12	ug/Kg	4/8/2016	16:55
trans-1,2-Dichloroethene	< 5.12	ug/Kg	4/8/2016	16:55
trans-1,3-Dichloropropene	< 5.12	ug/Kg	4/8/2016	16:55
Trichloroethene	< 5.12	ug/Kg	4/8/2016	16:55
Trichlorofluoromethane	< 5.12	ug/Kg	4/8/2016	16:55
Vinyl chloride	< 5.12	ug/Kg	4/8/2016	16:55

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Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-5

Lab Sample ID: 161307-06

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	108	85.4 - 122		4/8/2016	16:55
4-Bromofluorobenzene	94.1	81.1 - 115		4/8/2016	16:55
Pentafluorobenzene	100	90.7 - 109		4/8/2016	16:55
Toluene-D8	95.4	88.5 - 110		4/8/2016	16:55

Method Reference(s): EPA 8260C
EPA 5035

Data File: x31562.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-6

Lab Sample ID: 161307-07

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.14	ug/Kg		4/8/2016 17:19
1,1,2,2-Tetrachloroethane	< 4.14	ug/Kg		4/8/2016 17:19
1,1,2-Trichloroethane	< 4.14	ug/Kg		4/8/2016 17:19
1,1-Dichloroethane	< 4.14	ug/Kg		4/8/2016 17:19
1,1-Dichloroethene	< 4.14	ug/Kg		4/8/2016 17:19
1,2,3-Trichlorobenzene	< 10.4	ug/Kg		4/8/2016 17:19
1,2,4-Trichlorobenzene	< 10.4	ug/Kg		4/8/2016 17:19
1,2,4-Trimethylbenzene	< 4.14	ug/Kg		4/8/2016 17:19
1,2-Dibromo-3-Chloropropane	< 20.7	ug/Kg		4/8/2016 17:19
1,2-Dibromoethane	< 4.14	ug/Kg		4/8/2016 17:19
1,2-Dichlorobenzene	< 4.14	ug/Kg		4/8/2016 17:19
1,2-Dichloroethane	< 4.14	ug/Kg		4/8/2016 17:19
1,2-Dichloropropane	< 4.14	ug/Kg		4/8/2016 17:19
1,3,5-Trimethylbenzene	< 4.14	ug/Kg		4/8/2016 17:19
1,3-Dichlorobenzene	< 4.14	ug/Kg		4/8/2016 17:19
1,4-Dichlorobenzene	< 4.14	ug/Kg		4/8/2016 17:19
1,4-dioxane	< 41.4	ug/Kg		4/8/2016 17:19
2-Butanone	< 20.7	ug/Kg		4/8/2016 17:19
2-Hexanone	< 10.4	ug/Kg		4/8/2016 17:19
4-Methyl-2-pentanone	< 10.4	ug/Kg		4/8/2016 17:19
Acetone	< 20.7	ug/Kg		4/8/2016 17:19
Benzene	< 4.14	ug/Kg		4/8/2016 17:19
Bromochloromethane	< 10.4	ug/Kg		4/8/2016 17:19
Bromodichloromethane	< 4.14	ug/Kg		4/8/2016 17:19
Bromoform	< 10.4	ug/Kg		4/8/2016 17:19
Bromomethane	< 4.14	ug/Kg		4/8/2016 17:19
Carbon disulfide	< 4.14	ug/Kg		4/8/2016 17:19
Carbon Tetrachloride	< 4.14	ug/Kg		4/8/2016 17:19
Chlorobenzene	< 4.14	ug/Kg		4/8/2016 17:19

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Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier:	CTS-6		
Lab Sample ID:	161307-07	Date Sampled:	4/5/2016
Matrix:	Soil	Date Received:	4/6/2016

Chloroethane	< 4.14	ug/Kg	4/8/2016 17:19
Chloroform	< 4.14	ug/Kg	4/8/2016 17:19
Chloromethane	< 4.14	ug/Kg	4/8/2016 17:19
cis-1,2-Dichloroethene	< 4.14	ug/Kg	4/8/2016 17:19
cis-1,3-Dichloropropene	< 4.14	ug/Kg	4/8/2016 17:19
Cyclohexane	< 20.7	ug/Kg	4/8/2016 17:19
Dibromochloromethane	< 4.14	ug/Kg	4/8/2016 17:19
Dichlorodifluoromethane	< 4.14	ug/Kg	4/8/2016 17:19
Ethylbenzene	< 4.14	ug/Kg	4/8/2016 17:19
Freon 113	< 4.14	ug/Kg	4/8/2016 17:19
Isopropylbenzene	< 4.14	ug/Kg	4/8/2016 17:19
m,p-Xylene	< 4.14	ug/Kg	4/8/2016 17:19
Methyl acetate	< 4.14	ug/Kg	4/8/2016 17:19
Methyl tert-butyl Ether	< 4.14	ug/Kg	4/8/2016 17:19
Methylcyclohexane	< 4.14	ug/Kg	4/8/2016 17:19
Methylene chloride	< 10.4	ug/Kg	4/8/2016 17:19
Naphthalene	< 10.4	ug/Kg	4/8/2016 17:19
n-Butylbenzene	< 4.14	ug/Kg	4/8/2016 17:19
n-Propylbenzene	< 4.14	ug/Kg	4/8/2016 17:19
o-Xylene	< 4.14	ug/Kg	4/8/2016 17:19
p-Isopropyltoluene	< 4.14	ug/Kg	4/8/2016 17:19
sec-Butylbenzene	< 4.14	ug/Kg	4/8/2016 17:19
Styrene	< 10.4	ug/Kg	4/8/2016 17:19
tert-Butylbenzene	< 4.14	ug/Kg	4/8/2016 17:19
Tetrachloroethene	< 4.14	ug/Kg	4/8/2016 17:19
Toluene	< 4.14	ug/Kg	4/8/2016 17:19
trans-1,2-Dichloroethene	< 4.14	ug/Kg	4/8/2016 17:19
trans-1,3-Dichloropropene	< 4.14	ug/Kg	4/8/2016 17:19
Trichloroethene	< 4.14	ug/Kg	4/8/2016 17:19
Trichlorofluoromethane	< 4.14	ug/Kg	4/8/2016 17:19
Vinyl chloride	< 4.14	ug/Kg	4/8/2016 17:19

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Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-6

Lab Sample ID: 161307-07

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	107	85.4 - 122		4/8/2016	17:19
4-Bromofluorobenzene	94.2	81.1 - 115		4/8/2016	17:19
Pentafluorobenzene	100	90.7 - 109		4/8/2016	17:19
Toluene-D8	94.5	88.5 - 110		4/8/2016	17:19

Method Reference(s): EPA 8260C
EPA 5035

Data File: x31563.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-7

Lab Sample ID: 161307-08

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 3.70	ug/Kg		4/8/2016 17:43
1,1,2,2-Tetrachloroethane	< 3.70	ug/Kg		4/8/2016 17:43
1,1,2-Trichloroethane	< 3.70	ug/Kg		4/8/2016 17:43
1,1-Dichloroethane	< 3.70	ug/Kg		4/8/2016 17:43
1,1-Dichloroethene	< 3.70	ug/Kg		4/8/2016 17:43
1,2,3-Trichlorobenzene	< 9.25	ug/Kg		4/8/2016 17:43
1,2,4-Trichlorobenzene	< 9.25	ug/Kg		4/8/2016 17:43
1,2,4-Trimethylbenzene	< 3.70	ug/Kg		4/8/2016 17:43
1,2-Dibromo-3-Chloropropane	< 18.5	ug/Kg		4/8/2016 17:43
1,2-Dibromoethane	< 3.70	ug/Kg		4/8/2016 17:43
1,2-Dichlorobenzene	< 3.70	ug/Kg		4/8/2016 17:43
1,2-Dichloroethane	< 3.70	ug/Kg		4/8/2016 17:43
1,2-Dichloropropane	< 3.70	ug/Kg		4/8/2016 17:43
1,3,5-Trimethylbenzene	< 3.70	ug/Kg		4/8/2016 17:43
1,3-Dichlorobenzene	< 3.70	ug/Kg		4/8/2016 17:43
1,4-Dichlorobenzene	< 3.70	ug/Kg		4/8/2016 17:43
1,4-dioxane	< 37.0	ug/Kg		4/8/2016 17:43
2-Butanone	< 18.5	ug/Kg		4/8/2016 17:43
2-Hexanone	< 9.25	ug/Kg		4/8/2016 17:43
4-Methyl-2-pentanone	< 9.25	ug/Kg		4/8/2016 17:43
Acetone	< 18.5	ug/Kg		4/8/2016 17:43
Benzene	< 3.70	ug/Kg		4/8/2016 17:43
Bromochloromethane	< 9.25	ug/Kg		4/8/2016 17:43
Bromodichloromethane	< 3.70	ug/Kg		4/8/2016 17:43
Bromoform	< 9.25	ug/Kg		4/8/2016 17:43
Bromomethane	< 3.70	ug/Kg		4/8/2016 17:43
Carbon disulfide	< 3.70	ug/Kg		4/8/2016 17:43
Carbon Tetrachloride	< 3.70	ug/Kg		4/8/2016 17:43
Chlorobenzene	< 3.70	ug/Kg		4/8/2016 17:43

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Lab Project ID: 161307

Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier:	CTS-7			
Lab Sample ID:	161307-08		Date Sampled:	4/5/2016
Matrix:	Soil		Date Received:	4/6/2016
Chloroethane	< 3.70	ug/Kg		4/8/2016 17:43
Chloroform	< 3.70	ug/Kg		4/8/2016 17:43
Chloromethane	< 3.70	ug/Kg		4/8/2016 17:43
cis-1,2-Dichloroethene	< 3.70	ug/Kg		4/8/2016 17:43
cis-1,3-Dichloropropene	< 3.70	ug/Kg		4/8/2016 17:43
Cyclohexane	< 18.5	ug/Kg		4/8/2016 17:43
Dibromochloromethane	< 3.70	ug/Kg		4/8/2016 17:43
Dichlorodifluoromethane	< 3.70	ug/Kg		4/8/2016 17:43
Ethylbenzene	< 3.70	ug/Kg		4/8/2016 17:43
Freon 113	< 3.70	ug/Kg		4/8/2016 17:43
Isopropylbenzene	< 3.70	ug/Kg		4/8/2016 17:43
m,p-Xylene	< 3.70	ug/Kg		4/8/2016 17:43
Methyl acetate	< 3.70	ug/Kg		4/8/2016 17:43
Methyl tert-butyl Ether	< 3.70	ug/Kg		4/8/2016 17:43
Methylcyclohexane	< 3.70	ug/Kg		4/8/2016 17:43
Methylene chloride	< 9.25	ug/Kg		4/8/2016 17:43
Naphthalene	< 9.25	ug/Kg		4/8/2016 17:43
n-Butylbenzene	< 3.70	ug/Kg		4/8/2016 17:43
n-Propylbenzene	< 3.70	ug/Kg		4/8/2016 17:43
o-Xylene	< 3.70	ug/Kg		4/8/2016 17:43
p-Isopropyltoluene	< 3.70	ug/Kg		4/8/2016 17:43
sec-Butylbenzene	< 3.70	ug/Kg		4/8/2016 17:43
Styrene	< 9.25	ug/Kg		4/8/2016 17:43
tert-Butylbenzene	< 3.70	ug/Kg		4/8/2016 17:43
Tetrachloroethene	< 3.70	ug/Kg		4/8/2016 17:43
Toluene	< 3.70	ug/Kg		4/8/2016 17:43
trans-1,2-Dichloroethene	< 3.70	ug/Kg		4/8/2016 17:43
trans-1,3-Dichloropropene	< 3.70	ug/Kg		4/8/2016 17:43
Trichloroethene	< 3.70	ug/Kg		4/8/2016 17:43
Trichlorofluoromethane	< 3.70	ug/Kg		4/8/2016 17:43
Vinyl chloride	< 3.70	ug/Kg		4/8/2016 17:43

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Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-7

Lab Sample ID: 161307-08

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	108	85.4 - 122		4/8/2016	17:43
4-Bromofluorobenzene	94.7	81.1 - 115		4/8/2016	17:43
Pentafluorobenzene	99.9	90.7 - 109		4/8/2016	17:43
Toluene-D8	94.8	88.5 - 110		4/8/2016	17:43

Method Reference(s): EPA 8260C
EPA 5035

Data File: x31564.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-8

Lab Sample ID: 161307-09

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.77	ug/Kg		4/8/2016 18:08
1,1,2,2-Tetrachloroethane	< 4.77	ug/Kg		4/8/2016 18:08
1,1,2-Trichloroethane	< 4.77	ug/Kg		4/8/2016 18:08
1,1-Dichloroethane	< 4.77	ug/Kg		4/8/2016 18:08
1,1-Dichloroethene	< 4.77	ug/Kg		4/8/2016 18:08
1,2,3-Trichlorobenzene	< 11.9	ug/Kg		4/8/2016 18:08
1,2,4-Trichlorobenzene	< 11.9	ug/Kg		4/8/2016 18:08
1,2,4-Trimethylbenzene	< 4.77	ug/Kg		4/8/2016 18:08
1,2-Dibromo-3-Chloropropane	< 23.9	ug/Kg		4/8/2016 18:08
1,2-Dibromoethane	< 4.77	ug/Kg		4/8/2016 18:08
1,2-Dichlorobenzene	< 4.77	ug/Kg		4/8/2016 18:08
1,2-Dichloroethane	< 4.77	ug/Kg		4/8/2016 18:08
1,2-Dichloropropane	< 4.77	ug/Kg		4/8/2016 18:08
1,3,5-Trimethylbenzene	< 4.77	ug/Kg		4/8/2016 18:08
1,3-Dichlorobenzene	< 4.77	ug/Kg		4/8/2016 18:08
1,4-Dichlorobenzene	< 4.77	ug/Kg		4/8/2016 18:08
1,4-dioxane	< 47.7	ug/Kg		4/8/2016 18:08
2-Butanone	< 23.9	ug/Kg		4/8/2016 18:08
2-Hexanone	< 11.9	ug/Kg		4/8/2016 18:08
4-Methyl-2-pentanone	< 11.9	ug/Kg		4/8/2016 18:08
Acetone	< 23.9	ug/Kg		4/8/2016 18:08
Benzene	< 4.77	ug/Kg		4/8/2016 18:08
Bromochloromethane	< 11.9	ug/Kg		4/8/2016 18:08
Bromodichloromethane	< 4.77	ug/Kg		4/8/2016 18:08
Bromoform	< 11.9	ug/Kg		4/8/2016 18:08
Bromomethane	< 4.77	ug/Kg		4/8/2016 18:08
Carbon disulfide	< 4.77	ug/Kg		4/8/2016 18:08
Carbon Tetrachloride	< 4.77	ug/Kg		4/8/2016 18:08
Chlorobenzene	< 4.77	ug/Kg		4/8/2016 18:08

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Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier:	CTS-8		
Lab Sample ID:	161307-09	Date Sampled:	4/5/2016
Matrix:	Soil	Date Received:	4/6/2016

Chloroethane	< 4.77	ug/Kg	4/8/2016 18:08
Chloroform	< 4.77	ug/Kg	4/8/2016 18:08
Chloromethane	< 4.77	ug/Kg	4/8/2016 18:08
cis-1,2-Dichloroethene	< 4.77	ug/Kg	4/8/2016 18:08
cis-1,3-Dichloropropene	< 4.77	ug/Kg	4/8/2016 18:08
Cyclohexane	< 23.9	ug/Kg	4/8/2016 18:08
Dibromochloromethane	< 4.77	ug/Kg	4/8/2016 18:08
Dichlorodifluoromethane	< 4.77	ug/Kg	4/8/2016 18:08
Ethylbenzene	< 4.77	ug/Kg	4/8/2016 18:08
Freon 113	< 4.77	ug/Kg	4/8/2016 18:08
Isopropylbenzene	< 4.77	ug/Kg	4/8/2016 18:08
m,p-Xylene	< 4.77	ug/Kg	4/8/2016 18:08
Methyl acetate	< 4.77	ug/Kg	4/8/2016 18:08
Methyl tert-butyl Ether	< 4.77	ug/Kg	4/8/2016 18:08
Methylcyclohexane	< 4.77	ug/Kg	4/8/2016 18:08
Methylene chloride	< 11.9	ug/Kg	4/8/2016 18:08
Naphthalene	< 11.9	ug/Kg	4/8/2016 18:08
n-Butylbenzene	< 4.77	ug/Kg	4/8/2016 18:08
n-Propylbenzene	< 4.77	ug/Kg	4/8/2016 18:08
o-Xylene	< 4.77	ug/Kg	4/8/2016 18:08
p-Isopropyltoluene	< 4.77	ug/Kg	4/8/2016 18:08
sec-Butylbenzene	< 4.77	ug/Kg	4/8/2016 18:08
Styrene	< 11.9	ug/Kg	4/8/2016 18:08
tert-Butylbenzene	< 4.77	ug/Kg	4/8/2016 18:08
Tetrachloroethene	< 4.77	ug/Kg	4/8/2016 18:08
Toluene	< 4.77	ug/Kg	4/8/2016 18:08
trans-1,2-Dichloroethene	< 4.77	ug/Kg	4/8/2016 18:08
trans-1,3-Dichloropropene	< 4.77	ug/Kg	4/8/2016 18:08
Trichloroethene	< 4.77	ug/Kg	4/8/2016 18:08
Trichlorofluoromethane	< 4.77	ug/Kg	4/8/2016 18:08
Vinyl chloride	< 4.77	ug/Kg	4/8/2016 18:08

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Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-8

Lab Sample ID: 161307-09

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	108	85.4 - 122		4/8/2016	18:08
4-Bromofluorobenzene	94.9	81.1 - 115		4/8/2016	18:08
Pentafluorobenzene	101	90.7 - 109		4/8/2016	18:08
Toluene-D8	94.7	88.5 - 110		4/8/2016	18:08

Method Reference(s): EPA 8260C
EPA 5035

Data File: x31565.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-B

Lab Sample ID: 161307-10

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	5.83	mg/Kg		4/8/2016 17:17
Barium	103	mg/Kg		4/8/2016 17:17
Beryllium	0.807	mg/Kg		4/8/2016 17:17
Cadmium	< 0.338	mg/Kg		4/8/2016 17:17
Chromium	22.8	mg/Kg		4/8/2016 17:17
Copper	11.7	mg/Kg		4/8/2016 17:17
Lead	21.4	mg/Kg		4/8/2016 17:17
Manganese	1330	mg/Kg		4/11/2016 13:14
Nickel	18.9	mg/Kg		4/8/2016 17:17
Selenium	< 0.675	mg/Kg		4/11/2016 13:23
Silver	< 0.675	mg/Kg		4/8/2016 17:17
Zinc	75.2	mg/Kg		4/8/2016 17:17

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 4/7/2016
Data File: 040816b

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	0.0531	mg/Kg		4/8/2016 12:02

Method Reference(s): EPA 7471B
Preparation Date: 4/7/2016
Data File: Hg160408A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0383	mg/Kg		4/10/2016 17:13
PCB-1221	< 0.0383	mg/Kg		4/10/2016 17:13
PCB-1232	< 0.0383	mg/Kg		4/10/2016 17:13
PCB-1242	< 0.0383	mg/Kg		4/10/2016 17:13
PCB-1248	< 0.0383	mg/Kg		4/10/2016 17:13

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Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-B

Lab Sample ID: 161307-10

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

PCB-1254	< 0.0383	mg/Kg		4/10/2016 17:13
PCB-1260	< 0.0383	mg/Kg		4/10/2016 17:13
PCB-1262	< 0.0383	mg/Kg		4/10/2016 17:13
PCB-1268	< 0.0383	mg/Kg		4/10/2016 17:13

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	75.0	0.53 - 137		4/10/2016 17:13
Tetrachloro-m-xylene	56.3	0 - 138		4/10/2016 17:13

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 4/7/2016

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.83	ug/Kg		4/7/2016 16:54
4,4-DDE	< 3.83	ug/Kg		4/7/2016 16:54
4,4-DDT	< 3.83	ug/Kg		4/7/2016 16:54
Aldrin	< 3.83	ug/Kg		4/7/2016 16:54
alpha-BHC	< 3.83	ug/Kg		4/7/2016 16:54
beta-BHC	< 3.83	ug/Kg		4/7/2016 16:54
cis-Chlordane	< 3.83	ug/Kg		4/7/2016 16:54
delta-BHC	< 3.83	ug/Kg		4/7/2016 16:54
Dieldrin	< 3.83	ug/Kg		4/7/2016 16:54
Endosulfan I	< 3.83	ug/Kg		4/7/2016 16:54
Endosulfan II	< 3.83	ug/Kg		4/7/2016 16:54
Endosulfan Sulfate	< 3.83	ug/Kg		4/7/2016 16:54
Endrin	6.04	ug/Kg	P	4/7/2016 16:54
Endrin Aldehyde	< 3.83	ug/Kg		4/7/2016 16:54
Endrin Ketone	< 3.83	ug/Kg		4/7/2016 16:54
gamma-BHC (Lindane)	< 3.83	ug/Kg		4/7/2016 16:54
Heptachlor	< 3.83	ug/Kg		4/7/2016 16:54
Heptachlor Epoxide	2.49	ug/Kg	J	4/7/2016 16:54
Methoxychlor	< 3.83	ug/Kg		4/7/2016 16:54
Toxaphene	< 38.3	ug/Kg		4/7/2016 16:54

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Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-B

Lab Sample ID: 161307-10

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

trans-Chlordane < 3.83 ug/Kg 4/7/2016 16:54

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
Decachlorobiphenyl (1)	70.0	9.5 - 93.3		4/7/2016 16:54
Tetrachloro-m-xylene (1)	40.7	13.2 - 96.3		4/7/2016 16:54

Method Reference(s): EPA 8081B

EPA 3550C

Preparation Date: 4/7/2016

Semi-Volatile Organics (Acid/Base Neutrals)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,1-Biphenyl	< 385	ug/Kg		4/11/2016 19:55
1,2,4,5-Tetrachlorobenzene	< 385	ug/Kg		4/11/2016 19:55
1,2,4-Trichlorobenzene	< 385	ug/Kg		4/11/2016 19:55
1,2-Dichlorobenzene	< 385	ug/Kg		4/11/2016 19:55
1,3-Dichlorobenzene	< 385	ug/Kg		4/11/2016 19:55
1,4-Dichlorobenzene	< 385	ug/Kg		4/11/2016 19:55
2,3,4,6-Tetrachlorophenol	< 385	ug/Kg		4/11/2016 19:55
2,4,5-Trichlorophenol	< 771	ug/Kg		4/11/2016 19:55
2,4,6-Trichlorophenol	< 385	ug/Kg		4/11/2016 19:55
2,4-Dichlorophenol	< 385	ug/Kg		4/11/2016 19:55
2,4-Dimethylphenol	< 385	ug/Kg		4/11/2016 19:55
2,4-Dinitrophenol	< 771	ug/Kg		4/11/2016 19:55
2,4-Dinitrotoluene	< 385	ug/Kg		4/11/2016 19:55
2,6-Dinitrotoluene	< 385	ug/Kg		4/11/2016 19:55
2-Chloronaphthalene	< 385	ug/Kg		4/11/2016 19:55
2-Chlorophenol	< 385	ug/Kg		4/11/2016 19:55
2-Methylnaphthalene	< 385	ug/Kg		4/11/2016 19:55
2-Methylphenol	< 385	ug/Kg		4/11/2016 19:55
2-Nitroaniline	< 771	ug/Kg		4/11/2016 19:55
2-Nitrophenol	< 385	ug/Kg		4/11/2016 19:55
3&4-Methylphenol	< 385	ug/Kg		4/11/2016 19:55
3,3'-Dichlorobenzidine	< 385	ug/Kg		4/11/2016 19:55
3-Nitroaniline	< 771	ug/Kg		4/11/2016 19:55

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Lab Project ID: 161307

Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier:	CTS-B			
Lab Sample ID:	161307-10		Date Sampled:	4/5/2016
Matrix:	Soil		Date Received:	4/6/2016

4,6-Dinitro-2-methylphenol	< 771	ug/Kg	4/11/2016	19:55
4-Bromophenyl phenyl ether	< 385	ug/Kg	4/11/2016	19:55
4-Chloro-3-methylphenol	< 385	ug/Kg	4/11/2016	19:55
4-Chloroaniline	< 385	ug/Kg	4/11/2016	19:55
4-Chlorophenyl phenyl ether	< 385	ug/Kg	4/11/2016	19:55
4-Nitroaniline	< 771	ug/Kg	4/11/2016	19:55
4-Nitrophenol	< 771	ug/Kg	4/11/2016	19:55
Acenaphthene	< 385	ug/Kg	4/11/2016	19:55
Acenaphthylene	< 385	ug/Kg	4/11/2016	19:55
Acetophenone	< 385	ug/Kg	4/11/2016	19:55
Anthracene	< 385	ug/Kg	4/11/2016	19:55
Atrazine	< 385	ug/Kg	4/11/2016	19:55
Benzaldehyde	< 385	ug/Kg	4/11/2016	19:55
Benzo (a) anthracene	< 385	ug/Kg	4/11/2016	19:55
Benzo (a) pyrene	< 385	ug/Kg	4/11/2016	19:55
Benzo (b) fluoranthene	< 385	ug/Kg	4/11/2016	19:55
Benzo (g,h,i) perylene	< 385	ug/Kg	4/11/2016	19:55
Benzo (k) fluoranthene	< 385	ug/Kg	4/11/2016	19:55
Bis (2-chloroethoxy) methane	< 385	ug/Kg	4/11/2016	19:55
Bis (2-chloroethyl) ether	< 385	ug/Kg	4/11/2016	19:55
Bis (2-chloroisopropyl) ether	< 385	ug/Kg	4/11/2016	19:55
Bis (2-ethylhexyl) phthalate	< 385	ug/Kg	4/11/2016	19:55
Butylbenzylphthalate	< 385	ug/Kg	4/11/2016	19:55
Caprolactam	< 385	ug/Kg	4/11/2016	19:55
Carbazole	< 385	ug/Kg	4/11/2016	19:55
Chrysene	< 385	ug/Kg	4/11/2016	19:55
Dibenz (a,h) anthracene	< 385	ug/Kg	4/11/2016	19:55
Dibenzofuran	< 385	ug/Kg	4/11/2016	19:55
Diethyl phthalate	< 385	ug/Kg	4/11/2016	19:55
Dimethyl phthalate	< 771	ug/Kg	4/11/2016	19:55
Di-n-butyl phthalate	< 385	ug/Kg	4/11/2016	19:55
Di-n-octylphthalate	< 385	ug/Kg	4/11/2016	19:55

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Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-B

Lab Sample ID: 161307-10

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Fluoranthene	< 385	ug/Kg	4/11/2016	19:55
Fluorene	< 385	ug/Kg	4/11/2016	19:55
Hexachlorobenzene	< 385	ug/Kg	4/11/2016	19:55
Hexachlorobutadiene	< 385	ug/Kg	4/11/2016	19:55
Hexachlorocyclopentadiene	< 385	ug/Kg	4/11/2016	19:55
Hexachloroethane	< 385	ug/Kg	4/11/2016	19:55
Indeno (1,2,3-cd) pyrene	< 385	ug/Kg	4/11/2016	19:55
Isophorone	< 385	ug/Kg	4/11/2016	19:55
Naphthalene	< 385	ug/Kg	4/11/2016	19:55
Nitrobenzene	< 385	ug/Kg	4/11/2016	19:55
N-Nitroso-di-n-propylamine	< 385	ug/Kg	4/11/2016	19:55
N-Nitrosodiphenylamine	< 385	ug/Kg	4/11/2016	19:55
Pentachlorophenol	< 771	ug/Kg	4/11/2016	19:55
Phenanthrene	< 385	ug/Kg	4/11/2016	19:55
Phenol	< 385	ug/Kg	4/11/2016	19:55
Pyrene	< 385	ug/Kg	4/11/2016	19:55

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	70.3	26.8 - 101		4/11/2016 19:55
2-Fluorobiphenyl	43.4	34.4 - 98.8		4/11/2016 19:55
2-Fluorophenol	45.8	31.4 - 89.7		4/11/2016 19:55
Nitrobenzene-d5	42.1	37.1 - 83.6		4/11/2016 19:55
Phenol-d5	47.2	36.3 - 94.5		4/11/2016 19:55
Terphenyl-d14	74.9	51.8 - 112		4/11/2016 19:55

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 4/11/2016
Data File: B11031.D

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	0.355	mg/Kg	J	4/12/2016

Method Reference(s): EPA 9014
Preparation Date: 4/12/2016

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Lab Project ID: 161307

Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-9

Lab Sample ID: 161307-11

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 5.40	ug/Kg		4/8/2016 18:32
1,1,2,2-Tetrachloroethane	< 5.40	ug/Kg		4/8/2016 18:32
1,1,2-Trichloroethane	< 5.40	ug/Kg		4/8/2016 18:32
1,1-Dichloroethane	< 5.40	ug/Kg		4/8/2016 18:32
1,1-Dichloroethene	< 5.40	ug/Kg		4/8/2016 18:32
1,2,3-Trichlorobenzene	< 13.5	ug/Kg		4/8/2016 18:32
1,2,4-Trichlorobenzene	< 13.5	ug/Kg		4/8/2016 18:32
1,2,4-Trimethylbenzene	< 5.40	ug/Kg		4/8/2016 18:32
1,2-Dibromo-3-Chloropropane	< 27.0	ug/Kg		4/8/2016 18:32
1,2-Dibromoethane	< 5.40	ug/Kg		4/8/2016 18:32
1,2-Dichlorobenzene	< 5.40	ug/Kg		4/8/2016 18:32
1,2-Dichloroethane	< 5.40	ug/Kg		4/8/2016 18:32
1,2-Dichloropropane	< 5.40	ug/Kg		4/8/2016 18:32
1,3,5-Trimethylbenzene	< 5.40	ug/Kg		4/8/2016 18:32
1,3-Dichlorobenzene	< 5.40	ug/Kg		4/8/2016 18:32
1,4-Dichlorobenzene	< 5.40	ug/Kg		4/8/2016 18:32
1,4-dioxane	< 54.0	ug/Kg		4/8/2016 18:32
2-Butanone	< 27.0	ug/Kg		4/8/2016 18:32
2-Hexanone	< 13.5	ug/Kg		4/8/2016 18:32
4-Methyl-2-pentanone	< 13.5	ug/Kg		4/8/2016 18:32
Acetone	< 27.0	ug/Kg		4/8/2016 18:32
Benzene	< 5.40	ug/Kg		4/8/2016 18:32
Bromochloromethane	< 13.5	ug/Kg		4/8/2016 18:32
Bromodichloromethane	< 5.40	ug/Kg		4/8/2016 18:32
Bromoform	< 13.5	ug/Kg		4/8/2016 18:32
Bromomethane	< 5.40	ug/Kg		4/8/2016 18:32
Carbon disulfide	< 5.40	ug/Kg		4/8/2016 18:32
Carbon Tetrachloride	< 5.40	ug/Kg		4/8/2016 18:32
Chlorobenzene	< 5.40	ug/Kg		4/8/2016 18:32

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Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier:	CTS-9		
Lab Sample ID:	161307-11	Date Sampled:	4/5/2016
Matrix:	Soil	Date Received:	4/6/2016

Chloroethane	< 5.40	ug/Kg	4/8/2016 18:32
Chloroform	< 5.40	ug/Kg	4/8/2016 18:32
Chloromethane	< 5.40	ug/Kg	4/8/2016 18:32
cis-1,2-Dichloroethene	< 5.40	ug/Kg	4/8/2016 18:32
cis-1,3-Dichloropropene	< 5.40	ug/Kg	4/8/2016 18:32
Cyclohexane	< 27.0	ug/Kg	4/8/2016 18:32
Dibromochloromethane	< 5.40	ug/Kg	4/8/2016 18:32
Dichlorodifluoromethane	< 5.40	ug/Kg	4/8/2016 18:32
Ethylbenzene	< 5.40	ug/Kg	4/8/2016 18:32
Freon 113	< 5.40	ug/Kg	4/8/2016 18:32
Isopropylbenzene	< 5.40	ug/Kg	4/8/2016 18:32
m,p-Xylene	< 5.40	ug/Kg	4/8/2016 18:32
Methyl acetate	< 5.40	ug/Kg	4/8/2016 18:32
Methyl tert-butyl Ether	< 5.40	ug/Kg	4/8/2016 18:32
Methylcyclohexane	< 5.40	ug/Kg	4/8/2016 18:32
Methylene chloride	< 13.5	ug/Kg	4/8/2016 18:32
Naphthalene	< 13.5	ug/Kg	4/8/2016 18:32
n-Butylbenzene	< 5.40	ug/Kg	4/8/2016 18:32
n-Propylbenzene	< 5.40	ug/Kg	4/8/2016 18:32
o-Xylene	< 5.40	ug/Kg	4/8/2016 18:32
p-Isopropyltoluene	< 5.40	ug/Kg	4/8/2016 18:32
sec-Butylbenzene	< 5.40	ug/Kg	4/8/2016 18:32
Styrene	< 13.5	ug/Kg	4/8/2016 18:32
tert-Butylbenzene	< 5.40	ug/Kg	4/8/2016 18:32
Tetrachloroethene	< 5.40	ug/Kg	4/8/2016 18:32
Toluene	< 5.40	ug/Kg	4/8/2016 18:32
trans-1,2-Dichloroethene	< 5.40	ug/Kg	4/8/2016 18:32
trans-1,3-Dichloropropene	< 5.40	ug/Kg	4/8/2016 18:32
Trichloroethene	< 5.40	ug/Kg	4/8/2016 18:32
Trichlorofluoromethane	< 5.40	ug/Kg	4/8/2016 18:32
Vinyl chloride	< 5.40	ug/Kg	4/8/2016 18:32

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Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-9

Lab Sample ID: 161307-11

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	108	85.4 - 122		4/8/2016	18:32
4-Bromofluorobenzene	96.0	81.1 - 115		4/8/2016	18:32
Pentafluorobenzene	100	90.7 - 109		4/8/2016	18:32
Toluene-D8	95.0	88.5 - 110		4/8/2016	18:32

Method Reference(s): EPA 8260C
EPA 5035

Data File: x31566.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-C

Lab Sample ID: 161307-12

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	4.35	mg/Kg		4/8/2016 17:30
Barium	98.4	mg/Kg		4/8/2016 17:30
Beryllium	0.815	mg/Kg		4/8/2016 17:30
Cadmium	< 0.338	mg/Kg		4/8/2016 17:30
Chromium	23.7	mg/Kg		4/8/2016 17:30
Copper	12.5	mg/Kg		4/8/2016 17:30
Lead	18.7	mg/Kg		4/8/2016 17:30
Manganese	584	mg/Kg	DM	4/8/2016 17:30
Nickel	19.3	mg/Kg		4/8/2016 17:30
Selenium	< 0.676	mg/Kg		4/11/2016 13:23
Silver	< 0.676	mg/Kg		4/8/2016 17:30
Zinc	85.0	mg/Kg		4/8/2016 17:30

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 4/7/2016
Data File: 040816b

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	0.0615	mg/Kg		4/8/2016 12:06

Method Reference(s): EPA 7471B
Preparation Date: 4/7/2016
Data File: Hg160408A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0387	mg/Kg		4/10/2016 17:36
PCB-1221	< 0.0387	mg/Kg		4/10/2016 17:36
PCB-1232	< 0.0387	mg/Kg		4/10/2016 17:36
PCB-1242	< 0.0387	mg/Kg		4/10/2016 17:36
PCB-1248	< 0.0387	mg/Kg		4/10/2016 17:36

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Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-C

Lab Sample ID: 161307-12

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

PCB-1254	< 0.0387	mg/Kg	4/10/2016 17:36
PCB-1260	< 0.0387	mg/Kg	4/10/2016 17:36
PCB-1262	< 0.0387	mg/Kg	4/10/2016 17:36
PCB-1268	< 0.0387	mg/Kg	4/10/2016 17:36

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	67.7	0.53 - 137		4/10/2016 17:36
Tetrachloro-m-xylene	49.5	0 - 138		4/10/2016 17:36

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 4/7/2016

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.87	ug/Kg		4/7/2016 17:08
4,4-DDE	< 3.87	ug/Kg		4/7/2016 17:08
4,4-DDT	< 3.87	ug/Kg		4/7/2016 17:08
Aldrin	< 3.87	ug/Kg		4/7/2016 17:08
alpha-BHC	< 3.87	ug/Kg		4/7/2016 17:08
beta-BHC	< 3.87	ug/Kg		4/7/2016 17:08
cis-Chlordane	< 3.87	ug/Kg		4/7/2016 17:08
delta-BHC	< 3.87	ug/Kg		4/7/2016 17:08
Dieldrin	< 3.87	ug/Kg		4/7/2016 17:08
Endosulfan I	< 3.87	ug/Kg		4/7/2016 17:08
Endosulfan II	< 3.87	ug/Kg		4/7/2016 17:08
Endosulfan Sulfate	< 3.87	ug/Kg		4/7/2016 17:08
Endrin	< 3.87	ug/Kg		4/7/2016 17:08
Endrin Aldehyde	< 3.87	ug/Kg		4/7/2016 17:08
Endrin Ketone	< 3.87	ug/Kg		4/7/2016 17:08
gamma-BHC (Lindane)	< 3.87	ug/Kg		4/7/2016 17:08
Heptachlor	< 3.87	ug/Kg		4/7/2016 17:08
Heptachlor Epoxide	< 3.87	ug/Kg		4/7/2016 17:08
Methoxychlor	< 3.87	ug/Kg		4/7/2016 17:08
Toxaphene	< 38.7	ug/Kg		4/7/2016 17:08

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Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-C

Lab Sample ID: 161307-12

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

trans-Chlordane < 3.87 ug/Kg 4/7/2016 17:08

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
Decachlorobiphenyl (1)	64.8	9.5 - 93.3		4/7/2016 17:08
Tetrachloro-m-xylene (1)	34.3	13.2 - 96.3		4/7/2016 17:08

Method Reference(s): EPA 8081B

EPA 3550C

Preparation Date: 4/7/2016

Semi-Volatile Organics (Acid/Base Neutrals)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,1-Biphenyl	< 389	ug/Kg		4/11/2016 20:24
1,2,4,5-Tetrachlorobenzene	< 389	ug/Kg		4/11/2016 20:24
1,2,4-Trichlorobenzene	< 389	ug/Kg		4/11/2016 20:24
1,2-Dichlorobenzene	< 389	ug/Kg		4/11/2016 20:24
1,3-Dichlorobenzene	< 389	ug/Kg		4/11/2016 20:24
1,4-Dichlorobenzene	< 389	ug/Kg		4/11/2016 20:24
2,3,4,6-Tetrachlorophenol	< 389	ug/Kg		4/11/2016 20:24
2,4,5-Trichlorophenol	< 778	ug/Kg		4/11/2016 20:24
2,4,6-Trichlorophenol	< 389	ug/Kg		4/11/2016 20:24
2,4-Dichlorophenol	< 389	ug/Kg		4/11/2016 20:24
2,4-Dimethylphenol	< 389	ug/Kg		4/11/2016 20:24
2,4-Dinitrophenol	< 778	ug/Kg		4/11/2016 20:24
2,4-Dinitrotoluene	< 389	ug/Kg		4/11/2016 20:24
2,6-Dinitrotoluene	< 389	ug/Kg		4/11/2016 20:24
2-Chloronaphthalene	< 389	ug/Kg		4/11/2016 20:24
2-Chlorophenol	< 389	ug/Kg		4/11/2016 20:24
2-Methylnaphthalene	< 389	ug/Kg		4/11/2016 20:24
2-Methylphenol	< 389	ug/Kg		4/11/2016 20:24
2-Nitroaniline	< 778	ug/Kg		4/11/2016 20:24
2-Nitrophenol	< 389	ug/Kg		4/11/2016 20:24
3&4-Methylphenol	< 389	ug/Kg		4/11/2016 20:24
3,3'-Dichlorobenzidine	< 389	ug/Kg		4/11/2016 20:24
3-Nitroaniline	< 778	ug/Kg		4/11/2016 20:24

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Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier:	CTS-C		
Lab Sample ID:	161307-12	Date Sampled:	4/5/2016
Matrix:	Soil	Date Received:	4/6/2016

4,6-Dinitro-2-methylphenol	< 778	ug/Kg	4/11/2016 20:24
4-Bromophenyl phenyl ether	< 389	ug/Kg	4/11/2016 20:24
4-Chloro-3-methylphenol	< 389	ug/Kg	4/11/2016 20:24
4-Chloroaniline	< 389	ug/Kg	4/11/2016 20:24
4-Chlorophenyl phenyl ether	< 389	ug/Kg	4/11/2016 20:24
4-Nitroaniline	< 778	ug/Kg	4/11/2016 20:24
4-Nitrophenol	< 778	ug/Kg	4/11/2016 20:24
Acenaphthene	< 389	ug/Kg	4/11/2016 20:24
Acenaphthylene	< 389	ug/Kg	4/11/2016 20:24
Acetophenone	< 389	ug/Kg	4/11/2016 20:24
Anthracene	< 389	ug/Kg	4/11/2016 20:24
Atrazine	< 389	ug/Kg	4/11/2016 20:24
Benzaldehyde	< 389	ug/Kg	4/11/2016 20:24
Benzo (a) anthracene	< 389	ug/Kg	4/11/2016 20:24
Benzo (a) pyrene	< 389	ug/Kg	4/11/2016 20:24
Benzo (b) fluoranthene	< 389	ug/Kg	4/11/2016 20:24
Benzo (g,h,i) perylene	< 389	ug/Kg	4/11/2016 20:24
Benzo (k) fluoranthene	< 389	ug/Kg	4/11/2016 20:24
Bis (2-chloroethoxy) methane	< 389	ug/Kg	4/11/2016 20:24
Bis (2-chloroethyl) ether	< 389	ug/Kg	4/11/2016 20:24
Bis (2-chloroisopropyl) ether	< 389	ug/Kg	4/11/2016 20:24
Bis (2-ethylhexyl) phthalate	< 389	ug/Kg	4/11/2016 20:24
Butylbenzylphthalate	< 389	ug/Kg	4/11/2016 20:24
Caprolactam	< 389	ug/Kg	4/11/2016 20:24
Carbazole	< 389	ug/Kg	4/11/2016 20:24
Chrysene	< 389	ug/Kg	4/11/2016 20:24
Dibenz (a,h) anthracene	< 389	ug/Kg	4/11/2016 20:24
Dibenzofuran	< 389	ug/Kg	4/11/2016 20:24
Diethyl phthalate	< 389	ug/Kg	4/11/2016 20:24
Dimethyl phthalate	< 778	ug/Kg	4/11/2016 20:24
Di-n-butyl phthalate	< 389	ug/Kg	4/11/2016 20:24
Di-n-octylphthalate	< 389	ug/Kg	4/11/2016 20:24

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Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-C

Lab Sample ID: 161307-12

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Fluoranthene	< 389	ug/Kg	4/11/2016	20:24
Fluorene	< 389	ug/Kg	4/11/2016	20:24
Hexachlorobenzene	< 389	ug/Kg	4/11/2016	20:24
Hexachlorobutadiene	< 389	ug/Kg	4/11/2016	20:24
Hexachlorocyclopentadiene	< 389	ug/Kg	4/11/2016	20:24
Hexachloroethane	< 389	ug/Kg	4/11/2016	20:24
Indeno (1,2,3-cd) pyrene	< 389	ug/Kg	4/11/2016	20:24
Isophorone	< 389	ug/Kg	4/11/2016	20:24
Naphthalene	< 389	ug/Kg	4/11/2016	20:24
Nitrobenzene	< 389	ug/Kg	4/11/2016	20:24
N-Nitroso-di-n-propylamine	< 389	ug/Kg	4/11/2016	20:24
N-Nitrosodiphenylamine	< 389	ug/Kg	4/11/2016	20:24
Pentachlorophenol	< 778	ug/Kg	4/11/2016	20:24
Phenanthrene	< 389	ug/Kg	4/11/2016	20:24
Phenol	< 389	ug/Kg	4/11/2016	20:24
Pyrene	< 389	ug/Kg	4/11/2016	20:24

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	71.7	26.8 - 101		4/11/2016 20:24
2-Fluorobiphenyl	44.9	34.4 - 98.8		4/11/2016 20:24
2-Fluorophenol	44.9	31.4 - 89.7		4/11/2016 20:24
Nitrobenzene-d5	43.1	37.1 - 83.6		4/11/2016 20:24
Phenol-d5	45.6	36.3 - 94.5		4/11/2016 20:24
Terphenyl-d14	73.3	51.8 - 112		4/11/2016 20:24

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 4/11/2016
Data File: B11032.D

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	0.258	mg/Kg	J	4/12/2016

Method Reference(s): EPA 9014
Preparation Date: 4/12/2016

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Method Blank Report

Client: Iyer Environmental Group
Project Reference: Pinto Lockport Topsoil
Lab Project ID: 161307
SDG #: 1307-01
Matrix: Soil

Total Cyanide

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Cyanide, Total	<0.392	mg/Kg		4/12/2016
Method Reference(s):	EPA 9014			
Preparation Date:	4/12/2016			
QC Batch ID:	QC160412stcn			
QC Number:	1			

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Report Prepared Tuesday, April 12, 2016



QC Report for Sample Spike and Sample Duplicate

Client: Iyer Environmental Group
Project Reference: Pinto Lockport Topsoil

SDG #: 1307-01
Lab Project ID: 161307

Lab Sample ID: 161307-12
Sample Identifier: CTS-C
Matrix: Soil

Date Sampled: 4/5/2016
Date Received: 4/6/2016

Total Cyanide

<u>Analyte</u>	<u>Sample Results</u>	<u>Result Units</u>	<u>Spike Added</u>	<u>Spike Result</u>	<u>Spike % Recovery</u>	<u>% Rec Limits</u>	<u>Spike Outliers</u>	<u>Duplicate Result</u>	<u>Relative % Difference</u>	<u>RPD Limit</u>	<u>RPD Outliers</u>	<u>Date Analyzed</u>
Cyanide, Total	0.258	mg/Kg	7.89	7.31	89.4	80 - 120		0.428	NC	20		4/12/2016
Method Reference(s):		EPA 9014										
Preparation Date:		4/12/2016										
QC Batch ID:		QC160412stcm										

NC = Not Calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added.

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Report Prepared Tuesday, April 12, 2016



Method Blank Report

Client: Iyer Environmental Group
Project Reference: Pinto Lockport Topsoil
Lab Project ID: 161307
SDG #: 1307-01
Matrix: Soil

PCBs

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
PCB-1016	<0.0286	mg/Kg		4/10/2016 16:03
PCB-1221	<0.0286	mg/Kg		4/10/2016 16:03
PCB-1232	<0.0286	mg/Kg		4/10/2016 16:03
PCB-1242	<0.0286	mg/Kg		4/10/2016 16:03
PCB-1248	<0.0286	mg/Kg		4/10/2016 16:03
PCB-1254	<0.0286	mg/Kg		4/10/2016 16:03
PCB-1260	<0.0286	mg/Kg		4/10/2016 16:03
PCB-1262	<0.0286	mg/Kg		4/10/2016 16:03
PCB-1268	<0.0286	mg/Kg		4/10/2016 16:03

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
Decachlorobiphenyl	52.0	0.53 - 137		4/10/2016 16:03
Tetrachloro-m-xylene	41.2	0 - 138		4/10/2016 16:03

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 4/7/2016
QC Batch ID: QC160407PCBSLL
QC Number: 1

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QC Report for Laboratory Control Sample

Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Lab Project ID: 161307

SDG #: 1307-01

Matrix: Soil

PCBs

<u>Analyte</u>	<u>Spike Added</u>	<u>Spike Units</u>	<u>LCS Result</u>	<u>LCS % Recovery</u>	<u>% Rec Limits</u>	<u>LCS Outliers</u>	<u>Date Analyzed</u>
PCB-1016/1260	0.143	mg/Kg	0.0498	34.8	17.3 - 111		4/10/2016
Method Reference(s):							
			EPA 8082A				
			EPA 3550C				
Preparation Date:			4/7/2016				
QC Number:	1						
QC Batch ID:	QC160407PCBSLL						

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Method Blank Report

Client: Iyer Environmental Group
Project Reference: Pinto Lockport Topsoil
Lab Project ID: 161307
SDG #: 1307-01
Matrix: Soil

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,1,1-Trichloroethane	<2.00	ug/Kg		4/8/2016 14:54
1,1,2,2-Tetrachloroethane	<2.00	ug/Kg		4/8/2016 14:54
1,1,2-Trichloroethane	<2.00	ug/Kg		4/8/2016 14:54
1,1-Dichloroethane	<2.00	ug/Kg		4/8/2016 14:54
1,1-Dichloroethene	<2.00	ug/Kg		4/8/2016 14:54
1,2,3-Trichlorobenzene	<5.00	ug/Kg		4/8/2016 14:54
1,2,4-Trichlorobenzene	<5.00	ug/Kg		4/8/2016 14:54
1,2,4-Trimethylbenzene	<2.00	ug/Kg		4/8/2016 14:54
1,2-Dibromo-3-Chloropropane	<10.0	ug/Kg		4/8/2016 14:54
1,2-Dibromoethane	<2.00	ug/Kg		4/8/2016 14:54
1,2-Dichlorobenzene	<2.00	ug/Kg		4/8/2016 14:54
1,2-Dichloroethane	<2.00	ug/Kg		4/8/2016 14:54
1,2-Dichloropropane	<2.00	ug/Kg		4/8/2016 14:54
1,3,5-Trimethylbenzene	<2.00	ug/Kg		4/8/2016 14:54
1,3-Dichlorobenzene	<2.00	ug/Kg		4/8/2016 14:54
1,4-Dichlorobenzene	<2.00	ug/Kg		4/8/2016 14:54
1,4-dioxane	<20.0	ug/Kg		4/8/2016 14:54
2-Butanone	<10.0	ug/Kg		4/8/2016 14:54
2-Hexanone	<5.00	ug/Kg		4/8/2016 14:54
4-Methyl-2-pentanone	<5.00	ug/Kg		4/8/2016 14:54
Acetone	<10.0	ug/Kg		4/8/2016 14:54
Benzene	<2.00	ug/Kg		4/8/2016 14:54
Bromochloromethane	<5.00	ug/Kg		4/8/2016 14:54
Bromodichloromethane	<2.00	ug/Kg		4/8/2016 14:54
Bromoform	<5.00	ug/Kg		4/8/2016 14:54
Bromomethane	<2.00	ug/Kg		4/8/2016 14:54
Carbon disulfide	<2.00	ug/Kg		4/8/2016 14:54
Carbon Tetrachloride	<2.00	ug/Kg		4/8/2016 14:54

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Method Blank Report

Client: Iyer Environmental Group
Project Reference: Pinto Lockport Topsoil
Lab Project ID: 161307
SDG #: 1307-01
Matrix: Soil

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Chlorobenzene	<2.00	ug/Kg		4/8/2016 14:54
Chloroethane	<2.00	ug/Kg		4/8/2016 14:54
Chloroform	<2.00	ug/Kg		4/8/2016 14:54
Chloromethane	<2.00	ug/Kg		4/8/2016 14:54
cis-1,2-Dichloroethene	<2.00	ug/Kg		4/8/2016 14:54
cis-1,3-Dichloropropene	<2.00	ug/Kg		4/8/2016 14:54
Cyclohexane	<10.0	ug/Kg		4/8/2016 14:54
Dibromochloromethane	<2.00	ug/Kg		4/8/2016 14:54
Dichlorodifluoromethane	<2.00	ug/Kg		4/8/2016 14:54
Ethylbenzene	<2.00	ug/Kg		4/8/2016 14:54
Freon 113	<2.00	ug/Kg		4/8/2016 14:54
Isopropylbenzene	<2.00	ug/Kg		4/8/2016 14:54
m,p-Xylene	<2.00	ug/Kg		4/8/2016 14:54
Methyl acetate	<2.00	ug/Kg		4/8/2016 14:54
Methyl tert-butyl Ether	<2.00	ug/Kg		4/8/2016 14:54
Methylcyclohexane	<2.00	ug/Kg		4/8/2016 14:54
Methylene chloride	<5.00	ug/Kg		4/8/2016 14:54
Naphthalene	<5.00	ug/Kg		4/8/2016 14:54
n-Butylbenzene	<2.00	ug/Kg		4/8/2016 14:54
n-Propylbenzene	<2.00	ug/Kg		4/8/2016 14:54
o-Xylene	<2.00	ug/Kg		4/8/2016 14:54
p-Isopropyltoluene	<2.00	ug/Kg		4/8/2016 14:54
sec-Butylbenzene	<2.00	ug/Kg		4/8/2016 14:54
Styrene	<5.00	ug/Kg		4/8/2016 14:54
tert-Butylbenzene	<2.00	ug/Kg		4/8/2016 14:54
Tetrachloroethene	<2.00	ug/Kg		4/8/2016 14:54
Toluene	<2.00	ug/Kg		4/8/2016 14:54
trans-1,2-Dichloroethene	<2.00	ug/Kg		4/8/2016 14:54

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Report Prepared Tuesday, April 12, 2016



Method Blank Report

Client: Iyer Environmental Group
Project Reference: Pinto Lockport Topsoil
Lab Project ID: 161307
SDG #: 1307-01
Matrix: Soil

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>	
trans-1,3-Dichloropropene	<2.00	ug/Kg		4/8/2016	14:54
Trichloroethene	<2.00	ug/Kg		4/8/2016	14:54
Trichlorofluoromethane	<2.00	ug/Kg		4/8/2016	14:54
Vinyl chloride	<2.00	ug/Kg		4/8/2016	14:54
<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>	
1,2-Dichloroethane-d4	107	85.4 - 122		4/8/2016	14:54
4-Bromofluorobenzene	97.5	81.1 - 115		4/8/2016	14:54
Pentafluorobenzene	102	90.7 - 109		4/8/2016	14:54
Toluene-D8	96.1	88.5 - 110		4/8/2016	14:54

Method Reference(s): EPA 8260C
EPA 5035
Data File: x31557.D
QC Batch ID: voas040816
QC Number: 1

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Report Prepared Tuesday, April 12, 2016



QC Report for Laboratory Control Sample

Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Lab Project ID: 161307

SDG #: 1307-01

Matrix: Soil

Volatile Organics

<u>Analyte</u>	<u>Spike Added</u>	<u>Spike Units</u>	<u>LCS Result</u>	<u>LCS % Recovery</u>	<u>% Rec Limits</u>	<u>LCS Outliers</u>	<u>Date Analyzed</u>
1,1,1-Trichloroethane	20.0	ug/Kg	19.7	98.7	82.9 - 118		4/8/2016
1,1,2,2-Tetrachloroethane	20.0	ug/Kg	19.3	96.6	75.1 - 121		4/8/2016
1,1,2-Trichloroethane	20.0	ug/Kg	18.7	93.7	83.5 - 108		4/8/2016
1,1-Dichloroethane	20.0	ug/Kg	19.3	96.3	83.1 - 110		4/8/2016
1,1-Dichloroethene	20.0	ug/Kg	20.5	102	76.2 - 129		4/8/2016
1,2-Dichlorobenzene	20.0	ug/Kg	19.5	97.5	80.2 - 115		4/8/2016
1,2-Dichloroethane	20.0	ug/Kg	20.7	104	82.5 - 120		4/8/2016
1,2-Dichloropropane	20.0	ug/Kg	18.8	93.8	81.4 - 106		4/8/2016
1,3-Dichlorobenzene	20.0	ug/Kg	19.0	95.0	76.1 - 113		4/8/2016
1,4-Dichlorobenzene	20.0	ug/Kg	18.7	93.6	77.8 - 111		4/8/2016
Benzene	20.0	ug/Kg	20.0	100	88.9 - 113		4/8/2016
Bromodichloromethane	20.0	ug/Kg	19.8	99.1	83.3 - 115		4/8/2016
Bromoform	20.0	ug/Kg	15.7	78.7	60.4 - 109		4/8/2016
Bromomethane	20.0	ug/Kg	23.1	115	46 - 156		4/8/2016
Carbon Tetrachloride	20.0	ug/Kg	19.4	97.2	80.1 - 121		4/8/2016
Chlorobenzene	20.0	ug/Kg	19.7	98.3	84.2 - 108		4/8/2016

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QC Report for Laboratory Control Sample

Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Lab Project ID: 161307

SDG #: 1307-01

Matrix: Soil

Volatile Organics

<u>Analyte</u>	<u>Spike Added</u>	<u>Spike Units</u>	<u>LCS Result</u>	<u>LCS % Recovery</u>	<u>% Rec Limits</u>	<u>LCS Outliers</u>	<u>Date Analyzed</u>
Chloroethane	20.0	ug/Kg	24.1	120	57 - 159		4/8/2016
Chloroform	20.0	ug/Kg	20.5	103	85.5 - 116		4/8/2016
Chloromethane	20.0	ug/Kg	20.4	102	49.5 - 158		4/8/2016
cis-1,3-Dichloropropene	20.0	ug/Kg	19.9	99.3	84.5 - 131		4/8/2016
Dibromochloromethane	20.0	ug/Kg	18.9	94.5	74.7 - 113		4/8/2016
Ethylbenzene	20.0	ug/Kg	19.7	98.6	86.1 - 112		4/8/2016
Methylene chloride	20.0	ug/Kg	20.6	103	73.7 - 127		4/8/2016
Tetrachloroethene	20.0	ug/Kg	19.6	98.1	76.2 - 126		4/8/2016
Toluene	20.0	ug/Kg	19.8	98.9	84.4 - 115		4/8/2016
trans-1,2-Dichloroethene	20.0	ug/Kg	21.1	106	76 - 130		4/8/2016
trans-1,3-Dichloropropene	20.0	ug/Kg	18.4	91.9	75.5 - 120		4/8/2016
Trichloroethene	20.0	ug/Kg	20.4	102	88.6 - 112		4/8/2016
Trichlorofluoromethane	20.0	ug/Kg	20.7	104	68.4 - 137		4/8/2016
Vinyl chloride	20.0	ug/Kg	21.0	105	65.4 - 146		4/8/2016

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QC Report for Laboratory Control Sample

Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Lab Project ID: 161307

SDG #: 1307-01

Matrix: Soil

Volatile Organics

<u>Analyte</u>	<u>Method Reference(s)</u>	<u>Spike Added</u>	<u>Spike Units</u>	<u>LCS Result</u>	<u>LCS % Recovery</u>	<u>% Rec Limits</u>	<u>LCS Outliers</u>	<u>Date Analyzed</u>
	EPA 8260C							
	EPA 5035							
	Data File: X31556.D							
	QC Number: 1							
	QC Batch ID: voas040816							

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Method Blank Report

Client: Iyer Environmental Group
Project Reference: Pinto Lockport Topsoil
Lab Project ID: 161307
SDG #: 1307-01
Matrix: Soil

Semi-Volatile Organics (Acid/Base Neutrals)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>	
1,1-Biphenyl	<286	ug/Kg		4/11/2016	17:02
1,2,4,5-Tetrachlorobenzene	<286	ug/Kg		4/11/2016	17:02
1,2,4-Trichlorobenzene	<286	ug/Kg		4/11/2016	17:02
1,2-Dichlorobenzene	<286	ug/Kg		4/11/2016	17:02
1,3-Dichlorobenzene	<286	ug/Kg		4/11/2016	17:02
1,4-Dichlorobenzene	<286	ug/Kg		4/11/2016	17:02
2,3,4,6-Tetrachlorophenol	<286	ug/Kg		4/11/2016	17:02
2,4,5-Trichlorophenol	<571	ug/Kg		4/11/2016	17:02
2,4,6-Trichlorophenol	<286	ug/Kg		4/11/2016	17:02
2,4-Dichlorophenol	<286	ug/Kg		4/11/2016	17:02
2,4-Dimethylphenol	<286	ug/Kg		4/11/2016	17:02
2,4-Dinitrophenol	<571	ug/Kg		4/11/2016	17:02
2,4-Dinitrotoluene	<286	ug/Kg		4/11/2016	17:02
2,6-Dinitrotoluene	<286	ug/Kg		4/11/2016	17:02
2-Chloronaphthalene	<286	ug/Kg		4/11/2016	17:02
2-Chlorophenol	<286	ug/Kg		4/11/2016	17:02
2-Methylnaphthalene	<286	ug/Kg		4/11/2016	17:02
2-Methylphenol	<286	ug/Kg		4/11/2016	17:02
2-Nitroaniline	<571	ug/Kg		4/11/2016	17:02
2-Nitrophenol	<286	ug/Kg		4/11/2016	17:02
3&4-Methylphenol	<286	ug/Kg		4/11/2016	17:02
3,3'-Dichlorobenzidine	<286	ug/Kg		4/11/2016	17:02
3-Nitroaniline	<571	ug/Kg		4/11/2016	17:02
4,6-Dinitro-2-methylphenol	<571	ug/Kg		4/11/2016	17:02
4-Bromophenyl phenyl ether	<286	ug/Kg		4/11/2016	17:02
4-Chloro-3-methylphenol	<286	ug/Kg		4/11/2016	17:02
4-Chloroaniline	<286	ug/Kg		4/11/2016	17:02
4-Chlorophenyl phenyl ether	<286	ug/Kg		4/11/2016	17:02

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Method Blank Report

Client: Iyer Environmental Group
Project Reference: Pinto Lockport Topsoil
Lab Project ID: 161307
SDG #: 1307-01
Matrix: Soil

Semi-Volatile Organics (Acid/Base Neutrals)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
4-Nitroaniline	<571	ug/Kg		4/11/2016 17:02
4-Nitrophenol	<571	ug/Kg		4/11/2016 17:02
Acenaphthene	<286	ug/Kg		4/11/2016 17:02
Acenaphthylene	<286	ug/Kg		4/11/2016 17:02
Acetophenone	<286	ug/Kg		4/11/2016 17:02
Anthracene	<286	ug/Kg		4/11/2016 17:02
Atrazine	<286	ug/Kg		4/11/2016 17:02
Benzaldehyde	<286	ug/Kg		4/11/2016 17:02
Benzo (a) anthracene	<286	ug/Kg		4/11/2016 17:02
Benzo (a) pyrene	<286	ug/Kg		4/11/2016 17:02
Benzo (b) fluoranthene	<286	ug/Kg		4/11/2016 17:02
Benzo (g,h,i) perylene	<286	ug/Kg		4/11/2016 17:02
Benzo (k) fluoranthene	<286	ug/Kg		4/11/2016 17:02
Bis (2-chloroethoxy) methane	<286	ug/Kg		4/11/2016 17:02
Bis (2-chloroethyl) ether	<286	ug/Kg		4/11/2016 17:02
Bis (2-chloroisopropyl) ether	<286	ug/Kg		4/11/2016 17:02
Bis (2-ethylhexyl) phthalate	<286	ug/Kg		4/11/2016 17:02
Butylbenzylphthalate	<286	ug/Kg		4/11/2016 17:02
Caprolactam	<286	ug/Kg		4/11/2016 17:02
Carbazole	<286	ug/Kg		4/11/2016 17:02
Chrysene	<286	ug/Kg		4/11/2016 17:02
Dibenz (a,h) anthracene	<286	ug/Kg		4/11/2016 17:02
Dibenzofuran	<286	ug/Kg		4/11/2016 17:02
Diethyl phthalate	<286	ug/Kg		4/11/2016 17:02
Dimethyl phthalate	<571	ug/Kg		4/11/2016 17:02
Di-n-butyl phthalate	<286	ug/Kg		4/11/2016 17:02
Di-n-octylphthalate	<286	ug/Kg		4/11/2016 17:02
Fluoranthene	<286	ug/Kg		4/11/2016 17:02

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Method Blank Report

Client: Iyer Environmental Group
Project Reference: Pinto Lockport Topsoil
Lab Project ID: 161307
SDG #: 1307-01
Matrix: Soil

Semi-Volatile Organics (Acid/Base Neutrals)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>	
Fluorene	<286	ug/Kg		4/11/2016	17:02
Hexachlorobenzene	<286	ug/Kg		4/11/2016	17:02
Hexachlorobutadiene	<286	ug/Kg		4/11/2016	17:02
Hexachlorocyclopentadiene	<286	ug/Kg		4/11/2016	17:02
Hexachloroethane	<286	ug/Kg		4/11/2016	17:02
Indeno (1,2,3-cd) pyrene	<286	ug/Kg		4/11/2016	17:02
Isophorone	<286	ug/Kg		4/11/2016	17:02
Naphthalene	<286	ug/Kg		4/11/2016	17:02
Nitrobenzene	<286	ug/Kg		4/11/2016	17:02
N-Nitroso-di-n-propylamine	<286	ug/Kg		4/11/2016	17:02
N-Nitrosodiphenylamine	<286	ug/Kg		4/11/2016	17:02
Pentachlorophenol	<571	ug/Kg		4/11/2016	17:02
Phenanthrene	<286	ug/Kg		4/11/2016	17:02
Phenol	<286	ug/Kg		4/11/2016	17:02
Pyrene	<286	ug/Kg		4/11/2016	17:02

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>	
2,4,6-Tribromophenol	62.4	26.8 - 101		4/11/2016	17:02
2-Fluorobiphenyl	57.0	34.4 - 98.8		4/11/2016	17:02
2-Fluorophenol	53.6	31.4 - 89.7		4/11/2016	17:02
Nitrobenzene-d5	51.4	37.1 - 83.6		4/11/2016	17:02
Phenol-d5	57.4	36.3 - 94.5		4/11/2016	17:02
Terphenyl-d14	78.7	51.8 - 112		4/11/2016	17:02

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 4/11/2016
Data File: B11025.D
QC Batch ID: QC160411ABNS
QC Number: 1

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QC Report for Laboratory Control Sample

Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Lab Project ID: 161307

SDG #: 1307-01

Matrix: Soil

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
1,2,4-Trichlorobenzene	1430	ug/Kg	662	46.3	40.5 - 78.1		4/11/2016
1,4-Dichlorobenzene	1430	ug/Kg	601	42.1	37.2 - 71.5		4/11/2016
2,4-Dinitrotoluene	1430	ug/Kg	834	58.4	48.4 - 91.8		4/11/2016
2-Chlorophenol	2140	ug/Kg	1140	53.4	44 - 87.5		4/11/2016
4-Chloro-3-methylphenol	2140	ug/Kg	1300	60.4	49.5 - 96.7		4/11/2016
4-Nitrophenol	2140	ug/Kg	1530	71.5	39.6 - 96.8		4/11/2016
Acenaphthene	1430	ug/Kg	764	53.5	45.5 - 87.8		4/11/2016
N-Nitroso-di-n-propylamine	1430	ug/Kg	717	50.2	43 - 84.7		4/11/2016
Pentachlorophenol	2140	ug/Kg	1760	82.0	21.2 - 109		4/11/2016
Phenol	2140	ug/Kg	1200	56.0	44.7 - 88.4		4/11/2016
Pyrene	1430	ug/Kg	1060	73.9	54.9 - 99.7		4/11/2016

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 4/11/2016
Data File: B11026.D
QC Number: 1
QC Batch ID: QC160411ABNS

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Method Blank Report

Client: Iyer Environmental Group
Project Reference: Pinto Lockport Topsoil
Lab Project ID: 161307
SDG #: 1307-01
Matrix: Soil

Chlorinated Pesticides

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
4,4-DDD	<2.86	ug/Kg		4/7/2016 16:00
4,4-DDE	<2.86	ug/Kg		4/7/2016 16:00
4,4-DDT	<2.86	ug/Kg		4/7/2016 16:00
Aldrin	<2.86	ug/Kg		4/7/2016 16:00
alpha-BHC	<2.86	ug/Kg		4/7/2016 16:00
beta-BHC	<2.86	ug/Kg		4/7/2016 16:00
cis-Chlordane	<2.86	ug/Kg		4/7/2016 16:00
delta-BHC	<2.86	ug/Kg		4/7/2016 16:00
Dieldrin	<2.86	ug/Kg		4/7/2016 16:00
Endosulfan I	<2.86	ug/Kg		4/7/2016 16:00
Endosulfan II	<2.86	ug/Kg		4/7/2016 16:00
Endosulfan Sulfate	<2.86	ug/Kg		4/7/2016 16:00
Endrin	<2.86	ug/Kg		4/7/2016 16:00
Endrin Aldehyde	<2.86	ug/Kg		4/7/2016 16:00
Endrin Ketone	<2.86	ug/Kg		4/7/2016 16:00
gamma-BHC (Lindane)	<2.86	ug/Kg		4/7/2016 16:00
Heptachlor	<2.86	ug/Kg		4/7/2016 16:00
Heptachlor Epoxide	<2.86	ug/Kg		4/7/2016 16:00
Methoxychlor	<2.86	ug/Kg		4/7/2016 16:00
Toxaphene	<28.6	ug/Kg		4/7/2016 16:00
trans-Chlordane	<2.86	ug/Kg		4/7/2016 16:00

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
Decachlorobiphenyl (1)	56.6	9.5 - 93.3		4/7/2016 16:00
Tetrachloro-m-xylene (1)	31.3	13.2 - 96.3		4/7/2016 16:00

Method Reference(s): EPA 8081B
EPA 3550C
Preparation Date: 4/7/2016
QC Batch ID: QC160407PESTSS
QC Number: 1

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Report Prepared Tuesday, April 12, 2016



QC Report for Laboratory Control Sample

Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Lab Project ID: 161307

SDG #: 1307-01

Matrix: Soil

Chlorinated Pesticides

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
4,4-DDD (1)	14.3	ug/Kg	7.86	55.0	5.2 - 108		4/7/2016
4,4-DDE (1)	14.3	ug/Kg	8.53	59.7	12 - 100		4/7/2016
4,4-DDT (1)	14.3	ug/Kg	8.39	58.7	9.5 - 93.3		4/7/2016
Aldrin (1)	14.3	ug/Kg	6.66	46.6	8.2 - 86.2		4/7/2016
alpha-BHC (1)	14.3	ug/Kg	5.75	40.3	2.5 - 78.7		4/7/2016
beta-BHC (1)	14.3	ug/Kg	7.10	49.7	10.7 - 87.7		4/7/2016
cis-Chlordane (1)	14.3	ug/Kg	7.98	55.9	13.2 - 96.3		4/7/2016
delta-BHC (1)	14.3	ug/Kg	5.46	38.2	7.2 - 81.2		4/7/2016
Dieldrin (1)	14.3	ug/Kg	7.70	53.9	10.8 - 92.3		4/7/2016
Endosulfan I (1)	14.3	ug/Kg	8.03	56.2	9.4 - 97.2		4/7/2016
Endosulfan II (1)	14.3	ug/Kg	7.20	50.4	11.8 - 92.4		4/7/2016
Endosulfan Sulfate (1)	14.3	ug/Kg	6.34	44.4	5.8 - 101		4/7/2016
Endrin (1)	14.3	ug/Kg	7.90	55.3	11.3 - 102		4/7/2016
Endrin Aldehyde (1)	14.3	ug/Kg	5.39	37.7	8.1 - 74		4/7/2016
Endrin Ketone (1)	14.3	ug/Kg	7.29	51.0	7.9 - 99.2		4/7/2016
gamma-BHC (Lindane) (1)	14.3	ug/Kg	6.01	42.1	5 - 82.9		4/7/2016

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QC Report for Laboratory Control Sample

Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Lab Project ID: 161307

SDG #: 1307-01

Matrix: Soil

Chlorinated Pesticides

<u>Analyte</u>	<u>Spike Added</u>	<u>Spike Units</u>	<u>LCS Result</u>	<u>LCS % Recovery</u>	<u>% Rec Limits</u>	<u>LCS Outliers</u>	<u>Date Analyzed</u>
Heptrachlor (1)	14.3	ug/Kg	7.52	52.6	9.5 - 87.1		4/7/2016
Heptrachlor Epoxide (1)	14.3	ug/Kg	8.20	57.4	10.7 - 96		4/7/2016
Methoxychlor (1)	14.3	ug/Kg	7.45	52.2	9.5 - 98.5		4/7/2016
trans-Chlordane (1)	14.3	ug/Kg	8.04	56.3	12.2 - 94.6		4/7/2016

Method Reference(s): EPA 8081B
EPA 3550C

Preparation Date: 4/7/2016

Data File: PST17484.D

QC Number: 1

QC Batch ID: QC160407PESTSS

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Method Blank Report

Client: Iyer Environmental Group
Project Reference: Pinto Lockport Topsoil
Lab Project ID: 161307
SDG #: 1307-01
Matrix: Soil

Mercury

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Mercury	<0.00786	mg/Kg		4/8/2016 11:49
Method Reference(s):	EPA 7471B			
Preparation Date:	4/7/2016			
Data File:	Hg160408A			
QC Batch ID:	QC160407Hgsoil			
QC Number:	1			

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Report Prepared Tuesday, April 12, 2016



QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Lab Project ID: 161307

SDG #: 1307-01

Matrix: Soil

Mercury

Analyte	LCS	LCSD	Spike	LCS	LCSD	LCS %	LCSD %	% Rec	LCS	LCSD	Relative %	RPD	RPD	Date
Mercury	Added	Added	Units	Result	Result	Recovery	Recovery	Limits	Outliers	Outliers	Difference	Limit	Outliers	Analyzed
	0.0792	0.0738	mg/Kg	0.0791	0.0759	99.8	103	80 - 120			3.00	20		4/8/2016

Method Reference(s): EPA7471B
 Preparation Date: 4/7/2016
 Data File: Hg160408A
 QC Number: 1
 QC Batch ID: QC160407Hgsoil

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



QC Report for Sample Spike and Sample Duplicate

SDG #: 1307-01

Lab Project ID: 161307

Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Lab Sample ID: 161307-12

Sample Identifier: CTS-C

Matrix: Soil

Date Sampled: 4/5/2016

Date Received: 4/6/2016

Mercury

Analyte	Sample Results	Result Units	Spike Added	Spike Result	Spike % Recovery	% Rec Limits	Spike Outliers	Duplicate Result	Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
Mercury	0.0615	mg/Kg	0.107	0.166	98.1	75 - 125		0.0619	0.744	20		4/8/2016

Method Reference(s): EPA 7471B
 Preparation Date: 4/7/2016
 Hg160408A
 QC Batch ID: QC160407Hgsoil

NC = Not Calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Tuesday, April 12, 2016



Method Blank Report

Client: Iyer Environmental Group
Project Reference: Pinto Lockport Topsoil
Lab Project ID: 161307
SDG #: 1307-01
Matrix: Soil

Metals

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Arsenic	<0.485	mg/Kg		4/8/2016 16:17
Barium	<4.85	mg/Kg		4/8/2016 16:17
Beryllium	<0.243	mg/Kg		4/8/2016 16:17
Cadmium	<0.243	mg/Kg		4/8/2016 16:17
Chromium	<0.485	mg/Kg		4/8/2016 16:17
Copper	<1.21	mg/Kg		4/8/2016 16:17
Lead	<0.485	mg/Kg		4/8/2016 16:17
Manganese	<0.728	mg/Kg		4/8/2016 16:17
Nickel	<1.94	mg/Kg		4/8/2016 16:17
Selenium	<0.485	mg/Kg		4/11/2019 11:31
Silver	<0.485	mg/Kg		4/8/2016 16:17
Zinc	<2.91	mg/Kg		4/8/2016 16:17

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 4/7/2016
Data File: 040816b
QC Batch ID: QC160407soil
QC Number: 1

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Tuesday, April 12, 2016



QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Lab Project ID: 161307

SDG #: 1307-01

Matrix: Soil

Metals

Analyte	LCS Added	LCSD Added	Spike Units	LCS Result	LCSD Result	LCS % Recovery	LCSD % Recovery	% Rec Limits	LCS Outliers	LCSD Outliers	Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
Arsenic	123	121	mg/Kg	118	117	96.6	96.6	85 - 115			0.0364	20		4/8/2016
Barium	123	121	mg/Kg	125	123	102	101	85 - 115			0.992	20		4/8/2016
Beryllium	24.5	24.3	mg/Kg	24.9	24.6	102	102	85 - 115			0.155	20		4/8/2016
Cadmium	49.0	48.5	mg/Kg	48.6	48.0	99.1	98.8	85 - 115			0.286	20		4/8/2016
Chromium	123	121	mg/Kg	125	124	102	102	85 - 115			0.115	20		4/8/2016
Copper	123	121	mg/Kg	124	122	101	101	85 - 115			0.387	20		4/8/2016
Lead	123	121	mg/Kg	123	121	100	99.8	85 - 115			0.410	20		4/8/2016
Manganese	49.0	48.5	mg/Kg	49.9	48.9	102	101	85 - 115			0.963	20		4/8/2016
Nickel	245	243	mg/Kg	259	255	106	105	85 - 115			0.476	20		4/8/2016
Selenium	123	121	mg/Kg	118	116	96.5	95.2	85 - 115			1.38	20		4/11/2016
Silver	12.3	12.1	mg/Kg	11.8	11.7	96.2	96.2	85 - 115			0.00122	20		4/8/2016
Zinc	123	121	mg/Kg	126	125	103	103	85 - 115			0.185	20		4/8/2016

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QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Lab Project ID: 161307

SDG #: 1307-01

Matrix: Soil

Metals

Analyte	LCS	LCSD	Spike	LCS	LCSD	LCS %	LCSD %	% Rec	LCS	LCSD	Relative %	RPD	RPD	Date
	Added	Added	Units	Result	Result	Recovery	Recovery	Limits	Outliers	Outliers	Difference	Limit	Outliers	Analyzed
Method Reference(s):	EPA 6010C													
Preparation Date:	EPA 3050B													
Data File:	4/7/2016													
QC Number:	040816b													
QC Batch ID:	1													
	QC160407soil													

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



QC Report for Sample Spike and Sample Duplicate

SDG #: 1307-01

Lab Project ID: 161307

Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Lab Sample ID: 161307-12

Date Sampled: 4/5/2016

Sample Identifier: CTS-C

Date Received: 4/6/2016

Matrix: Soil

Metals

Analyte	Sample Results	Result Units	Spike Added	Spike Result	Spike % Recovery	% Rec Limits	Spike Outliers	Duplicate Result	Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
Arsenic	4.35	mg/Kg	161	147	88.7	75 - 125		4.07	6.60	20		4/8/2016
Barium	98.4	mg/Kg	161	245	91.2	75 - 125		96.7	1.79	20		4/8/2016
Beryllium	0.815	mg/Kg	32.2	30.1	90.9	75 - 125		0.762	6.74	20		4/8/2016
Cadmium	< 0.338	mg/Kg	64.4	55.5	86.2	75 - 125		<0.328	NC	20		4/8/2016
Chromium	23.7	mg/Kg	161	170	91.1	75 - 125		22.8	4.18	20		4/8/2016
Copper	12.5	mg/Kg	161	164	93.8	75 - 125		12.0	3.99	20		4/8/2016
Lead	18.7	mg/Kg	161	159	87.1	75 - 125		17.7	5.59	20		4/8/2016
Manganese	584	mg/Kg	64.4	539	-70.9	75 - 125	*	415	33.9	20	*	4/8/2016
Nickel	19.3	mg/Kg	322	313	91.2	75 - 125		18.9	2.15	20		4/8/2016
Selenium	< 0.676	mg/Kg	161	144	89.1	75 - 125		<0.657	NC	20		4/11/2016
Silver	< 0.676	mg/Kg	16.1	13.2	82.2	75 - 125		<0.657	NC	20		4/8/2016
Zinc	85.0	mg/Kg	161	240	96.3	75 - 125		82.3	3.25	20		4/8/2016

NC = Not Calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added.

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Report Prepared Wednesday, April 13, 2016



QC Report for Sample Spike and Sample Duplicate

Client: Iyer Environmental Group
Project Reference: Pinto Lockport Topsoil

SDG #: 1307-01
Lab Project ID: 161307

Lab Sample ID: 161307-12
Sample Identifier: CTS-C
Matrix: Soil

Date Sampled: 4/5/2016
Date Received: 4/6/2016

Metals

<u>Analyte</u>	<u>Sample Results</u>	<u>Result Units</u>	<u>Spike Added</u>	<u>Spike Result</u>	<u>Spike % Recovery</u>	<u>% Rec Limits</u>	<u>Spike Outliers</u>	<u>Duplicate Result</u>	<u>Relative % Difference</u>	<u>RPD Limit</u>	<u>RPD Outliers</u>	<u>Date Analyzed</u>
	<u>Method Reference(s):</u>	EPA 6010C EPA 3050B										
	<u>Preparation Date:</u>	4/7/2016										
	<u>QC Batch ID:</u>	040816b QC160407/soil										

NC = Not Calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added.

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Report Prepared Wednesday, April 13, 2016



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.

"E" = Result has been estimated, calibration limit exceeded.

"Z" = See case narrative.

"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.

"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.

"B" = Method blank contained trace levels of analyte. Refer to included method blank report.

"J" = Result estimated between the quantitation limit and half the quantitation limit.

"L" = Laboratory Control Sample recovery outside accepted QC limits.

"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.

"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.

"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*

"(1)" = Indicates data from primary column used for QC calculation.

"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.

"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

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GENERAL TERMS AND CONDITIONS

LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation.

LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.

Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility.

LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

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179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

1 of 3

REPORT TO: CLIENT: Iyer Environmental Group ADDRESS: 144 Rolling Hills Dr CITY: Orchard Park NY 14127 PHONE: (716) 662-4157 ATTN: Dharma Iyer		INVOICE TO: CLIENT: SAME ADDRESS: CITY: STATE: ZIP:		LAB PROJECT ID 161307 Quotation #: Email: iegpllc@aol.com	
PROJECT REFERENCE Pinto Lockport Topsoil		Matrix Codes: AQ - Aqueous Liquid NQ - Non-Aqueous Liquid WA - Water WG - Groundwater DW - Drinking Water WW - Wastewater SO - Soil SL - Sludge SD - Solid PT - Paint WP - Wipe CK - Caulk OL - Oil AR - Air			

DATE COLLECTED	TIME COLLECTED	COMPOSITE	G R A B	SAMPLE IDENTIFIER	M C A D T R I S	C O N T A I N E R S	TCL VOCs	TCL SVOCs	Pests/PCBs/Herbs	TAL Metals/Hg	Cyanide	Chlorine	REMARKS	PARADIGM LAB SAMPLE NUMBER
4/5/16	8:15a	✓	✓	CTS-1	SO	1	✓	✓	✓	✓	✓	✓	Part 375 lists	01
2	8:25a	✓	✓	CTS-2		1	✓	✓	✓	✓	✓	✓	Herbicides - Silver only	02
3	8:35a	✓	✓	CTS-3		1	✓	✓	✓	✓	✓	✓	TCL/CP-SI VOC	03
4	8:40a	✓	✓	CTS-4		1	✓	✓	✓	✓	✓	✓	Low level PCBs	04
5	8:40a	✓	✓	CTS-A		2	✓	✓	✓	✓	✓	✓	Part 375 marks, per JH per 4/6/16	05
6	8:45a	✓	✓	CTS-5		1	✓	✓	✓	✓	✓	✓		06
7	8:55a	✓	✓	CTS-6		1	✓	✓	✓	✓	✓	✓		07
8	9:10a	✓	✓	CTS-7		1	✓	✓	✓	✓	✓	✓		08
9	9:20a	✓	✓	CTS-8		1	✓	✓	✓	✓	✓	✓		09
10	9:30a	✓	✓	CTS-B		2	✓	✓	✓	✓	✓	✓		10

Turnaround Time Availability contingent upon lab approval; additional fees may apply.		Report Supplements	
Standard 5 day	<input checked="" type="checkbox"/>	Batch QC	<input type="checkbox"/>
Rush 3 day	<input type="checkbox"/>	Category A	<input checked="" type="checkbox"/>
Rush 2 day	<input type="checkbox"/>	Category B	<input type="checkbox"/>
Rush 1 day	<input type="checkbox"/>	Other	<input type="checkbox"/>
Other	<input type="checkbox"/>	Other EDD	<input type="checkbox"/>

Received @ Lab By: [Signature] Date/Time: 4/6/16 10:29

Received By: [Signature] Date/Time: 4/5/16 1:30 P

Relinquished By: [Signature] Date/Time: 4/5/16 1:30 P

Sampled By: [Signature] Date/Time: 4/5/16 1:30 P

Per V. Sam 1503 COS per 4/6/16 Silver, Hot Churne, TOC sent directly to sub lab. per 4/6/16

80cc sealed 4/6/16 09:25. No Custody Seal on cooler, shipped via UPS. Perceid with analysis per JH. per 4/6/16



179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

2 of 3

CHAIN OF CUSTODY

REPORT TO:

INVOICE TO:

CLIENT: YEA ENVIRONMENTAL	CLIENT: SAMS	LAB PROJECT ID: 161307
ADDRESS: 44 Rollins Hill Dr	ADDRESS:	Quotation #: 161307
CITY: ROCHESTER NY 14610	CITY:	Email: jepp@coul.com
STATE: NY	STATE:	
ZIP: 14610	ZIP:	
PHONE: 716 6624157	PHONE:	
ATTN: Dharma Iyer	ATTN:	
PROJECT REFERENCE: 2012 Pints Lockport TQSR1		
MATRIX CODES: AQ - Aqueous Liquid	WA - Water	DW - Drinking Water
NQ - Non-Aqueous Liquid	WG - Groundwater	WW - Wastewater
	SO - Soil	SL - Sludge
	SD - Solid	WP - Wipe
	PT - Paint	CK - Caulk
	OL - Oil	AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GAB	SAMPLE IDENTIFIER	ACORDS	NUMBERS	ANALYSIS	REMARKS	PARADIGM LAB SAMPLE NUMBER
4/5/16	9:40	✓	✓	CTS-9	SD	2	TCL VOCs TCL SVOCs Pest/PCB TAM Metals + Hg Cyanide Hex Bioide TOC Hex Chrome	4/5/16	11
2	9:50	✓	✓	CTS-C	SD	2	per 3ml/sub cdc	4/6/16	12
3									
4									
5									
6									
7									
8									
9									
10									

Turnaround Time

Report Supplements

Availability contingent upon lab approval; additional fees may apply.

Standard 5 day	<input checked="" type="checkbox"/>	Batch QC	<input type="checkbox"/>	Basic EDD	<input checked="" type="checkbox"/>
Rush 3 day	<input type="checkbox"/>	Category A	<input checked="" type="checkbox"/>	NYSDEC EDD	<input type="checkbox"/>
Rush 2 day	<input type="checkbox"/>	Category B	<input type="checkbox"/>	Other EDD	<input type="checkbox"/>
Rush 1 day	<input type="checkbox"/>	Other	<input type="checkbox"/>	Other EDD	<input type="checkbox"/>
Other	<input type="checkbox"/>	Other	<input type="checkbox"/>	Other EDD	<input type="checkbox"/>

Sampled By: Richard C. Albert	Date/Time: 4/5/16
Relinquished By: Richard C. Albert	Date/Time: 4/5/16 1:30 PM
Received By: [Signature]	Date/Time: 4/6/16 10:29
Received @ Lab By: [Signature]	Date/Time: 4/6/16 10:29

Total Cost:

P.L.F.:



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Chain of Custody Supplement

Client: Iyer Environmental Group Completed by: Glenn Pezzulo
 Lab Project ID: 161307 Date: 4/6/16

Sample Condition Requirements
 Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt		
	Yes	No	N/A
Container Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> SCS	<input type="checkbox"/>
Comments			
Transferred to method-compliant container	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Headspace (<1 mL)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments			
Preservation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments			
Chlorine Absent (<0.10 ppm per test strip)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments			
Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			
Temperature	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> mems
Comments	8°C ice 4/6/16 09:25 Ok to proceed per JH.		
Sufficient Sample Quantity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	Samples for Silver, Hex Chrome, TOC sent directly to sub lab.		



ANALYTICAL REPORT

Lab Number:	L1609768
Client:	Paradigm Environmental Services 179 Lake Avenue Rochester, NY 14608
ATTN:	Kate Hansen
Phone:	(585) 647-2530
Project Name:	LOCKPORT TOPSOIL
Project Number:	LOCKPORT TOPSOIL
Report Date:	04/12/16

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Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: LOCKPORT TOPSOIL
Project Number: LOCKPORT TOPSOIL

Lab Number: L1609768
Report Date: 04/12/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1609768-01	CTS-A	SOIL	Not Specified	04/05/16 08:40	04/05/16
L1609768-02	CTS-B	SOIL	Not Specified	04/05/16 09:30	04/05/16
L1609768-03	CTS-C	SOIL	Not Specified	04/05/16 09:50	04/05/16

Project Name: LOCKPORT TOPSOIL
Project Number: LOCKPORT TOPSOIL

Lab Number: L1609768
Report Date: 04/12/16

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: LOCKPORT TOPSOIL
Project Number: LOCKPORT TOPSOIL

Lab Number: L1609768
Report Date: 04/12/16

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

At the client's request, the samples were analyzed for Hexavalent Chromium

Total Organic Carbon

WG882843: A Matrix Spike and Laboratory Duplicate were prepared with the sample batch, however, the native sample required a different reporting method; therefore, the matrix spike and laboratory duplicate results could not be reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Melissa Cripps

Title: Technical Director/Representative

Date: 04/12/16

ORGANICS

PESTICIDES

Project Name: LOCKPORT TOPSOIL
Project Number: LOCKPORT TOPSOIL

Lab Number: L1609768
Report Date: 04/12/16

SAMPLE RESULTS

Lab ID: L1609768-01
 Client ID: CTS-A
 Sample Location: Not Specified
 Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/10/16 03:29
 Analyst: EC
 Percent Solids: 71%
 Methylation Date: 04/09/16 18:32

Date Collected: 04/05/16 08:40
 Date Received: 04/05/16
 Field Prep: Not Specified
 Extraction Method: EPA 8151A
 Extraction Date: 04/08/16 06:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	228	6.07	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	92		30-150	A
DCAA	62		30-150	B

Project Name: LOCKPORT TOPSOIL
Project Number: LOCKPORT TOPSOIL

Lab Number: L1609768
Report Date: 04/12/16

SAMPLE RESULTS

Lab ID: L1609768-02
 Client ID: CTS-B
 Sample Location: Not Specified
 Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/10/16 03:49
 Analyst: EC
 Percent Solids: 73%
 Methylation Date: 04/09/16 18:32

Date Collected: 04/05/16 09:30
 Date Received: 04/05/16
 Field Prep: Not Specified
 Extraction Method: EPA 8151A
 Extraction Date: 04/08/16 06:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	225	5.98	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	112		30-150	A
DCAA	72		30-150	B

Project Name: LOCKPORT TOPSOIL
Project Number: LOCKPORT TOPSOIL

Lab Number: L1609768
Report Date: 04/12/16

SAMPLE RESULTS

Lab ID: L1609768-03
 Client ID: CTS-C
 Sample Location: Not Specified
 Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/10/16 04:08
 Analyst: EC
 Percent Solids: 73%
 Methylation Date: 04/09/16 18:32

Date Collected: 04/05/16 09:50
 Date Received: 04/05/16
 Field Prep: Not Specified
 Extraction Method: EPA 8151A
 Extraction Date: 04/08/16 06:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	227	6.03	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	100		30-150	A
DCAA	67		30-150	B

Project Name: LOCKPORT TOPSOIL
Project Number: LOCKPORT TOPSOIL

Lab Number: L1609768
Report Date: 04/12/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 04/09/16 00:39
Analyst: EC

Extraction Method: EPA 8151A
Extraction Date: 04/08/16 06:06

Methylation Date: 04/08/16 19:59

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-03 Batch: WG881566-1						
2,4,5-TP (Silvex)	ND		ug/kg	162	4.30	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	134		30-150	A
DCAA	95		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: LOCKPORT TOPSOIL
Project Number: LOCKPORT TOPSOIL

Lab Number: L1609768
Report Date: 04/12/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG881566-2 WG881566-3									
2,4-D	95		110		30-150	15		30	A
2,4,5-T	99		110		30-150	11		30	A
2,4,5-TP (Silvex)	96		105		30-150	9		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	118		139		30-150	A
DCAA	89		100		30-150	B

INORGANICS & MISCELLANEOUS

Project Name: LOCKPORT TOPSOIL
Project Number: LOCKPORT TOPSOIL

Lab Number: L1609768
Report Date: 04/12/16

SAMPLE RESULTS

Lab ID: L1609768-01
Client ID: CTS-A
Sample Location: Not Specified
Matrix: Soil

Date Collected: 04/05/16 08:40
Date Received: 04/05/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon	2.85		%	0.010	0.010	1	-	04/12/16 11:27	1,9060A	CM
General Chemistry - Westborough Lab										
Solids, Total	71.2		%	0.100	NA	1	-	04/06/16 13:10	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	1.1	0.22	1	04/10/16 16:20	04/11/16 16:56	1,7196A	AL



Project Name: LOCKPORT TOPSOIL
Project Number: LOCKPORT TOPSOIL

Lab Number: L1609768
Report Date: 04/12/16

SAMPLE RESULTS

Lab ID: L1609768-02
Client ID: CTS-B
Sample Location: Not Specified
Matrix: Soil

Date Collected: 04/05/16 09:30
Date Received: 04/05/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon	2.26		%	0.010	0.010	1	-	04/12/16 11:32	1,9060A	CM
General Chemistry - Westborough Lab										
Solids, Total	72.7		%	0.100	NA	1	-	04/06/16 13:10	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	1.1	0.22	1	04/10/16 16:20	04/11/16 16:57	1,7196A	AL



Project Name: LOCKPORT TOPSOIL
Project Number: LOCKPORT TOPSOIL

Lab Number: L1609768
Report Date: 04/12/16

SAMPLE RESULTS

Lab ID: L1609768-03
Client ID: CTS-C
Sample Location: Not Specified
Matrix: Soil

Date Collected: 04/05/16 09:50
Date Received: 04/05/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon	3.18		%	0.010	0.010	1	-	04/12/16 11:37	1,9060A	CM
General Chemistry - Westborough Lab										
Solids, Total	72.9		%	0.100	NA	1	-	04/06/16 13:10	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	1.1	0.22	1	04/10/16 16:20	04/11/16 16:58	1,7196A	AL



Project Name: LOCKPORT TOPSOIL
Project Number: LOCKPORT TOPSOIL

Lab Number: L1609768
Report Date: 04/12/16

Method Blank Analysis
Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG882180-1									
Chromium, Hexavalent	ND	mg/kg	0.80	0.16	1	04/10/16 16:20	04/11/16 16:53	1,7196A	AL
Total Organic Carbon - Mansfield Lab for sample(s): 01-03 Batch: WG882843-1									
Total Organic Carbon	ND	%	0.010	0.010	1	-	04/12/16 11:08	1,9060A	CM



Lab Control Sample Analysis Batch Quality Control

Project Name: LOCKPORT TOPSOIL
Project Number: LOCKPORT TOPSOIL

Lab Number: L1609768
Report Date: 04/12/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG882180-2								
Chromium, Hexavalent	91		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: LOCKPORT TOPSOIL
Project Number: LOCKPORT TOPSOIL

Lab Number: L1609768
Report Date: 04/12/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG882180-4 QC Sample: L1609768-01 Client ID: CTS-A												
Chromium, Hexavalent	ND	1090	830	76		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: LOCKPORT TOPSOIL
Project Number: LOCKPORT TOPSC

Lab Number: L1609768
Report Date: 04/12/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG880917-1 QC Sample: L1609790-01 Client ID: DUP Sample						
Solids, Total	81.1	83.0	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG882180-6 QC Sample: L1609768-01 Client ID: CTS-A						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: LOCKPORT TOPSOIL
Project Number: LOCKPORT TOPSOIL

Lab Number: L1609768
Report Date: 04/12/16

S.R.M. Standard Quality Control

Standard Reference Material (SRM): WG882843-2

Parameter	% Recovery	Qual	QC Criteria
Total Organic Carbon	101		75-125

Project Name: LOCKPORT TOPSOIL**Lab Number:** L1609768**Project Number:** LOCKPORT TOPSOIL**Report Date:** 04/12/16**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Cooler Information Custody Seal**Cooler**

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1609768-01A	Glass 250ml/8oz unpreserved	A	N/A	3.4	Y	Absent	HERB-APA(14),TS(7),HEXCR-7196(30)
L1609768-01X	Glass 100ml unpreserved split	A	N/A	3.4	Y	Absent	A2-TOC-9060(28)
L1609768-02A	Glass 250ml/8oz unpreserved	A	N/A	3.4	Y	Absent	HERB-APA(14),TS(7),HEXCR-7196(30)
L1609768-02X	Glass 100ml unpreserved split	A	N/A	3.4	Y	Absent	A2-TOC-9060(28)
L1609768-03A	Glass 250ml/8oz unpreserved	A	N/A	3.4	Y	Absent	HERB-APA(14),TS(7),HEXCR-7196(30)
L1609768-03X	Glass 100ml unpreserved split	A	N/A	3.4	Y	Absent	A2-TOC-9060(28)

*Values in parentheses indicate holding time in days

Project Name: LOCKPORT TOPSOIL
Project Number: LOCKPORT TOPSOIL

Lab Number: L1609768
Report Date: 04/12/16

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

Report Format: DU Report with 'J' Qualifiers



Project Name: LOCKPORT TOPSOIL
Project Number: LOCKPORT TOPSOIL

Lab Number: L1609768
Report Date: 04/12/16

Data Qualifiers

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: LOCKPORT TOPSOIL
Project Number: LOCKPORT TOPSOIL

Lab Number: L1609768
Report Date: 04/12/16

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, m/p-xylene, o-xylene
EPA 624: 2-Butanone (MEK), 1,4-Dioxane, tert-Amylmethyl Ether, tert-Butyl Alcohol, m/p-xylene, o-xylene
EPA 625: Aniline, Benzoic Acid, Benzyl Alcohol, 4-Chloroaniline, 3-Methylphenol, 4-Methylphenol.
EPA 1010A: NPW: Ignitability
EPA 6010C: NPW: Strontium; SCM: Strontium
EPA 8151A: NPW: 2,4-DB, Dicamba, Dichloroprop, MCPA, MCPP; SCM: 2,4-DB, Dichloroprop, MCPA, MCPP
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene, Isopropanol; SCM: Iodomethane (methyl iodide), Methyl methacrylate (soil); 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.
EPA 9010: NPW: Amenable Cyanide Distillation, Total Cyanide Distillation
EPA 9038: NPW: Sulfate
EPA 9050A: NPW: Specific Conductance
EPA 9056: NPW: Chloride, Nitrate, Sulfate
EPA 9065: NPW: Phenols
EPA 9251: NPW: Chloride
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

EPA 8270D: NPW: Biphenyl; SCM: Biphenyl, Caprolactam
EPA 8270D-SIM Isotope Dilution: SCM: 1,4-Dioxane
SM 2540D: TSS
SM2540G: SCM: Percent Solids
EPA 1631E: SCM: Mercury
EPA 7474: SCM: Mercury
EPA 8081B: NPW and SCM: Mirex, Hexachlorobenzene.
EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.
EPA 8270-SIM: NPW and SCM: Alkylated PAHs.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene.
Biological Tissue Matrix: **8270D-SIM; 3050B; 3051A; 7471B; 8081B; 8082A; 6020A:** Lead; **8270D:** bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Diethyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Fluoranthene, Pentachlorophenol.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Ti; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Ti, Zn;
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

L1609768

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

148071



CHAIN OF CUSTODY

REPORT TO:

INVOICE TO:

COMPANY: Paradigm Environmental	COMPANY: Same	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS: 179 Lake Avenue	ADDRESS:	TURNAROUND TIME: (WORKING DAYS)	
CITY: Rochester STATE: NY ZIP: 14608	CITY: STATE: ZIP:	Results 4/12/16 STD <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 OTHER	
PHONE: FAX:	PHONE: FAX:	Date Due:	
ATTN: Kate Hansen	ATTN: Meridith Dillman	COMMENTS: Please email results to khansen@paradigmenv.com and reporting@paradigmenv.com	

PROJECT NAME/SITE NAME:
Lockport Topsoil

REQUESTED ANALYSIS:

DATE	TIME	COMPOSITE	GRA B	SAMPLE LOCATION/FIELD ID	MATRIX	CONTAMINANTS	REMARKS	PARADIGM LAB SAMPLE NUMBER
4/5/16	8:40	✓		CTS-A	SO	Herbicides X X X Per JH OP 4/6/16		
4/5/16	9:30	✓		CTS-B	SO	X X X		
4/5/16	9:58	✓		CTS-C	SO	X X X		

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type:	Y <input type="checkbox"/>	N <input type="checkbox"/>
Comments:		
Preservation:	Y <input type="checkbox"/>	N <input type="checkbox"/>
Comments:		
Holding Time:	Y <input type="checkbox"/>	N <input type="checkbox"/>
Comments:		
Temperature:	Y <input type="checkbox"/>	N <input type="checkbox"/>
Comments:		

Client	<i>4/5/16</i>
Sampled By	Date/Time
<i>John Hoff</i>	<i>4/5/16 3:00</i>
Relinquished By	Date/Time
<i>Jocelyn Tracy (AAL)</i>	<i>4/5/16 15:00</i>
Received By	Date/Time
	<i>4/6/16 09:10</i>
Received By	Date/Time
	<i>4/7/16 04:10</i>
Received @ Lab By	Date/Time
<i>Tom Backs</i>	<i>4/7/16 04:10</i>

Total Cost:

P.I.F.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

L1609768

148071



CHAIN OF CUSTODY

REPORT TO:

INVOICE TO:

COMPANY: Paradigm Environmental	COMPANY: Same	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS: 179 Lake Avenue	ADDRESS:	TURNAROUND TIME: (WORKING DAYS)	
CITY: Rochester STATE: NY ZIP: 14608	CITY: STATE: ZIP:	Results 4/12/16 STD <input checked="" type="checkbox"/> OTHER	
PHONE: FAX:	PHONE: FAX:	Date Due:	
ATTN: Kate Hansen	ATTN: Meridith Dillman	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 5 <input type="checkbox"/>	

PROJECT NAME/SITE NAME:
Lockport Topsoil

COMMENTS: Please email results to khansen@paradigmenv.com and reporting@paradigmenv.com

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRA B	SAMPLE LOCATION/FIELD ID	MATRIX	CONTAMINERS	Herbicides	REMARKS	PARADIGM LAB SAMPLE NUMBER
4/5/16	8:40	✓		CTS-A	SO	1	X		
4/5/16	9:30	✓		CTS-B	SO	1	X		
4/5/16	9:58	✓		CTS-C	SO	1	X		

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type:	Y <input type="checkbox"/>	N <input type="checkbox"/>
Comments:		
Preservation:	Y <input type="checkbox"/>	N <input type="checkbox"/>
Comments:		
Holding Time:	Y <input type="checkbox"/>	N <input type="checkbox"/>
Comments:		
Temperature:	Y <input type="checkbox"/>	N <input type="checkbox"/>
Comments:		

Client	<i>4/5/16</i>
Sampled By <i>John Hoff</i>	Date/Time <i>4/5/16 3:00</i>
Relinquished By <i>Jocelyn Foley (AAL)</i>	Date/Time <i>4/5/16 15:00</i>
Received By <i>RELINQUISHED BY: Jocelyn Foley</i>	Date/Time
Received By <i>[Signature]</i>	Date/Time <i>4/6/16 0600</i>
Received @ Lab By	Date/Time

Total Cost:

P.I.F.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311



CHAIN OF CUSTODY

148071

REPORT TO:

INVOICE TO:

COMPANY: Paradigm Environmental	COMPANY: Same	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS: 179 Lake Avenue	ADDRESS:	TURNAROUND TIME: (WORKING DAYS)	
CITY: Rochester STATE: NY ZIP: 14608	CITY: STATE: ZIP:	Results 4/12/16 STD <input checked="" type="checkbox"/> 5 OTHER	
PHONE: FAX:	PHONE: FAX:	Date Due:	
ATTN: Kate Hansen	ATTN: Meridith Dillman	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 5	
COMMENTS: Please email results to khansen@paradigmenv.com and reporting@paradigmenv.com			

PROJECT NAME/SITE NAME:
Lockport Topsoil

REQUESTED ANALYSIS:

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	CONTAMINANTS	Herbicides	TOC	As JH	OP 4/6/16	REMARKS	PARADIGM LAB SAMPLE NUMBER
4/5/16	8:40	✓		CTS-A	SO	1	X	X				
4/5/16	9:30	✓		CTS-B	SO	1	X	X				
4/5/16	9:58	✓		CTS-C	SO	1	X	X				

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type:	Y <input type="checkbox"/>	N <input type="checkbox"/>
Comments:		
Preservation:	Y <input type="checkbox"/>	N <input type="checkbox"/>
Comments:		
Holding Time:	Y <input type="checkbox"/>	N <input type="checkbox"/>
Comments:		
Temperature:	Y <input type="checkbox"/>	N <input type="checkbox"/>
Comments:		

Client	<i>4/5/16</i>
Sampled By	Date/Time
<i>John Hoff</i>	<i>4/5/16 3:00</i>
Relinquished By	Date/Time
<i>Jocelyn Tracy (AAL)</i>	<i>4/5/16 15:00</i>
Received By	Date/Time
Received By	Date/Time
Received @ Lab By	Date/Time

Total Cost:

P.I.F.



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For
Iyer Environmental Group

For Lab Project ID

161307

Referencing

Pinto Lockport Topsoil

Prepared

Wednesday, April 13, 2016

This report is supplemental to project #161307 and is being issued with results for percent solids, per client request.

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

A handwritten signature in black ink, appearing to be "W. [unclear]", is written over a horizontal line.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Wednesday, April 13, 2016

Page 1 of 18



Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-1

Lab Sample ID: 161307-01

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	70.3	%		4/6/2016

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.



Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-2

Lab Sample ID: 161307-02

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	72.8	%		4/6/2016

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.



Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-3

Lab Sample ID: 161307-03

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	66.2	%		4/6/2016

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.



Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-4

Lab Sample ID: 161307-04

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	76.7	%		4/6/2016

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.



Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-A

Lab Sample ID: 161307-05

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	71.6	%		4/6/2016

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.



Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-5

Lab Sample ID: 161307-06

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	76.0	%		4/6/2016

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.



Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-6

Lab Sample ID: 161307-07

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	74.7	%		4/6/2016

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.



Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-7

Lab Sample ID: 161307-08

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	75.7	%		4/6/2016

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.



Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-8

Lab Sample ID: 161307-09

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	74.8	%		4/6/2016

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.



Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-B

Lab Sample ID: 161307-10

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	73.3	%		4/6/2016

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.



Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-9

Lab Sample ID: 161307-11

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	71.8	%		4/6/2016

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.



Client: Iyer Environmental Group

Project Reference: Pinto Lockport Topsoil

Sample Identifier: CTS-C

Lab Sample ID: 161307-12

Date Sampled: 4/5/2016

Matrix: Soil

Date Received: 4/6/2016

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	73.2	%		4/6/2016

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.

"E" = Result has been estimated, calibration limit exceeded.

"Z" = See case narrative.

"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.

"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.

"B" = Method blank contained trace levels of analyte. Refer to included method blank report.

"J" = Result estimated between the quantitation limit and half the quantitation limit.

"L" = Laboratory Control Sample recovery outside accepted QC limits.

"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.

"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.

"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*

"(1)" = Indicates data from primary column used for QC calculation.

"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.

"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

GENERAL TERMS AND CONDITIONS

LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation.

LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.

Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility.

LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

1 of 3

PARADIGM
ENVIRONMENTAL SERVICES, INC.

REPORT TO:		CLIENT:	
Iyer Environmental Group		Iyer Environmental Group	
ADDRESS: 444 Rolling Hills Dr		ADDRESS:	
CITY: Orchard Park NY		CITY: SAME	
PHONE: (716) 662-4157		PHONE:	
ATTN: Dharma Iyer		ATTN:	
PROJECT REFERENCE: 1012	Lockport Topsoil	INVOICE TO:	LAB PROJECT ID:
WA - Water	WG - Groundwater	DW - Drinking Water	WW - Wastewater
		SO - Soil	SL - Sludge
		SD - Solid	PT - Paint
		WP - Wipe	CK - Caulk
		OL - Oil	AR - Air
REQUESTED ANALYSIS		Matrix Codes:	
		AQ - Aqueous Liquid	
		NO - Non-Aqueous Liquid	
		Quotation #:	161307
		Email:	iegpilce@aol.com

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRADES	SAMPLE IDENTIFIER	MCTDRIS	NUMBERS	TCL VOCs	TCL SVOCs	Pests/PCBs/Herbs	TAL Metals/bly	Cyanide	Chrome	REMARKS	PARADIGM LAB SAMPLE NUMBER
4/5/16	8:15a	✓		CTS-1	SO	1	✓	✓				Part 375 lists	0 1	
2	8:25a	✓		CTS-2	✓	1	✓	✓				Herbicides - Silver only	0 2	
3	8:35a	✓		CTS-3	✓	1	✓	✓				Low level PCBs	0 3	
4	8:40a	✓		CTS-4	✓	1	✓	✓				Part 375 Metals.	0 4	
5	8:40a	✓		CTS-A	✓	2	✓	✓	✓	✓		per JH GR 4/6/16	0 5	
6	8:45a	✓		CTS-S	✓	1	✓	✓				Add Percent Solids to all	0 6	
7	8:55a	✓		CTS-B	✓	1	✓	✓					0 7	
8	9:10a	✓		CTS-7	✓	1	✓	✓				Samples per man/element.	0 8	
9	9:20a	✓		CTS-S	✓	1	✓	✓					0 9	
10	9:30a	✓		CTS-B	✓	2	✓	✓	✓	✓			0 10	

Turnaround Time		Report Supplements	
Availability: contingent upon lab approval; additional fees may apply.			
Standard 5 day	<input checked="" type="checkbox"/>	Batch QC	<input type="checkbox"/>
Rush 3 day	<input type="checkbox"/>	Category A	<input checked="" type="checkbox"/>
Rush 2 day	<input type="checkbox"/>	Category B	<input type="checkbox"/>
Rush 1 day	<input type="checkbox"/>	Other	<input type="checkbox"/>
Other	<input type="checkbox"/>	Other EDD	<input type="checkbox"/>
Please indicate:		Please indicate:	

Sampled By: Richard C. Hester Jr 4/5/16 1:30P
 Relinquished By: [Signature] 4/5/16 1:30P
 Received By: [Signature] 4/6/16 10:29 P
 Received @ Lab By: [Signature] 4/6/16 10:29 P

per v. Serial / Sub loc GR 4/6/16 Silver, Hex Chrome, TOC sent directly to Sub Lab. GR 4/6/16

Total Cost: _____
 P.I.F.

89°C sealed 4/6/16 09:25 No Custody Seal on cooler, shipped via UPS.
 Proceed with analysis per JH. GR 4/6/16



179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

2 of 3

REPORT TO:

INVOICE TO:

LAB PROJECT ID

CLIENT: YEA ENVIRONMENTAL GROUP
 ADDRESS: 44 ROLLING HILLS DR
 CITY: ROCHESTER NY 14610
 STATE: NY ZIP: 14610
 PHONE: 716 6624157

CLIENT: SAMS
 ADDRESS: _____
 CITY: _____ STATE: _____ ZIP: _____
 PHONE: _____

Quotation #: 161307

PROJECT REFERENCE: 2012 Pints Lockport TQSR1

ATTN: Dharma Iyer

Matrix Codes: WA - Water
AA - Aqueous Liquid
MA - Non-Aqueous Liquid
WG - Groundwater

Requested Analysis: DW - Drinking Water
WW - Wastewater
SO - Soil
SL - Sludge
SD - Solid
PT - Paint
WP - Wipe
CK - Caulk
OL - Oil
AR - Air

Requested Analysis: _____

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GARB	SAMPLE IDENTIFIER	AC TRES	NO UNT BEA RINERS	TESTS	REMARKS	PARADIGM LAB SAMPLE NUMBER
4/5/16	9:40		✓	CTS-9	SD	2	TCL VOCs		11
	9:50	✓		CTS-C	SD	2	TCL SVOCs pest/PCBs TAM Metals + Hg Cyanide Hex biode TOC Hex Chrome	Add percent solids to all samples per MW/contract.	12

Turnaround Time

Availability contingent upon lab approval; additional fees may apply.

Standard 5 day

Rush 3 day

Rush 2 day

Rush 1 day

Other

Report Supplements

Batch QC

Category A

Category B

Other

Basic EDD

NYSDEC EDD

Other EDD

Sampled By: Robert Calvert Date/Time: 4/5/16

Relinquished By: [Signature] Date/Time: 4/5/16 1:30 PM

Received By: [Signature] Date/Time: 4/6/16 10:29

Received @ Lab By: _____ Date/Time: _____

Total Cost:

P.L.F.



Chain of Custody Supplement

Client: Iyer Environmental Group Completed by: Glenn Pezzulo
 Lab Project ID: 161307 Date: 4/6/16

Sample Condition Requirements
 Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt		
	Yes	No	N/A
Container Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> 5035	<input type="checkbox"/>
Comments	_____		
Transferred to method-compliant container	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Headspace (<1 mL)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Preservation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Chlorine Absent (<0.10 ppm per test strip)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Temperature	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> memls
Comments	<u>8°C ice 4/6/16 09:25</u> <u>ok to proceed per JH.</u>		
Sufficient Sample Quantity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	<u>Samples for Silvex, Hex Chrome, TOC sent directly to sub lab.</u>		



MEMORANDUM

TO:	J. Walia (NYSDEC)
CC:	J. Panepinto, L. Cannata (Pinto CS)
FROM:	Dharma Iyer (IEG)
DATE:	June 9, 2015 (revised)
RE:	132 Dingens St. BCP Site OFF-SITE NATIVE SOIL FILL - STOCKPILE SAMPLING & ANALYSIS

132 Dingens St, LLC is proposing to use the following materials at the 132 Dingens St. site after excavation of contaminated soil/fill:

- Backfill: Native soil from Children's Hospital construction site, Buffalo, NY.
Pinto CS excavated this soil and stockpiled it at a site on Seneca St, Buffalo.
- Cover material: crushed stone from LaFarge's Lockport quarry.

BACKFILL FROM CHILDREN'S: Pinto is a subcontractor for the John R. Oshei (JRO) Children's Hospital site redevelopment by Kaleida Health at the northwest corner of Ellicott & High Streets, and identified it as a sizeable source of backfill. Kaleida Health had the top layer of urban fill disposed elsewhere. C&S Engineers, Inc. (C&S), Kaleida Health's consultant, then implemented a sampling program for the underlying native soils to determine the suitability of the native soil for use as off-site fill at a BCP site. C&S completed the native soil sampling in stages as the excavation proceeded. Over three sampling events C&S collected a total of twenty three (23) samples and had them analyzed them for the full list of DER-10 parameters - including VOCs, SVOCs, Metals, Cyanide, PCBs and Pesticides.

Based upon a review of the analytical data provided by C&S (report and data tables included as Attachment A), Pinto trucked and stockpiled an estimated 20,000 CY from this site at a yard on Seneca St., Buffalo, NY (see photos). Pinto anticipates using approximately 4,000 CY of soil from this stockpile as backfill at the Dingens St. Site.

CRUSHED STONE: This stone fill will be trucked from LaFarge's Lockport quarry to the site when needed. At that time IEG will obtain necessary gradation test results and certifications from LaFarge for submittal to the NYSDEC.

SAMPLING by IEG: The off-site soil stockpile was sampled by IEG on April 7, 2015 at a staging site (see photo below) on Seneca St. In addition, a crushed stone sample was obtained from the LaFarge's virgin source.

The sampling was performed by digging into the stock pile with a shovel. A total of fifteen (15) test pits were dug in an area representative of the 4,000 CY needed for the 132 Dingens St. site. The locations of these test pits are shown on the attached Figure 1. From each group of three test pits, two grab samples (marked A and B in each group on Figure 1) were collected for VOCs, and one composite sample was collected for all other DER-10 parameters. Thus a total of ten (10) grab soil samples were collected for TCL volatile organics, and five composite soil samples were collected for the remaining DER-10 parameters – TCL semivolatile organics, pesticides, herbicides, PCBs, TAL metals (including mercury) and cyanide. All soil samples were submitted to a NYS ELAP-certified analytical laboratory for DER-10 parameters for use of off-site fill at a BCP site.

Memorandum

Page 2

Subject: 132 Dingens St. Site: Backfill
From D. Iyer (IEG) to J. Walia (NYSDEC)

June 9, 2015

ANALYTICAL RESULTS: Analytical results for soil samples from the stockpile are included as Table 1.

VOCs: Trace levels of up to only four (4) VOCs were detected in the soil samples, all well below Unrestricted Use SCOs. The detected VOCs included benzene (non-detect to 0.74 µg/Kg), methylene chloride (2.5 to 3.7 µg/Kg), styrene (non-detect to 0.29 µg/Kg), and toluene (non-detect to 1.3 µg/Kg).

SVOCs: Up to only six (6) SVOCs were detected in the samples. These included bis (2-ethylhexyl) phthalate (up to 100 µg/Kg), diethyl phthalate (up to 87 µg/Kg), di-n-butyl phthalate (up to 17 µg/Kg), fluoranthene (up to 41 µg/Kg), phenanthrene (up to 32 µg/Kg), and pyrene (up to 34 µg/Kg).

Pesticides: Up to five (5) pesticide compounds were detected in the five composite soil samples. These included 4,4'-DDE (up to 0.43 µg/Kg), 4,4'-DDT (up to 0.65 µg/Kg), delta-BHC (up to 0.46 µg/Kg), endosulfan sulfate (up to 0.52 µg/Kg), and endrin aldehyde (up to 0.67 µg/Kg).

PCBs: No PCBS were present in any sample.

Herbicides: No herbicides were present in any sample.

Metals & Cyanide: No cyanide was detected in any of the samples. Three (3) of the thirteen (13) metals on the DER-10 list were non-detect in the samples. All others were detected at trace levels and well below their corresponding Unrestricted Use SCOs. Amongst these, arsenic ranged up to 3.4 mg/Kg, barium up to 16.8 mg/Kg, beryllium up to 0.19 mg/Kg, cadmium up to 0.81mg/Kg, chromium up to 4.5 mg/Kg, copper up to 7.7 mg/Kg, lead up to 8.6 mg/Kg (except the crushed stone had 147 mg/Kg), manganese up to 524 mg/Kg, nickel up to 4.9 mg/Kg, and zinc up to 199 mg/Kg.

SUMMARY: No PCBs, herbicides or cyanide were detected in the samples. All detected organics and metals were well below their corresponding unrestricted use SCOs. Based on these results, the native soil fill from the JRO Children's Hospital site, and crushed stone from LaFarge should be suitable for use at the 132 Dingens St. site.

TABLE 1
132 DINGENS STREET - BCP REMEDIATION
OFF-SITE NATIVE SOIL FILL (STOCKPILED ON SENECA ST., BUFFALO, NY)

SAMPLE TYPE/ ID	DER-10 SCOs		COMPOSITE SAMPLES (EXCL. VOCs)					GRAB SAMPLES (VOCs ONLY)										STONE
	UNRESTRICTED	RESTRICTED RESIDENTIAL	CHF-1	CHF-2	CHF-3	CHF-4	CHF-5	CHF-1A	CHF-1B	CHF-2A	CHF-2B	CHF-3A	CHF-3B	CHF-4A	CHF-4B	CHF-5A	CHF-5B	CRS-1
LAB BATCH NUMBER			77902															
Sample Date			4/7/2015															
Percent Solids (%)			91.6	92.4	93.5	90.7	91.4	92.5	93.4	93.4	91.8	94.1	92.1	88.7	91.8	91.5	88.9	98.2
VOLATILE ORGANICS (VOCs, ug/Kg)																		
Benzene	60	4,800	NA	NA	NA	NA	NA	0.68 J	0.45 J	0.46 J	0.42 J	0.44 J	0.74 J	0.50 J	0.79 J	0.45 J	0.49 J	ND
Methylene Chloride	50	100,000						3.0 JB	2.6 JB	2.5 JB	2.8 JB	2.5 JB	2.6 JB	3.0 JB	3.1 JB	2.6 JB	3.9 J	3.7 J
Styrene	--	--						ND	ND	ND	ND	ND	ND	0.29 J	ND	ND	ND	ND
Toluene	700	100,000						0.92 J	0.83 J	0.81 J	0.84 J	0.78 J	1.3 J	1.1 J	1.1 J	0.78 J	0.64 J	ND
SEMIVOLATILE ORGANICS (SVOCs, ug/Kg)																		
Bis(2-ethylhexyl) phthalate	--	--	100 JB	59 JB	51 JB	65 JB	84 JB	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	59 JB
Diethyl phthalate	--	--	42 J	ND	55 JB	63 JB	87 JB											41 JB
Di-n-butyl phthalate	--	--	17 JB	ND	ND	ND	ND											ND
Fluoranthene	100,000	100,000	28 J	ND	17 J	ND	41 J											ND
Phenanthrene	100,000		ND	ND	ND	ND	28 J											32 J
Pyrene	100,000	100,000	24 J	ND	ND	ND	34 J											ND
PESTICIDES (ug/Kg)																		
4,4'-DDE	3.3	8,900	0.43 J	0.40 J	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
4,4'-DDT	3.3	7,900	0.65 JB	ND	ND	ND	ND											ND
delta-BHC	40	360	0.45 J	0.46 J	ND	ND	ND											ND
Endosulfan sulfate	2,400	24,000	ND	ND	0.52 J	ND	ND											ND
Endrin Aldehyde	--	--	0.67 J	ND	ND	ND	ND											ND
HERBICIDES (ug/Kg)																		
			ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
PCBs (ug/Kg)																		
			ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND

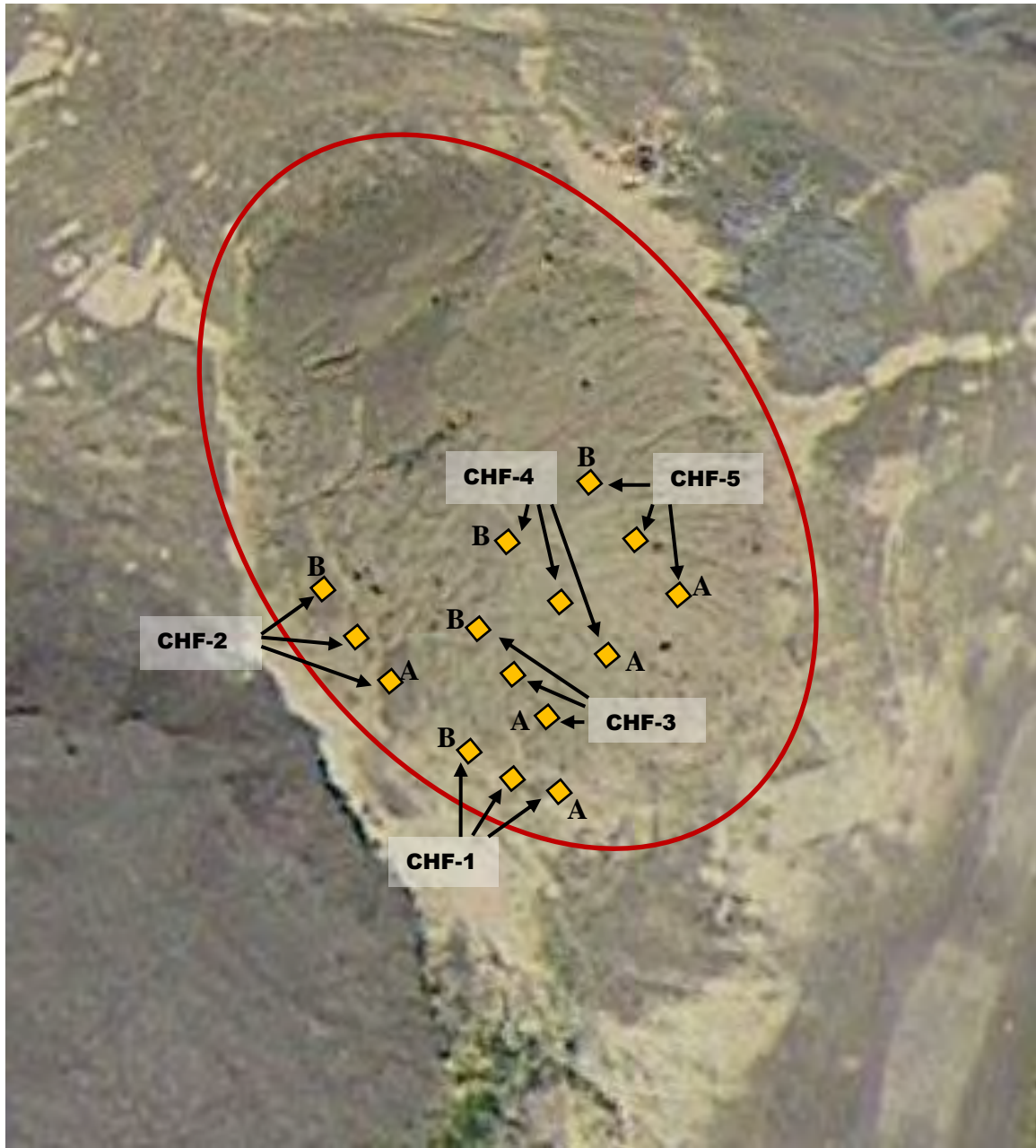
TABLE 1
132 DINGENS STREET - BCP REMEDIATION
OFF-SITE NATIVE SOIL FILL (STOCKPILED ON SENECA ST., BUFFALO, NY)

SAMPLE TYPE/ ID	DER-10 SCOs		COMPOSITE SAMPLES (EXCL. VOCs)					GRAB SAMPLES (VOCs ONLY)										STONE
	UNRESTRICTED	RESTRICTED RESIDENTIAL	CHF-1	CHF-2	CHF-3	CHF-4	CHF-5	CHF-1A	CHF-1B	CHF-2A	CHF-2B	CHF-3A	CHF-3B	CHF-4A	CHF-4B	CHF-5A	CHF-5B	CRS-1
METALS (mg/Kg)																		
Aluminum	--	--	2900 F1	2310	2980	2670	3100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2000
Antimony	--	--	ND	ND	ND	ND	ND											ND
Arsenic	13	16	1.5 J	1.2 J	2.1	1.2 J	1.6 J											3.4
Barium	350	350	12.8	10.2	12.7	13.2	15.1											16.8
Beryllium	7.2	14	0.19 J	0.14 J	0.18 J	0.15 J	0.18 J											0.12 J
Cadmium	2.5	2.5	0.21	0.20 J	0.18 J	0.20 J	0.18 J											0.81
Calcium	--	--	52600 B	44800 B	53400 B	47600 B	50700 B											184000 B
Chromium	30	36	4.1	3.3	4.0	4.0	4.5											4.4
Cobalt	--	--	1.9	1.7	2.2	2.0	2.1											1.4
Copper	50	270	7.4	6.2	7.7	6.1	7.0											3.5 J
Iron	--	--	5510 F1	4600	5960	5420	5960											6210
Lead	63	400	7.2 B	6.6 B	8.3 B	7.6 B	8.6 B											147 B
Magnesium	--	--	24300 B	20400	23300 B	21400 B	19300 B											114000 B
Manganese	1,600	2,000	239 B	195 B	218 B	213 B	215 B											524 B
Nickel	30	140	4.2 J	3.6 J	4.9 J	4.0 J	4.9 J											4.1 J
Potassium	--	--	787 F1	706	755	803	923											1270
Selenium	3.9	36	ND	ND	ND	ND	ND											ND
Silver	2	36	ND	ND	ND	ND	ND											ND
Sodium	--	--	173	142 J	165	256	203											242
Thallium	--	--	ND	ND	ND	ND	ND											ND
Vanadium	--	--	9.0	7.8	8.7	9.6	10.4											7.7
Zinc	109	2,200	68.4 BF1	60.7 B	70.4 B	67.1 B	65.4 B											199 B
Mercury	0.18	0.81	ND	ND	ND	ND	ND											ND
Total Cyanide (mg/Kg)	27	27	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND

Notes: 1. "NA" or "--" = not analyzed; "ND" = Not Detected

2. Only detected volatile and semivolatile compounds are listed; all metals analyzed are listed

Note: Background aerial photo is just to show location of stockpile;
see photo page showing actual stockpile



LEGEND	
	Stockpile limits
	Test pits

132 DINGENS STREET, BUFFALO, NY
NATIVE SOIL STOCKPILE SAMPLING (SENECA ST.)

FIGURE 1

IEG



1. View of Native Soil Stockpile at Seneca Street Site



2. One of the three Test Pits for Sample CHF-1



3. View of the Test Pits for Sample CHF-2



4. View of the Test Pits for Sample CHF-3



5 View of the Test Pits for Sample CHF-4



6. View of the Test Pits for Sample CHF-5

**NATIVE SOIL STOCKPILE
TEST PIT SAMPLING
SENECA ST., BUFFALO, NY**



SITE PHOTOGRAPHS

DATE: April 7, 2015

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-77902-1
Client Project/Site: 132 Dingens

For:
Iyer Environmental Group, LLC
44 Rolling Hills Drive
Orchard Park, New York 14127

Attn: Dr. Dharmarajan R Iyer



Authorized for release by:
4/20/2015 3:06:25 PM

Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

Melissa Deyo, Project Manager I
(716)504-9874
melissa.deyo@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery exceeds the control limits
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
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.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingsen

TestAmerica Job ID: 480-77902-1

Job ID: 480-77902-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-77902-1

Receipt

The samples were received on 4/7/2015 3:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 19.0° C.

GC/MS VOA

Method(s) 8260C: Reported analyte concentrations in the following samples are below 200ug/kg and may be biased low due to the samples not being collected according to 5035-L/5035A-L low-level specifications: CHF-1A (480-77902-6), CHF-1B (480-77902-7), CHF-2A (480-77902-8), CHF-2B (480-77902-9), CHF-3A (480-77902-10), (480-77902-B-6-B MS) and (480-77902-B-6-C MSD).

Method(s) 8260C: Reported analyte concentrations in the following samples are below 200ug/kg and may be biased low due to the samples not being collected according to 5035-L/5035A-L low-level specifications: CHF-3B (480-77902-11), CHF-4A (480-77902-12), CHF-4B (480-77902-13), CHF-5A (480-77902-14), CHF-5B (480-77902-15), CRS-1 (480-77902-16), (480-77902-A-15-B MS) and (480-77902-A-15-C MSD).

Method(s) 8260C: The laboratory control sample (LCS) for preparation batch 234987 recovered outside control limits for the following analyte: Cyclohexane. This was not a requested spike compound; therefore, the data have been qualified and reported. CHF-3B (480-77902-11), CHF-4A (480-77902-12), CHF-4B (480-77902-13), CHF-5A (480-77902-14), CHF-5B (480-77902-15) and CRS-1 (480-77902-16)

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

GC/MS Semi VOA

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

GC Semi VOA

Method(s) 8081B: The continuing calibration verification (CCV) (CCV 480-235402/16) for Toxaphene was decreased and exceeded control criteria of 20%D, though all associated samples did not show any potential pattern. The data has been reported.

Method(s) 8081B: All sample primary data is reported from RTX-CLPII column, with the exception of 4,4'-DDT, for which primary data is reported from the RTX-CLPI column due to CCV failure.

The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

Method(s) 8082A: All primary data is reported from the ZB-35 column.

Method(s) 8082A: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

Method(s) 8151A: All primary data is reported from the RTX-CLPI column.

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

Metals

Method(s) 6010C: The post digestion spike % recovery and serial dilution for manganese associated with batch 480-235162 was outside of control limits. Matrix effects are suspected.

Method(s) 6010C: The serial dilution performed for the following samples associated with batch 480-235162 was outside control limits for barium, calcium, cobalt, iron, magnesium, vanadium and zinc: (480-77902-A-1-B SD ^). However, the post spike was compliant, therefore, no corrective action is needed.

Method(s) 6010C: The following sample was diluted due to the presence of total calcium which interferes with copper: CRS-1 (480-77902-16). Elevated reporting limits (RLs) are provided.

Case Narrative

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingsens

TestAmerica Job ID: 480-77902-1

Job ID: 480-77902-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

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

General Chemistry

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

Organic Prep

Method(s) 3550C: Sample was made up with mostly large rocks. Took smallest particales possible for extraction
CRS-1 (480-77902-16)

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

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Detection Summary

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-1

Lab Sample ID: 480-77902-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	100	J B	370	23	ug/Kg	1	☼	8270D	Total/NA
Diethyl phthalate	42	J	370	17	ug/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	17	J B	370	17	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	28	J	370	13	ug/Kg	1	☼	8270D	Total/NA
Pyrene	24	J	370	16	ug/Kg	1	☼	8270D	Total/NA
4,4'-DDE	0.43	J	1.8	0.37	ug/Kg	1	☼	8081B	Total/NA
4,4'-DDT	0.65	J B	1.8	0.42	ug/Kg	1	☼	8081B	Total/NA
delta-BHC	0.45	J	1.8	0.33	ug/Kg	1	☼	8081B	Total/NA
Endrin aldehyde	0.67	J	1.8	0.45	ug/Kg	1	☼	8081B	Total/NA
Aluminum	2900	F1	10.2	4.5	mg/Kg	1	☼	6010C	Total/NA
Arsenic	1.5	J	2.0	0.41	mg/Kg	1	☼	6010C	Total/NA
Barium	12.8		0.51	0.11	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.19	J	0.20	0.029	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.21		0.20	0.031	mg/Kg	1	☼	6010C	Total/NA
Calcium	52600	B	51.1	3.4	mg/Kg	1	☼	6010C	Total/NA
Chromium	4.1		0.51	0.20	mg/Kg	1	☼	6010C	Total/NA
Cobalt	1.9		0.51	0.051	mg/Kg	1	☼	6010C	Total/NA
Copper	7.4		1.0	0.21	mg/Kg	1	☼	6010C	Total/NA
Iron	5510	F1	10.2	1.1	mg/Kg	1	☼	6010C	Total/NA
Lead	7.2	B	1.0	0.25	mg/Kg	1	☼	6010C	Total/NA
Magnesium	24300	B	20.4	0.95	mg/Kg	1	☼	6010C	Total/NA
Manganese	239	B	0.20	0.033	mg/Kg	1	☼	6010C	Total/NA
Nickel	4.2	J	5.1	0.23	mg/Kg	1	☼	6010C	Total/NA
Potassium	787	F1	30.6	20.4	mg/Kg	1	☼	6010C	Total/NA
Sodium	173		143	13.3	mg/Kg	1	☼	6010C	Total/NA
Vanadium	9.0		0.51	0.11	mg/Kg	1	☼	6010C	Total/NA
Zinc	68.4	B F1	2.0	0.16	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: CHF-2

Lab Sample ID: 480-77902-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	59	J B	350	22	ug/Kg	1	☼	8270D	Total/NA
4,4'-DDE	0.40	J	1.8	0.37	ug/Kg	1	☼	8081B	Total/NA
delta-BHC	0.46	J	1.8	0.33	ug/Kg	1	☼	8081B	Total/NA
Aluminum	2310		10.8	4.8	mg/Kg	1	☼	6010C	Total/NA
Arsenic	1.2	J	2.2	0.43	mg/Kg	1	☼	6010C	Total/NA
Barium	10.2		0.54	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.14	J	0.22	0.030	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.20	J	0.22	0.033	mg/Kg	1	☼	6010C	Total/NA
Calcium	44800	B	54.2	3.6	mg/Kg	1	☼	6010C	Total/NA
Chromium	3.3		0.54	0.22	mg/Kg	1	☼	6010C	Total/NA
Cobalt	1.7		0.54	0.054	mg/Kg	1	☼	6010C	Total/NA
Copper	6.2		1.1	0.23	mg/Kg	1	☼	6010C	Total/NA
Iron	4600		10.8	1.2	mg/Kg	1	☼	6010C	Total/NA
Lead	6.6	B	1.1	0.26	mg/Kg	1	☼	6010C	Total/NA
Magnesium	20400	B	21.7	1.0	mg/Kg	1	☼	6010C	Total/NA
Manganese	195	B	0.22	0.035	mg/Kg	1	☼	6010C	Total/NA
Nickel	3.6	J	5.4	0.25	mg/Kg	1	☼	6010C	Total/NA
Potassium	706		32.5	21.7	mg/Kg	1	☼	6010C	Total/NA
Sodium	142	J	152	14.1	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingsen

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-2 (Continued)

Lab Sample ID: 480-77902-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	7.8		0.54	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	60.7	B	2.2	0.17	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: CHF-3

Lab Sample ID: 480-77902-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	51	J B	350	22	ug/Kg	1	☼	8270D	Total/NA
Diethyl phthalate	55	J B	350	16	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	17	J	350	13	ug/Kg	1	☼	8270D	Total/NA
Endosulfan sulfate	0.52	J	1.8	0.33	ug/Kg	1	☼	8081B	Total/NA
Aluminum	2980		10.7	4.7	mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.1		2.1	0.43	mg/Kg	1	☼	6010C	Total/NA
Barium	12.7		0.53	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.18	J	0.21	0.030	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.18	J	0.21	0.032	mg/Kg	1	☼	6010C	Total/NA
Calcium	53400	B	53.5	3.5	mg/Kg	1	☼	6010C	Total/NA
Chromium	4.0		0.53	0.21	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.2		0.53	0.053	mg/Kg	1	☼	6010C	Total/NA
Copper	7.7		1.1	0.22	mg/Kg	1	☼	6010C	Total/NA
Iron	5960		10.7	1.2	mg/Kg	1	☼	6010C	Total/NA
Lead	8.3	B	1.1	0.26	mg/Kg	1	☼	6010C	Total/NA
Magnesium	23300	B	21.4	0.99	mg/Kg	1	☼	6010C	Total/NA
Manganese	218	B	0.21	0.034	mg/Kg	1	☼	6010C	Total/NA
Nickel	4.9	J	5.3	0.25	mg/Kg	1	☼	6010C	Total/NA
Potassium	755		32.1	21.4	mg/Kg	1	☼	6010C	Total/NA
Sodium	165		150	13.9	mg/Kg	1	☼	6010C	Total/NA
Vanadium	8.7		0.53	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	70.4	B	2.1	0.16	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: CHF-4

Lab Sample ID: 480-77902-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	65	J B	370	23	ug/Kg	1	☼	8270D	Total/NA
Diethyl phthalate	63	J B	370	17	ug/Kg	1	☼	8270D	Total/NA
Aluminum	2670		11.0	4.8	mg/Kg	1	☼	6010C	Total/NA
Arsenic	1.2	J	2.2	0.44	mg/Kg	1	☼	6010C	Total/NA
Barium	13.2		0.55	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.15	J	0.22	0.031	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.20	J	0.22	0.033	mg/Kg	1	☼	6010C	Total/NA
Calcium	47600	B	54.8	3.6	mg/Kg	1	☼	6010C	Total/NA
Chromium	4.0		0.55	0.22	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.0		0.55	0.055	mg/Kg	1	☼	6010C	Total/NA
Copper	6.1		1.1	0.23	mg/Kg	1	☼	6010C	Total/NA
Iron	5420		11.0	1.2	mg/Kg	1	☼	6010C	Total/NA
Lead	7.6	B	1.1	0.26	mg/Kg	1	☼	6010C	Total/NA
Magnesium	21400	B	21.9	1.0	mg/Kg	1	☼	6010C	Total/NA
Manganese	213	B	0.22	0.035	mg/Kg	1	☼	6010C	Total/NA
Nickel	4.0	J	5.5	0.25	mg/Kg	1	☼	6010C	Total/NA
Potassium	803		32.9	21.9	mg/Kg	1	☼	6010C	Total/NA
Sodium	256		154	14.3	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingsen

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-4 (Continued)

Lab Sample ID: 480-77902-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	9.6		0.55	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	67.1	B	2.2	0.17	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: CHF-5

Lab Sample ID: 480-77902-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	84	J B	370	23	ug/Kg	1	☼	8270D	Total/NA
Diethyl phthalate	87	J B	370	17	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	41	J	370	13	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	28	J	370	13	ug/Kg	1	☼	8270D	Total/NA
Pyrene	34	J	370	16	ug/Kg	1	☼	8270D	Total/NA
Aluminum	3100		11.1	4.9	mg/Kg	1	☼	6010C	Total/NA
Arsenic	1.6	J	2.2	0.44	mg/Kg	1	☼	6010C	Total/NA
Barium	15.1		0.56	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.18	J	0.22	0.031	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.18	J	0.22	0.033	mg/Kg	1	☼	6010C	Total/NA
Calcium	50700	B	55.6	3.7	mg/Kg	1	☼	6010C	Total/NA
Chromium	4.5		0.56	0.22	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.1		0.56	0.056	mg/Kg	1	☼	6010C	Total/NA
Copper	7.0		1.1	0.23	mg/Kg	1	☼	6010C	Total/NA
Iron	5960		11.1	1.2	mg/Kg	1	☼	6010C	Total/NA
Lead	8.6	B	1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	19300	B	22.2	1.0	mg/Kg	1	☼	6010C	Total/NA
Manganese	215	B	0.22	0.036	mg/Kg	1	☼	6010C	Total/NA
Nickel	4.9	J	5.6	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	923		33.4	22.2	mg/Kg	1	☼	6010C	Total/NA
Sodium	203		156	14.5	mg/Kg	1	☼	6010C	Total/NA
Vanadium	10.4		0.56	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	65.4	B	2.2	0.17	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: CHF-1A

Lab Sample ID: 480-77902-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.68	J	5.4	0.26	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	3.0	J B	5.4	2.5	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.92	J	5.4	0.41	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: CHF-1B

Lab Sample ID: 480-77902-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.45	J	5.3	0.26	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.6	J B	5.3	2.4	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.83	J	5.3	0.40	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: CHF-2A

Lab Sample ID: 480-77902-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.46	J	5.2	0.26	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.5	J B	5.2	2.4	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.81	J	5.2	0.39	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingsen

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-2B

Lab Sample ID: 480-77902-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.42	J	5.3	0.26	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.8	J B	5.3	2.4	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.84	J	5.3	0.40	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: CHF-3A

Lab Sample ID: 480-77902-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.44	J	5.2	0.26	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.5	J B	5.2	2.4	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.78	J	5.2	0.40	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: CHF-3B

Lab Sample ID: 480-77902-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.74	J	5.2	0.26	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.6	J B	5.2	2.4	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.3	J	5.2	0.40	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: CHF-4A

Lab Sample ID: 480-77902-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.50	J	5.4	0.27	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	3.0	J B	5.4	2.5	ug/Kg	1	☼	8260C	Total/NA
Styrene	0.29	J	5.4	0.27	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.1	J	5.4	0.41	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: CHF-4B

Lab Sample ID: 480-77902-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.79	J	5.4	0.26	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	3.1	J B	5.4	2.5	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.1	J	5.4	0.41	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: CHF-5A

Lab Sample ID: 480-77902-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.45	J	5.3	0.26	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.6	J B	5.3	2.4	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.78	J	5.3	0.40	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: CHF-5B

Lab Sample ID: 480-77902-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.49	J	5.5	0.27	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	3.9	J	5.5	2.5	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.64	J	5.5	0.42	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: CRS-1

Lab Sample ID: 480-77902-16

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Iyer Environmental Group, LLC
 Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CRS-1 (Continued)

Lab Sample ID: 480-77902-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methylene Chloride	3.7	J	5.0	2.3	ug/Kg	1		*	8260C	Total/NA
Bis(2-ethylhexyl) phthalate	59	J B	340	22	ug/Kg	1		*	8270D	Total/NA
Diethyl phthalate	41	J B	340	16	ug/Kg	1		*	8270D	Total/NA
Phenanthrene	32	J	340	13	ug/Kg	1		*	8270D	Total/NA
Aluminum	2000		11.0	4.8	mg/Kg	1		*	6010C	Total/NA
Arsenic	3.4		2.2	0.44	mg/Kg	1		*	6010C	Total/NA
Barium	16.8		0.55	0.12	mg/Kg	1		*	6010C	Total/NA
Beryllium	0.12	J	0.22	0.031	mg/Kg	1		*	6010C	Total/NA
Cadmium	0.81		0.22	0.033	mg/Kg	1		*	6010C	Total/NA
Calcium	184000	B	275	18.1	mg/Kg	5		*	6010C	Total/NA
Chromium	4.4		0.55	0.22	mg/Kg	1		*	6010C	Total/NA
Cobalt	1.4		0.55	0.055	mg/Kg	1		*	6010C	Total/NA
Copper	3.5	J	5.5	1.2	mg/Kg	5		*	6010C	Total/NA
Iron	6210		11.0	1.2	mg/Kg	1		*	6010C	Total/NA
Lead	147	B	1.1	0.26	mg/Kg	1		*	6010C	Total/NA
Magnesium	114000	B	110	5.1	mg/Kg	5		*	6010C	Total/NA
Manganese	524	B	0.22	0.035	mg/Kg	1		*	6010C	Total/NA
Nickel	4.1	J	5.5	0.25	mg/Kg	1		*	6010C	Total/NA
Potassium	1270		33.0	22.0	mg/Kg	1		*	6010C	Total/NA
Sodium	242		154	14.3	mg/Kg	1		*	6010C	Total/NA
Vanadium	7.7		0.55	0.12	mg/Kg	1		*	6010C	Total/NA
Zinc	199	B	2.2	0.17	mg/Kg	1		*	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
 Project/Site: 132 Dingsen

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-1

Lab Sample ID: 480-77902-1

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 91.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		920	38	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
2,4,6-Trichlorophenol	ND		370	38	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
2,4-Dichlorophenol	ND		370	37	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
2,4-Dimethylphenol	ND		370	58	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
2,4-Dinitrophenol	ND		920	160	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
2,4-Dinitrotoluene	ND		370	27	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
2,6-Dinitrotoluene	ND		370	33	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
2-Chloronaphthalene	ND		370	48	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
2-Chlorophenol	ND		370	38	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
2-Methylnaphthalene	ND		370	17	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
2-Methylphenol	ND		370	44	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
2-Nitroaniline	ND		920	41	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
2-Nitrophenol	ND		370	41	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
3 & 4 Methylphenol	ND		750	82	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
3,3'-Dichlorobenzidine	ND		370	53	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
3-Nitroaniline	ND		920	42	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
4,6-Dinitro-2-methylphenol	ND		920	110	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
4-Bromophenyl phenyl ether	ND		370	20	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
4-Chloro-3-methylphenol	ND		370	44	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
4-Chloroaniline	ND		370	36	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
4-Chlorophenyl phenyl ether	ND		370	17	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
4-Nitroaniline	ND		920	36	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
4-Nitrophenol	ND		920	93	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
Acenaphthene	ND		370	14	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
Acenaphthylene	ND		370	17	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
Acetophenone	ND		370	18	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
Anthracene	ND		370	16	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
Atrazine	ND		370	18	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
Benzaldehyde	ND		370	18	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
Benzo(a)anthracene	ND		370	14	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
Benzo(a)pyrene	ND		370	13	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
Benzo(b)fluoranthene	ND		370	26	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
Benzo(g,h,i)perylene	ND		370	14	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
Benzo(k)fluoranthene	ND		370	33	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
Biphenyl	ND		370	17	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
bis (2-chloroisopropyl) ether	ND		370	18	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
Bis(2-chloroethoxy)methane	ND		370	17	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
Bis(2-chloroethyl)ether	ND		370	17	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
Bis(2-ethylhexyl) phthalate	100	J B	370	23	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
Butyl benzyl phthalate	ND		370	22	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
Caprolactam	ND		370	39	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
Carbazole	ND		370	17	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
Chrysene	ND		370	20	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
Dibenz(a,h)anthracene	ND		370	12	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
Dibenzofuran	ND		370	18	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
Diethyl phthalate	42	J	370	17	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
Dimethyl phthalate	ND		370	17	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
Di-n-butyl phthalate	17	J B	370	17	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1
Di-n-octyl phthalate	ND		370	26	ug/Kg	*	04/13/15 08:37	04/14/15 10:14	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-1

Lab Sample ID: 480-77902-1

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 91.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	28	J	370	13	ug/Kg	☼	04/13/15 08:37	04/14/15 10:14	1
Fluorene	ND		370	17	ug/Kg	☼	04/13/15 08:37	04/14/15 10:14	1
Hexachlorobenzene	ND		370	51	ug/Kg	☼	04/13/15 08:37	04/14/15 10:14	1
Hexachlorobutadiene	ND		370	39	ug/Kg	☼	04/13/15 08:37	04/14/15 10:14	1
Hexachlorocyclopentadiene	ND		370	72	ug/Kg	☼	04/13/15 08:37	04/14/15 10:14	1
Hexachloroethane	ND		370	38	ug/Kg	☼	04/13/15 08:37	04/14/15 10:14	1
Indeno(1,2,3-cd)pyrene	ND		370	16	ug/Kg	☼	04/13/15 08:37	04/14/15 10:14	1
Isophorone	ND		370	47	ug/Kg	☼	04/13/15 08:37	04/14/15 10:14	1
Naphthalene	ND		370	17	ug/Kg	☼	04/13/15 08:37	04/14/15 10:14	1
Nitrobenzene	ND		370	46	ug/Kg	☼	04/13/15 08:37	04/14/15 10:14	1
N-Nitrosodi-n-propylamine	ND		370	51	ug/Kg	☼	04/13/15 08:37	04/14/15 10:14	1
N-Nitrosodiphenylamine	ND		370	18	ug/Kg	☼	04/13/15 08:37	04/14/15 10:14	1
Pentachlorophenol	ND		920	76	ug/Kg	☼	04/13/15 08:37	04/14/15 10:14	1
Phenanthrene	ND		370	13	ug/Kg	☼	04/13/15 08:37	04/14/15 10:14	1
Phenol	ND		370	44	ug/Kg	☼	04/13/15 08:37	04/14/15 10:14	1
Pyrene	24	J	370	16	ug/Kg	☼	04/13/15 08:37	04/14/15 10:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>2,4,6-Tribromophenol</i>	76		25 - 135				04/13/15 08:37	04/14/15 10:14	1
<i>2-Fluorobiphenyl</i>	86		35 - 110				04/13/15 08:37	04/14/15 10:14	1
<i>2-Fluorophenol</i>	85		30 - 135				04/13/15 08:37	04/14/15 10:14	1
<i>Nitrobenzene-d5</i>	74		35 - 110				04/13/15 08:37	04/14/15 10:14	1
<i>Phenol-d5</i>	86		30 - 130				04/13/15 08:37	04/14/15 10:14	1
<i>Terphenyl-d14 (Surr)</i>	83		30 - 130				04/13/15 08:37	04/14/15 10:14	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.8	0.35	ug/Kg	☼	04/09/15 16:11	04/10/15 14:50	1
4,4'-DDE	0.43	J	1.8	0.37	ug/Kg	☼	04/09/15 16:11	04/10/15 14:50	1
4,4'-DDT	0.65	J B	1.8	0.42	ug/Kg	☼	04/09/15 16:11	04/10/15 14:50	1
Aldrin	ND		1.8	0.44	ug/Kg	☼	04/09/15 16:11	04/10/15 14:50	1
alpha-BHC	ND		1.8	0.32	ug/Kg	☼	04/09/15 16:11	04/10/15 14:50	1
alpha-Chlordane	ND		1.8	0.89	ug/Kg	☼	04/09/15 16:11	04/10/15 14:50	1
beta-BHC	ND		1.8	0.32	ug/Kg	☼	04/09/15 16:11	04/10/15 14:50	1
delta-BHC	0.45	J	1.8	0.33	ug/Kg	☼	04/09/15 16:11	04/10/15 14:50	1
Dieldrin	ND		1.8	0.43	ug/Kg	☼	04/09/15 16:11	04/10/15 14:50	1
Endosulfan I	ND		1.8	0.34	ug/Kg	☼	04/09/15 16:11	04/10/15 14:50	1
Endosulfan II	ND		1.8	0.32	ug/Kg	☼	04/09/15 16:11	04/10/15 14:50	1
Endosulfan sulfate	ND		1.8	0.33	ug/Kg	☼	04/09/15 16:11	04/10/15 14:50	1
Endrin	ND		1.8	0.35	ug/Kg	☼	04/09/15 16:11	04/10/15 14:50	1
Endrin aldehyde	0.67	J	1.8	0.45	ug/Kg	☼	04/09/15 16:11	04/10/15 14:50	1
Endrin ketone	ND		1.8	0.44	ug/Kg	☼	04/09/15 16:11	04/10/15 14:50	1
gamma-BHC (Lindane)	ND		1.8	0.33	ug/Kg	☼	04/09/15 16:11	04/10/15 14:50	1
gamma-Chlordane	ND		1.8	0.57	ug/Kg	☼	04/09/15 16:11	04/10/15 14:50	1
Heptachlor	ND		1.8	0.39	ug/Kg	☼	04/09/15 16:11	04/10/15 14:50	1
Heptachlor epoxide	ND		1.8	0.46	ug/Kg	☼	04/09/15 16:11	04/10/15 14:50	1
Methoxychlor	ND		1.8	0.36	ug/Kg	☼	04/09/15 16:11	04/10/15 14:50	1
Toxaphene	ND		18	10	ug/Kg	☼	04/09/15 16:11	04/10/15 14:50	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-1

Lab Sample ID: 480-77902-1

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 91.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	84		32 - 136	04/09/15 16:11	04/10/15 14:50	1
Tetrachloro-m-xylene	83		30 - 124	04/09/15 16:11	04/10/15 14:50	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.050	mg/Kg	☼	04/09/15 17:30	04/10/15 14:45	1
PCB-1221	ND		0.26	0.050	mg/Kg	☼	04/09/15 17:30	04/10/15 14:45	1
PCB-1232	ND		0.26	0.050	mg/Kg	☼	04/09/15 17:30	04/10/15 14:45	1
PCB-1242	ND		0.26	0.050	mg/Kg	☼	04/09/15 17:30	04/10/15 14:45	1
PCB-1248	ND		0.26	0.050	mg/Kg	☼	04/09/15 17:30	04/10/15 14:45	1
PCB-1254	ND		0.26	0.12	mg/Kg	☼	04/09/15 17:30	04/10/15 14:45	1
PCB-1260	ND		0.26	0.12	mg/Kg	☼	04/09/15 17:30	04/10/15 14:45	1
PCB-1262	ND		0.26	0.12	mg/Kg	☼	04/09/15 17:30	04/10/15 14:45	1
PCB-1268	ND		0.26	0.12	mg/Kg	☼	04/09/15 17:30	04/10/15 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	99		46 - 175	04/09/15 17:30	04/10/15 14:45	1
DCB Decachlorobiphenyl	99		47 - 176	04/09/15 17:30	04/10/15 14:45	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		18	5.7	ug/Kg	☼	04/08/15 11:35	04/17/15 05:22	1
2,4-D	ND		18	11	ug/Kg	☼	04/08/15 11:35	04/17/15 05:22	1
Silvex (2,4,5-TP)	ND		18	6.4	ug/Kg	☼	04/08/15 11:35	04/17/15 05:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	76		39 - 120	04/08/15 11:35	04/17/15 05:22	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2900	F1	10.2	4.5	mg/Kg	☼	04/09/15 15:30	04/10/15 21:24	1
Antimony	ND		15.3	0.41	mg/Kg	☼	04/09/15 15:30	04/10/15 21:24	1
Arsenic	1.5	J	2.0	0.41	mg/Kg	☼	04/09/15 15:30	04/11/15 18:06	1
Barium	12.8		0.51	0.11	mg/Kg	☼	04/09/15 15:30	04/11/15 18:06	1
Beryllium	0.19	J	0.20	0.029	mg/Kg	☼	04/09/15 15:30	04/10/15 21:24	1
Cadmium	0.21		0.20	0.031	mg/Kg	☼	04/09/15 15:30	04/10/15 21:24	1
Calcium	52600	B	51.1	3.4	mg/Kg	☼	04/09/15 15:30	04/10/15 21:24	1
Chromium	4.1		0.51	0.20	mg/Kg	☼	04/09/15 15:30	04/10/15 21:24	1
Cobalt	1.9		0.51	0.051	mg/Kg	☼	04/09/15 15:30	04/10/15 21:24	1
Copper	7.4		1.0	0.21	mg/Kg	☼	04/09/15 15:30	04/10/15 21:24	1
Iron	5510	F1	10.2	1.1	mg/Kg	☼	04/09/15 15:30	04/10/15 21:24	1
Lead	7.2	B	1.0	0.25	mg/Kg	☼	04/09/15 15:30	04/10/15 21:24	1
Magnesium	24300	B	20.4	0.95	mg/Kg	☼	04/09/15 15:30	04/10/15 21:24	1
Manganese	239	B	0.20	0.033	mg/Kg	☼	04/09/15 15:30	04/10/15 21:24	1
Nickel	4.2	J	5.1	0.23	mg/Kg	☼	04/09/15 15:30	04/10/15 21:24	1
Potassium	787	F1	30.6	20.4	mg/Kg	☼	04/09/15 15:30	04/10/15 21:24	1
Selenium	ND		4.1	0.41	mg/Kg	☼	04/09/15 15:30	04/10/15 21:24	1
Silver	ND	F2	0.51	0.20	mg/Kg	☼	04/09/15 15:30	04/10/15 21:24	1
Sodium	173		143	13.3	mg/Kg	☼	04/09/15 15:30	04/10/15 21:24	1
Thallium	ND		6.1	0.31	mg/Kg	☼	04/09/15 15:30	04/10/15 21:24	1
Vanadium	9.0		0.51	0.11	mg/Kg	☼	04/09/15 15:30	04/10/15 21:24	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
 Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-1

Lab Sample ID: 480-77902-1

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 91.6

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	68.4	B F1	2.0	0.16	mg/Kg	☼	04/09/15 15:30	04/10/15 21:24	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.022	0.0090	mg/Kg	☼	04/16/15 14:35	04/16/15 15:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.1	0.53	mg/Kg	☼	04/14/15 15:30	04/15/15 13:16	1

Client Sample ID: CHF-2

Lab Sample ID: 480-77902-2

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 92.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		880	36	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
2,4,6-Trichlorophenol	ND		350	36	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
2,4-Dichlorophenol	ND		350	35	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
2,4-Dimethylphenol	ND		350	55	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
2,4-Dinitrophenol	ND		880	150	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
2,4-Dinitrotoluene	ND		350	26	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
2,6-Dinitrotoluene	ND		350	32	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
2-Chloronaphthalene	ND		350	46	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
2-Chlorophenol	ND		350	36	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
2-Methylnaphthalene	ND		350	16	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
2-Methylphenol	ND		350	43	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
2-Nitroaniline	ND		880	39	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
2-Nitrophenol	ND		350	39	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
3 & 4 Methylphenol	ND		710	79	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
3,3'-Dichlorobenzidine	ND		350	51	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
3-Nitroaniline	ND		880	41	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
4,6-Dinitro-2-methylphenol	ND		880	100	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
4-Bromophenyl phenyl ether	ND		350	19	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
4-Chloro-3-methylphenol	ND		350	43	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
4-Chloroaniline	ND		350	34	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
4-Chlorophenyl phenyl ether	ND		350	16	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
4-Nitroaniline	ND		880	34	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
4-Nitrophenol	ND		880	90	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Acenaphthene	ND		350	14	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Acenaphthylene	ND		350	16	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Acetophenone	ND		350	17	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Anthracene	ND		350	15	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Atrazine	ND		350	17	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Benzaldehyde	ND		350	17	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Benzo(a)anthracene	ND		350	14	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Benzo(a)pyrene	ND		350	13	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Benzo(b)fluoranthene	ND		350	25	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Benzo(g,h,i)perylene	ND		350	14	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Benzo(k)fluoranthene	ND		350	32	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-2

Lab Sample ID: 480-77902-2

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 92.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		350	16	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
bis (2-chloroisopropyl) ether	ND		350	17	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Bis(2-chloroethoxy)methane	ND		350	16	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Bis(2-chloroethyl)ether	ND		350	16	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Bis(2-ethylhexyl) phthalate	59	J B	350	22	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Butyl benzyl phthalate	ND		350	21	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Caprolactam	ND		350	37	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Carbazole	ND		350	16	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Chrysene	ND		350	19	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Dibenz(a,h)anthracene	ND		350	12	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Dibenzofuran	ND		350	17	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Diethyl phthalate	ND		350	16	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Dimethyl phthalate	ND		350	16	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Di-n-butyl phthalate	ND		350	16	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Di-n-octyl phthalate	ND		350	25	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Fluoranthene	ND		350	13	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Fluorene	ND		350	16	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Hexachlorobenzene	ND		350	49	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Hexachlorobutadiene	ND		350	37	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Hexachlorocyclopentadiene	ND		350	69	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Hexachloroethane	ND		350	36	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Indeno(1,2,3-cd)pyrene	ND		350	15	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Isophorone	ND		350	45	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Naphthalene	ND		350	16	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Nitrobenzene	ND		350	44	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
N-Nitrosodi-n-propylamine	ND		350	49	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
N-Nitrosodiphenylamine	ND		350	17	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Pentachlorophenol	ND		880	73	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Phenanthrene	ND		350	13	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Phenol	ND		350	43	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1
Pyrene	ND		350	15	ug/Kg	☼	04/13/15 08:37	04/14/15 12:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	79		25 - 135	04/13/15 08:37	04/14/15 12:19	1
2-Fluorobiphenyl	87		35 - 110	04/13/15 08:37	04/14/15 12:19	1
2-Fluorophenol	87		30 - 135	04/13/15 08:37	04/14/15 12:19	1
Nitrobenzene-d5	75		35 - 110	04/13/15 08:37	04/14/15 12:19	1
Phenol-d5	92		30 - 130	04/13/15 08:37	04/14/15 12:19	1
Terphenyl-d14 (Surr)	85		30 - 130	04/13/15 08:37	04/14/15 12:19	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.8	0.35	ug/Kg	☼	04/09/15 16:11	04/10/15 15:07	1
4,4'-DDE	0.40	J	1.8	0.37	ug/Kg	☼	04/09/15 16:11	04/10/15 15:07	1
4,4'-DDT	ND		1.8	0.42	ug/Kg	☼	04/09/15 16:11	04/10/15 15:07	1
Aldrin	ND		1.8	0.44	ug/Kg	☼	04/09/15 16:11	04/10/15 15:07	1
alpha-BHC	ND		1.8	0.32	ug/Kg	☼	04/09/15 16:11	04/10/15 15:07	1
alpha-Chlordane	ND		1.8	0.88	ug/Kg	☼	04/09/15 16:11	04/10/15 15:07	1
beta-BHC	ND		1.8	0.32	ug/Kg	☼	04/09/15 16:11	04/10/15 15:07	1
delta-BHC	0.46	J	1.8	0.33	ug/Kg	☼	04/09/15 16:11	04/10/15 15:07	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingsen

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-2

Lab Sample ID: 480-77902-2

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 92.4

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	ND		1.8	0.43	ug/Kg	☼	04/09/15 16:11	04/10/15 15:07	1
Endosulfan I	ND		1.8	0.34	ug/Kg	☼	04/09/15 16:11	04/10/15 15:07	1
Endosulfan II	ND		1.8	0.32	ug/Kg	☼	04/09/15 16:11	04/10/15 15:07	1
Endosulfan sulfate	ND		1.8	0.33	ug/Kg	☼	04/09/15 16:11	04/10/15 15:07	1
Endrin	ND		1.8	0.35	ug/Kg	☼	04/09/15 16:11	04/10/15 15:07	1
Endrin aldehyde	ND		1.8	0.45	ug/Kg	☼	04/09/15 16:11	04/10/15 15:07	1
Endrin ketone	ND		1.8	0.44	ug/Kg	☼	04/09/15 16:11	04/10/15 15:07	1
gamma-BHC (Lindane)	ND		1.8	0.33	ug/Kg	☼	04/09/15 16:11	04/10/15 15:07	1
gamma-Chlordane	ND		1.8	0.56	ug/Kg	☼	04/09/15 16:11	04/10/15 15:07	1
Heptachlor	ND		1.8	0.38	ug/Kg	☼	04/09/15 16:11	04/10/15 15:07	1
Heptachlor epoxide	ND		1.8	0.46	ug/Kg	☼	04/09/15 16:11	04/10/15 15:07	1
Methoxychlor	ND		1.8	0.36	ug/Kg	☼	04/09/15 16:11	04/10/15 15:07	1
Toxaphene	ND		18	10	ug/Kg	☼	04/09/15 16:11	04/10/15 15:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	90		32 - 136				04/09/15 16:11	04/10/15 15:07	1
Tetrachloro-m-xylene	86		30 - 124				04/09/15 16:11	04/10/15 15:07	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.041	mg/Kg	☼	04/09/15 17:30	04/10/15 15:17	1
PCB-1221	ND		0.21	0.041	mg/Kg	☼	04/09/15 17:30	04/10/15 15:17	1
PCB-1232	ND		0.21	0.041	mg/Kg	☼	04/09/15 17:30	04/10/15 15:17	1
PCB-1242	ND		0.21	0.041	mg/Kg	☼	04/09/15 17:30	04/10/15 15:17	1
PCB-1248	ND		0.21	0.041	mg/Kg	☼	04/09/15 17:30	04/10/15 15:17	1
PCB-1254	ND		0.21	0.099	mg/Kg	☼	04/09/15 17:30	04/10/15 15:17	1
PCB-1260	ND		0.21	0.099	mg/Kg	☼	04/09/15 17:30	04/10/15 15:17	1
PCB-1262	ND		0.21	0.099	mg/Kg	☼	04/09/15 17:30	04/10/15 15:17	1
PCB-1268	ND		0.21	0.099	mg/Kg	☼	04/09/15 17:30	04/10/15 15:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	105		46 - 175				04/09/15 17:30	04/10/15 15:17	1
DCB Decachlorobiphenyl	94		47 - 176				04/09/15 17:30	04/10/15 15:17	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		18	5.7	ug/Kg	☼	04/08/15 11:35	04/17/15 05:51	1
2,4-D	ND		18	11	ug/Kg	☼	04/08/15 11:35	04/17/15 05:51	1
Silvex (2,4,5-TP)	ND		18	6.4	ug/Kg	☼	04/08/15 11:35	04/17/15 05:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	73		39 - 120				04/08/15 11:35	04/17/15 05:51	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2310		10.8	4.8	mg/Kg	☼	04/09/15 15:30	04/10/15 21:38	1
Antimony	ND		16.3	0.43	mg/Kg	☼	04/09/15 15:30	04/10/15 21:38	1
Arsenic	1.2	J	2.2	0.43	mg/Kg	☼	04/09/15 15:30	04/11/15 18:20	1
Barium	10.2		0.54	0.12	mg/Kg	☼	04/09/15 15:30	04/11/15 18:20	1
Beryllium	0.14	J	0.22	0.030	mg/Kg	☼	04/09/15 15:30	04/10/15 21:38	1
Cadmium	0.20	J	0.22	0.033	mg/Kg	☼	04/09/15 15:30	04/10/15 21:38	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
 Project/Site: 132 Dings

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-2

Lab Sample ID: 480-77902-2

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 92.4

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	44800	B	54.2	3.6	mg/Kg	☼	04/09/15 15:30	04/10/15 21:38	1
Chromium	3.3		0.54	0.22	mg/Kg	☼	04/09/15 15:30	04/10/15 21:38	1
Cobalt	1.7		0.54	0.054	mg/Kg	☼	04/09/15 15:30	04/10/15 21:38	1
Copper	6.2		1.1	0.23	mg/Kg	☼	04/09/15 15:30	04/10/15 21:38	1
Iron	4600		10.8	1.2	mg/Kg	☼	04/09/15 15:30	04/10/15 21:38	1
Lead	6.6	B	1.1	0.26	mg/Kg	☼	04/09/15 15:30	04/10/15 21:38	1
Magnesium	20400	B	21.7	1.0	mg/Kg	☼	04/09/15 15:30	04/10/15 21:38	1
Manganese	195	B	0.22	0.035	mg/Kg	☼	04/09/15 15:30	04/10/15 21:38	1
Nickel	3.6	J	5.4	0.25	mg/Kg	☼	04/09/15 15:30	04/10/15 21:38	1
Potassium	706		32.5	21.7	mg/Kg	☼	04/09/15 15:30	04/10/15 21:38	1
Selenium	ND		4.3	0.43	mg/Kg	☼	04/09/15 15:30	04/10/15 21:38	1
Silver	ND		0.54	0.22	mg/Kg	☼	04/09/15 15:30	04/10/15 21:38	1
Sodium	142	J	152	14.1	mg/Kg	☼	04/09/15 15:30	04/10/15 21:38	1
Thallium	ND		6.5	0.33	mg/Kg	☼	04/09/15 15:30	04/10/15 21:38	1
Vanadium	7.8		0.54	0.12	mg/Kg	☼	04/09/15 15:30	04/10/15 21:38	1
Zinc	60.7	B	2.2	0.17	mg/Kg	☼	04/09/15 15:30	04/10/15 21:38	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.022	0.0089	mg/Kg	☼	04/16/15 14:35	04/16/15 15:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.1	0.51	mg/Kg	☼	04/10/15 15:51	04/11/15 11:02	1

Client Sample ID: CHF-3

Lab Sample ID: 480-77902-3

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 93.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		870	36	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
2,4,6-Trichlorophenol	ND		350	36	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
2,4-Dichlorophenol	ND		350	35	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
2,4-Dimethylphenol	ND		350	55	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
2,4-Dinitrophenol	ND		870	150	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
2,4-Dinitrotoluene	ND		350	25	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
2,6-Dinitrotoluene	ND		350	32	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
2-Chloronaphthalene	ND		350	45	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
2-Chlorophenol	ND		350	36	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
2-Methylnaphthalene	ND		350	16	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
2-Methylphenol	ND		350	42	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
2-Nitroaniline	ND		870	39	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
2-Nitrophenol	ND		350	39	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
3 & 4 Methylphenol	ND		700	78	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
3,3'-Dichlorobenzidine	ND		350	50	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
3-Nitroaniline	ND		870	40	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
4,6-Dinitro-2-methylphenol	ND		870	100	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
4-Bromophenyl phenyl ether	ND		350	19	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
4-Chloro-3-methylphenol	ND		350	42	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-3

Lab Sample ID: 480-77902-3

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 93.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		350	34	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
4-Chlorophenyl phenyl ether	ND		350	16	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
4-Nitroaniline	ND		870	34	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
4-Nitrophenol	ND		870	88	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Acenaphthene	ND		350	14	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Acenaphthylene	ND		350	16	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Acetophenone	ND		350	17	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Anthracene	ND		350	15	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Atrazine	ND		350	17	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Benzaldehyde	ND		350	17	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Benzo(a)anthracene	ND		350	14	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Benzo(a)pyrene	ND		350	13	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Benzo(b)fluoranthene	ND		350	24	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Benzo(g,h,i)perylene	ND		350	14	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Benzo(k)fluoranthene	ND		350	32	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Biphenyl	ND		350	16	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
bis (2-chloroisopropyl) ether	ND		350	17	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Bis(2-chloroethoxy)methane	ND		350	16	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Bis(2-chloroethyl)ether	ND		350	16	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Bis(2-ethylhexyl) phthalate	51	J B	350	22	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Butyl benzyl phthalate	ND		350	21	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Caprolactam	ND		350	37	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Carbazole	ND		350	16	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Chrysene	ND		350	19	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Dibenz(a,h)anthracene	ND		350	12	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Dibenzofuran	ND		350	17	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Diethyl phthalate	55	J B	350	16	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Dimethyl phthalate	ND		350	16	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Di-n-butyl phthalate	ND		350	16	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Di-n-octyl phthalate	ND		350	24	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Fluoranthene	17	J	350	13	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Fluorene	ND		350	16	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Hexachlorobenzene	ND		350	48	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Hexachlorobutadiene	ND		350	37	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Hexachlorocyclopentadiene	ND		350	68	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Hexachloroethane	ND		350	36	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Indeno(1,2,3-cd)pyrene	ND		350	15	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Isophorone	ND		350	44	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Naphthalene	ND		350	16	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Nitrobenzene	ND		350	43	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
N-Nitrosodi-n-propylamine	ND		350	48	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
N-Nitrosodiphenylamine	ND		350	17	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Pentachlorophenol	ND		870	71	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Phenanthrene	ND		350	13	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Phenol	ND		350	42	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Pyrene	ND		350	15	ug/Kg	☼	04/13/15 08:37	04/14/15 13:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	80		25 - 135				04/13/15 08:37	04/14/15 13:01	1
2-Fluorobiphenyl	88		35 - 110				04/13/15 08:37	04/14/15 13:01	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-3

Lab Sample ID: 480-77902-3

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 93.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	87		30 - 135	04/13/15 08:37	04/14/15 13:01	1
Nitrobenzene-d5	74		35 - 110	04/13/15 08:37	04/14/15 13:01	1
Phenol-d5	90		30 - 130	04/13/15 08:37	04/14/15 13:01	1
Terphenyl-d14 (Surr)	85		30 - 130	04/13/15 08:37	04/14/15 13:01	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.8	0.34	ug/Kg	☼	04/09/15 16:11	04/10/15 15:25	1
4,4'-DDE	ND		1.8	0.37	ug/Kg	☼	04/09/15 16:11	04/10/15 15:25	1
4,4'-DDT	ND		1.8	0.41	ug/Kg	☼	04/09/15 16:11	04/10/15 15:25	1
Aldrin	ND		1.8	0.43	ug/Kg	☼	04/09/15 16:11	04/10/15 15:25	1
alpha-BHC	ND		1.8	0.32	ug/Kg	☼	04/09/15 16:11	04/10/15 15:25	1
alpha-Chlordane	ND		1.8	0.88	ug/Kg	☼	04/09/15 16:11	04/10/15 15:25	1
beta-BHC	ND		1.8	0.32	ug/Kg	☼	04/09/15 16:11	04/10/15 15:25	1
delta-BHC	ND		1.8	0.33	ug/Kg	☼	04/09/15 16:11	04/10/15 15:25	1
Dieldrin	ND		1.8	0.42	ug/Kg	☼	04/09/15 16:11	04/10/15 15:25	1
Endosulfan I	ND		1.8	0.34	ug/Kg	☼	04/09/15 16:11	04/10/15 15:25	1
Endosulfan II	ND		1.8	0.32	ug/Kg	☼	04/09/15 16:11	04/10/15 15:25	1
Endosulfan sulfate	0.52	J	1.8	0.33	ug/Kg	☼	04/09/15 16:11	04/10/15 15:25	1
Endrin	ND		1.8	0.35	ug/Kg	☼	04/09/15 16:11	04/10/15 15:25	1
Endrin aldehyde	ND		1.8	0.45	ug/Kg	☼	04/09/15 16:11	04/10/15 15:25	1
Endrin ketone	ND		1.8	0.43	ug/Kg	☼	04/09/15 16:11	04/10/15 15:25	1
gamma-BHC (Lindane)	ND		1.8	0.32	ug/Kg	☼	04/09/15 16:11	04/10/15 15:25	1
gamma-Chlordane	ND		1.8	0.56	ug/Kg	☼	04/09/15 16:11	04/10/15 15:25	1
Heptachlor	ND		1.8	0.38	ug/Kg	☼	04/09/15 16:11	04/10/15 15:25	1
Heptachlor epoxide	ND		1.8	0.45	ug/Kg	☼	04/09/15 16:11	04/10/15 15:25	1
Methoxychlor	ND		1.8	0.36	ug/Kg	☼	04/09/15 16:11	04/10/15 15:25	1
Toxaphene	ND		18	10	ug/Kg	☼	04/09/15 16:11	04/10/15 15:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	96		32 - 136	04/09/15 16:11	04/10/15 15:25	1
Tetrachloro-m-xylene	87		30 - 124	04/09/15 16:11	04/10/15 15:25	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.048	mg/Kg	☼	04/09/15 17:30	04/10/15 15:33	1
PCB-1221	ND		0.24	0.048	mg/Kg	☼	04/09/15 17:30	04/10/15 15:33	1
PCB-1232	ND		0.24	0.048	mg/Kg	☼	04/09/15 17:30	04/10/15 15:33	1
PCB-1242	ND		0.24	0.048	mg/Kg	☼	04/09/15 17:30	04/10/15 15:33	1
PCB-1248	ND		0.24	0.048	mg/Kg	☼	04/09/15 17:30	04/10/15 15:33	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	04/09/15 17:30	04/10/15 15:33	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	04/09/15 17:30	04/10/15 15:33	1
PCB-1262	ND		0.24	0.11	mg/Kg	☼	04/09/15 17:30	04/10/15 15:33	1
PCB-1268	ND		0.24	0.11	mg/Kg	☼	04/09/15 17:30	04/10/15 15:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	100		46 - 175	04/09/15 17:30	04/10/15 15:33	1
DCB Decachlorobiphenyl	99		47 - 176	04/09/15 17:30	04/10/15 15:33	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dings

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-3

Lab Sample ID: 480-77902-3

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 93.5

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		18	5.6	ug/Kg	☼	04/08/15 11:35	04/17/15 06:21	1
2,4-D	ND		18	11	ug/Kg	☼	04/08/15 11:35	04/17/15 06:21	1
Silvex (2,4,5-TP)	ND		18	6.3	ug/Kg	☼	04/08/15 11:35	04/17/15 06:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	67		39 - 120				04/08/15 11:35	04/17/15 06:21	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2980		10.7	4.7	mg/Kg	☼	04/09/15 15:30	04/10/15 21:41	1
Antimony	ND		16.0	0.43	mg/Kg	☼	04/09/15 15:30	04/10/15 21:41	1
Arsenic	2.1		2.1	0.43	mg/Kg	☼	04/09/15 15:30	04/11/15 18:23	1
Barium	12.7		0.53	0.12	mg/Kg	☼	04/09/15 15:30	04/11/15 18:23	1
Beryllium	0.18	J	0.21	0.030	mg/Kg	☼	04/09/15 15:30	04/10/15 21:41	1
Cadmium	0.18	J	0.21	0.032	mg/Kg	☼	04/09/15 15:30	04/10/15 21:41	1
Calcium	53400	B	53.5	3.5	mg/Kg	☼	04/09/15 15:30	04/10/15 21:41	1
Chromium	4.0		0.53	0.21	mg/Kg	☼	04/09/15 15:30	04/10/15 21:41	1
Cobalt	2.2		0.53	0.053	mg/Kg	☼	04/09/15 15:30	04/10/15 21:41	1
Copper	7.7		1.1	0.22	mg/Kg	☼	04/09/15 15:30	04/10/15 21:41	1
Iron	5960		10.7	1.2	mg/Kg	☼	04/09/15 15:30	04/10/15 21:41	1
Lead	8.3	B	1.1	0.26	mg/Kg	☼	04/09/15 15:30	04/10/15 21:41	1
Magnesium	23300	B	21.4	0.99	mg/Kg	☼	04/09/15 15:30	04/10/15 21:41	1
Manganese	218	B	0.21	0.034	mg/Kg	☼	04/09/15 15:30	04/10/15 21:41	1
Nickel	4.9	J	5.3	0.25	mg/Kg	☼	04/09/15 15:30	04/10/15 21:41	1
Potassium	755		32.1	21.4	mg/Kg	☼	04/09/15 15:30	04/10/15 21:41	1
Selenium	ND		4.3	0.43	mg/Kg	☼	04/09/15 15:30	04/10/15 21:41	1
Silver	ND		0.53	0.21	mg/Kg	☼	04/09/15 15:30	04/10/15 21:41	1
Sodium	165		150	13.9	mg/Kg	☼	04/09/15 15:30	04/10/15 21:41	1
Thallium	ND		6.4	0.32	mg/Kg	☼	04/09/15 15:30	04/10/15 21:41	1
Vanadium	8.7		0.53	0.12	mg/Kg	☼	04/09/15 15:30	04/10/15 21:41	1
Zinc	70.4	B	2.1	0.16	mg/Kg	☼	04/09/15 15:30	04/10/15 21:41	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.021	0.0087	mg/Kg	☼	04/16/15 14:35	04/16/15 15:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.1	0.51	mg/Kg	☼	04/10/15 15:51	04/11/15 11:03	1

Client Sample ID: CHF-4

Lab Sample ID: 480-77902-4

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 90.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		930	38	ug/Kg	☼	04/13/15 08:37	04/14/15 13:42	1
2,4,6-Trichlorophenol	ND		370	38	ug/Kg	☼	04/13/15 08:37	04/14/15 13:42	1
2,4-Dichlorophenol	ND		370	37	ug/Kg	☼	04/13/15 08:37	04/14/15 13:42	1
2,4-Dimethylphenol	ND		370	58	ug/Kg	☼	04/13/15 08:37	04/14/15 13:42	1
2,4-Dinitrophenol	ND		930	160	ug/Kg	☼	04/13/15 08:37	04/14/15 13:42	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-4

Lab Sample ID: 480-77902-4

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 90.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		370	27	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
2,6-Dinitrotoluene	ND		370	33	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
2-Chloronaphthalene	ND		370	48	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
2-Chlorophenol	ND		370	38	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
2-Methylnaphthalene	ND		370	17	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
2-Methylphenol	ND		370	45	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
2-Nitroaniline	ND		930	41	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
2-Nitrophenol	ND		370	41	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
3 & 4 Methylphenol	ND		750	83	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
3,3'-Dichlorobenzidine	ND		370	54	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
3-Nitroaniline	ND		930	42	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
4,6-Dinitro-2-methylphenol	ND		930	110	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
4-Bromophenyl phenyl ether	ND		370	20	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
4-Chloro-3-methylphenol	ND		370	45	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
4-Chloroaniline	ND		370	36	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
4-Chlorophenyl phenyl ether	ND		370	17	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
4-Nitroaniline	ND		930	36	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
4-Nitrophenol	ND		930	94	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Acenaphthene	ND		370	15	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Acenaphthylene	ND		370	17	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Acetophenone	ND		370	18	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Anthracene	ND		370	16	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Atrazine	ND		370	18	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Benzaldehyde	ND		370	18	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Benzo(a)anthracene	ND		370	15	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Benzo(a)pyrene	ND		370	13	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Benzo(b)fluoranthene	ND		370	26	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Benzo(g,h,i)perylene	ND		370	15	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Benzo(k)fluoranthene	ND		370	33	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Biphenyl	ND		370	17	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
bis (2-chloroisopropyl) ether	ND		370	18	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Bis(2-chloroethoxy)methane	ND		370	17	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Bis(2-chloroethyl)ether	ND		370	17	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Bis(2-ethylhexyl) phthalate	65	J B	370	23	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Butyl benzyl phthalate	ND		370	22	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Caprolactam	ND		370	39	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Carbazole	ND		370	17	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Chrysene	ND		370	20	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Dibenz(a,h)anthracene	ND		370	12	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Dibenzofuran	ND		370	18	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Diethyl phthalate	63	J B	370	17	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Dimethyl phthalate	ND		370	17	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Di-n-butyl phthalate	ND		370	17	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Di-n-octyl phthalate	ND		370	26	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Fluoranthene	ND		370	13	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Fluorene	ND		370	17	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Hexachlorobenzene	ND		370	51	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Hexachlorobutadiene	ND		370	39	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1
Hexachlorocyclopentadiene	ND		370	73	ug/Kg	*	04/13/15 08:37	04/14/15 13:42	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dings

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-4

Lab Sample ID: 480-77902-4

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 90.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	ND		370	38	ug/Kg	☼	04/13/15 08:37	04/14/15 13:42	1
Indeno(1,2,3-cd)pyrene	ND		370	16	ug/Kg	☼	04/13/15 08:37	04/14/15 13:42	1
Isophorone	ND		370	47	ug/Kg	☼	04/13/15 08:37	04/14/15 13:42	1
Naphthalene	ND		370	17	ug/Kg	☼	04/13/15 08:37	04/14/15 13:42	1
Nitrobenzene	ND		370	46	ug/Kg	☼	04/13/15 08:37	04/14/15 13:42	1
N-Nitrosodi-n-propylamine	ND		370	51	ug/Kg	☼	04/13/15 08:37	04/14/15 13:42	1
N-Nitrosodiphenylamine	ND		370	18	ug/Kg	☼	04/13/15 08:37	04/14/15 13:42	1
Pentachlorophenol	ND		930	76	ug/Kg	☼	04/13/15 08:37	04/14/15 13:42	1
Phenanthrene	ND		370	13	ug/Kg	☼	04/13/15 08:37	04/14/15 13:42	1
Phenol	ND		370	45	ug/Kg	☼	04/13/15 08:37	04/14/15 13:42	1
Pyrene	ND		370	16	ug/Kg	☼	04/13/15 08:37	04/14/15 13:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	70		25 - 135	04/13/15 08:37	04/14/15 13:42	1
2-Fluorobiphenyl	81		35 - 110	04/13/15 08:37	04/14/15 13:42	1
2-Fluorophenol	81		30 - 135	04/13/15 08:37	04/14/15 13:42	1
Nitrobenzene-d5	72		35 - 110	04/13/15 08:37	04/14/15 13:42	1
Phenol-d5	85		30 - 130	04/13/15 08:37	04/14/15 13:42	1
Terphenyl-d14 (Surr)	79		30 - 130	04/13/15 08:37	04/14/15 13:42	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.8	0.35	ug/Kg	☼	04/09/15 16:11	04/10/15 15:43	1
4,4'-DDE	ND		1.8	0.38	ug/Kg	☼	04/09/15 16:11	04/10/15 15:43	1
4,4'-DDT	ND		1.8	0.43	ug/Kg	☼	04/09/15 16:11	04/10/15 15:43	1
Aldrin	ND		1.8	0.45	ug/Kg	☼	04/09/15 16:11	04/10/15 15:43	1
alpha-BHC	ND		1.8	0.33	ug/Kg	☼	04/09/15 16:11	04/10/15 15:43	1
alpha-Chlordane	ND		1.8	0.91	ug/Kg	☼	04/09/15 16:11	04/10/15 15:43	1
beta-BHC	ND		1.8	0.33	ug/Kg	☼	04/09/15 16:11	04/10/15 15:43	1
delta-BHC	ND		1.8	0.34	ug/Kg	☼	04/09/15 16:11	04/10/15 15:43	1
Dieldrin	ND		1.8	0.44	ug/Kg	☼	04/09/15 16:11	04/10/15 15:43	1
Endosulfan I	ND		1.8	0.35	ug/Kg	☼	04/09/15 16:11	04/10/15 15:43	1
Endosulfan II	ND		1.8	0.33	ug/Kg	☼	04/09/15 16:11	04/10/15 15:43	1
Endosulfan sulfate	ND		1.8	0.34	ug/Kg	☼	04/09/15 16:11	04/10/15 15:43	1
Endrin	ND		1.8	0.36	ug/Kg	☼	04/09/15 16:11	04/10/15 15:43	1
Endrin aldehyde	ND		1.8	0.47	ug/Kg	☼	04/09/15 16:11	04/10/15 15:43	1
Endrin ketone	ND		1.8	0.45	ug/Kg	☼	04/09/15 16:11	04/10/15 15:43	1
gamma-BHC (Lindane)	ND		1.8	0.33	ug/Kg	☼	04/09/15 16:11	04/10/15 15:43	1
gamma-Chlordane	ND		1.8	0.58	ug/Kg	☼	04/09/15 16:11	04/10/15 15:43	1
Heptachlor	ND		1.8	0.39	ug/Kg	☼	04/09/15 16:11	04/10/15 15:43	1
Heptachlor epoxide	ND		1.8	0.47	ug/Kg	☼	04/09/15 16:11	04/10/15 15:43	1
Methoxychlor	ND		1.8	0.37	ug/Kg	☼	04/09/15 16:11	04/10/15 15:43	1
Toxaphene	ND		18	11	ug/Kg	☼	04/09/15 16:11	04/10/15 15:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	77		32 - 136	04/09/15 16:11	04/10/15 15:43	1
Tetrachloro-m-xylene	78		30 - 124	04/09/15 16:11	04/10/15 15:43	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dings

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-4

Lab Sample ID: 480-77902-4

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 90.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.041	mg/Kg	☼	04/09/15 17:30	04/10/15 15:49	1
PCB-1221	ND		0.21	0.041	mg/Kg	☼	04/09/15 17:30	04/10/15 15:49	1
PCB-1232	ND		0.21	0.041	mg/Kg	☼	04/09/15 17:30	04/10/15 15:49	1
PCB-1242	ND		0.21	0.041	mg/Kg	☼	04/09/15 17:30	04/10/15 15:49	1
PCB-1248	ND		0.21	0.041	mg/Kg	☼	04/09/15 17:30	04/10/15 15:49	1
PCB-1254	ND		0.21	0.097	mg/Kg	☼	04/09/15 17:30	04/10/15 15:49	1
PCB-1260	ND		0.21	0.097	mg/Kg	☼	04/09/15 17:30	04/10/15 15:49	1
PCB-1262	ND		0.21	0.097	mg/Kg	☼	04/09/15 17:30	04/10/15 15:49	1
PCB-1268	ND		0.21	0.097	mg/Kg	☼	04/09/15 17:30	04/10/15 15:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	94		46 - 175				04/09/15 17:30	04/10/15 15:49	1
DCB Decachlorobiphenyl	85		47 - 176				04/09/15 17:30	04/10/15 15:49	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		18	5.8	ug/Kg	☼	04/08/15 11:35	04/17/15 06:50	1
2,4-D	ND		18	11	ug/Kg	☼	04/08/15 11:35	04/17/15 06:50	1
Silvex (2,4,5-TP)	ND		18	6.5	ug/Kg	☼	04/08/15 11:35	04/17/15 06:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	77		39 - 120				04/08/15 11:35	04/17/15 06:50	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2670		11.0	4.8	mg/Kg	☼	04/09/15 15:30	04/10/15 21:52	1
Antimony	ND		16.4	0.44	mg/Kg	☼	04/09/15 15:30	04/10/15 21:52	1
Arsenic	1.2	J	2.2	0.44	mg/Kg	☼	04/09/15 15:30	04/11/15 18:34	1
Barium	13.2		0.55	0.12	mg/Kg	☼	04/09/15 15:30	04/11/15 18:34	1
Beryllium	0.15	J	0.22	0.031	mg/Kg	☼	04/09/15 15:30	04/10/15 21:52	1
Cadmium	0.20	J	0.22	0.033	mg/Kg	☼	04/09/15 15:30	04/10/15 21:52	1
Calcium	47600	B	54.8	3.6	mg/Kg	☼	04/09/15 15:30	04/10/15 21:52	1
Chromium	4.0		0.55	0.22	mg/Kg	☼	04/09/15 15:30	04/10/15 21:52	1
Cobalt	2.0		0.55	0.055	mg/Kg	☼	04/09/15 15:30	04/10/15 21:52	1
Copper	6.1		1.1	0.23	mg/Kg	☼	04/09/15 15:30	04/10/15 21:52	1
Iron	5420		11.0	1.2	mg/Kg	☼	04/09/15 15:30	04/10/15 21:52	1
Lead	7.6	B	1.1	0.26	mg/Kg	☼	04/09/15 15:30	04/10/15 21:52	1
Magnesium	21400	B	21.9	1.0	mg/Kg	☼	04/09/15 15:30	04/10/15 21:52	1
Manganese	213	B	0.22	0.035	mg/Kg	☼	04/09/15 15:30	04/10/15 21:52	1
Nickel	4.0	J	5.5	0.25	mg/Kg	☼	04/09/15 15:30	04/10/15 21:52	1
Potassium	803		32.9	21.9	mg/Kg	☼	04/09/15 15:30	04/10/15 21:52	1
Selenium	ND		4.4	0.44	mg/Kg	☼	04/09/15 15:30	04/10/15 21:52	1
Silver	ND		0.55	0.22	mg/Kg	☼	04/09/15 15:30	04/10/15 21:52	1
Sodium	256		154	14.3	mg/Kg	☼	04/09/15 15:30	04/10/15 21:52	1
Thallium	ND		6.6	0.33	mg/Kg	☼	04/09/15 15:30	04/10/15 21:52	1
Vanadium	9.6		0.55	0.12	mg/Kg	☼	04/09/15 15:30	04/10/15 21:52	1
Zinc	67.1	B	2.2	0.17	mg/Kg	☼	04/09/15 15:30	04/10/15 21:52	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.022	0.0089	mg/Kg	☼	04/16/15 14:35	04/16/15 15:55	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-4

Lab Sample ID: 480-77902-4

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 90.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.1	0.53	mg/Kg	☼	04/10/15 15:51	04/11/15 11:06	1

Client Sample ID: CHF-5

Lab Sample ID: 480-77902-5

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 91.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		930	38	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
2,4,6-Trichlorophenol	ND		370	38	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
2,4-Dichlorophenol	ND		370	37	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
2,4-Dimethylphenol	ND		370	58	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
2,4-Dinitrophenol	ND		930	160	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
2,4-Dinitrotoluene	ND		370	27	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
2,6-Dinitrotoluene	ND		370	34	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
2-Chloronaphthalene	ND		370	48	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
2-Chlorophenol	ND		370	38	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
2-Methylnaphthalene	ND		370	17	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
2-Methylphenol	ND		370	45	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
2-Nitroaniline	ND		930	41	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
2-Nitrophenol	ND		370	41	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
3 & 4 Methylphenol	ND		750	83	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
3,3'-Dichlorobenzidine	ND		370	54	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
3-Nitroaniline	ND		930	43	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
4,6-Dinitro-2-methylphenol	ND		930	110	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
4-Bromophenyl phenyl ether	ND		370	20	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
4-Chloro-3-methylphenol	ND		370	45	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
4-Chloroaniline	ND		370	36	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
4-Chlorophenyl phenyl ether	ND		370	17	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
4-Nitroaniline	ND		930	36	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
4-Nitrophenol	ND		930	94	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Acenaphthene	ND		370	15	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Acenaphthylene	ND		370	17	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Acetophenone	ND		370	18	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Anthracene	ND		370	16	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Atrazine	ND		370	18	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Benzaldehyde	ND		370	18	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Benzo(a)anthracene	ND		370	15	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Benzo(a)pyrene	ND		370	13	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Benzo(b)fluoranthene	ND		370	26	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Benzo(g,h,i)perylene	ND		370	15	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Benzo(k)fluoranthene	ND		370	34	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Biphenyl	ND		370	17	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
bis (2-chloroisopropyl) ether	ND		370	18	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Bis(2-chloroethoxy)methane	ND		370	17	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Bis(2-chloroethyl)ether	ND		370	17	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Bis(2-ethylhexyl) phthalate	84	J B	370	23	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Butyl benzyl phthalate	ND		370	22	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Caprolactam	ND		370	39	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Carbazole	ND		370	17	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-5

Lab Sample ID: 480-77902-5

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 91.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		370	20	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Dibenz(a,h)anthracene	ND		370	12	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Dibenzofuran	ND		370	18	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Diethyl phthalate	87	J B	370	17	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Dimethyl phthalate	ND		370	17	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Di-n-butyl phthalate	ND		370	17	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Di-n-octyl phthalate	ND		370	26	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Fluoranthene	41	J	370	13	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Fluorene	ND		370	17	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Hexachlorobenzene	ND		370	51	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Hexachlorobutadiene	ND		370	39	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Hexachlorocyclopentadiene	ND		370	73	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Hexachloroethane	ND		370	38	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Indeno(1,2,3-cd)pyrene	ND		370	16	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Isophorone	ND		370	47	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Naphthalene	ND		370	17	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Nitrobenzene	ND		370	46	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
N-Nitrosodi-n-propylamine	ND		370	51	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
N-Nitrosodiphenylamine	ND		370	18	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Pentachlorophenol	ND		930	76	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Phenanthrene	28	J	370	13	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Phenol	ND		370	45	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1
Pyrene	34	J	370	16	ug/Kg	☼	04/13/15 08:37	04/14/15 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	81		25 - 135	04/13/15 08:37	04/14/15 14:24	1
2-Fluorobiphenyl	93		35 - 110	04/13/15 08:37	04/14/15 14:24	1
2-Fluorophenol	92		30 - 135	04/13/15 08:37	04/14/15 14:24	1
Nitrobenzene-d5	79		35 - 110	04/13/15 08:37	04/14/15 14:24	1
Phenol-d5	96		30 - 130	04/13/15 08:37	04/14/15 14:24	1
Terphenyl-d14 (Surr)	90		30 - 130	04/13/15 08:37	04/14/15 14:24	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.8	0.35	ug/Kg	☼	04/09/15 16:11	04/10/15 16:01	1
4,4'-DDE	ND		1.8	0.37	ug/Kg	☼	04/09/15 16:11	04/10/15 16:01	1
4,4'-DDT	ND		1.8	0.42	ug/Kg	☼	04/09/15 16:11	04/10/15 16:01	1
Aldrin	ND		1.8	0.44	ug/Kg	☼	04/09/15 16:11	04/10/15 16:01	1
alpha-BHC	ND		1.8	0.32	ug/Kg	☼	04/09/15 16:11	04/10/15 16:01	1
alpha-Chlordane	ND		1.8	0.88	ug/Kg	☼	04/09/15 16:11	04/10/15 16:01	1
beta-BHC	ND		1.8	0.32	ug/Kg	☼	04/09/15 16:11	04/10/15 16:01	1
delta-BHC	ND		1.8	0.33	ug/Kg	☼	04/09/15 16:11	04/10/15 16:01	1
Dieldrin	ND		1.8	0.43	ug/Kg	☼	04/09/15 16:11	04/10/15 16:01	1
Endosulfan I	ND		1.8	0.34	ug/Kg	☼	04/09/15 16:11	04/10/15 16:01	1
Endosulfan II	ND		1.8	0.32	ug/Kg	☼	04/09/15 16:11	04/10/15 16:01	1
Endosulfan sulfate	ND		1.8	0.33	ug/Kg	☼	04/09/15 16:11	04/10/15 16:01	1
Endrin	ND		1.8	0.35	ug/Kg	☼	04/09/15 16:11	04/10/15 16:01	1
Endrin aldehyde	ND		1.8	0.45	ug/Kg	☼	04/09/15 16:11	04/10/15 16:01	1
Endrin ketone	ND		1.8	0.44	ug/Kg	☼	04/09/15 16:11	04/10/15 16:01	1
gamma-BHC (Lindane)	ND		1.8	0.33	ug/Kg	☼	04/09/15 16:11	04/10/15 16:01	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-5

Lab Sample ID: 480-77902-5

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 91.4

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-Chlordane	ND		1.8	0.56	ug/Kg	☼	04/09/15 16:11	04/10/15 16:01	1
Heptachlor	ND		1.8	0.38	ug/Kg	☼	04/09/15 16:11	04/10/15 16:01	1
Heptachlor epoxide	ND		1.8	0.46	ug/Kg	☼	04/09/15 16:11	04/10/15 16:01	1
Methoxychlor	ND		1.8	0.36	ug/Kg	☼	04/09/15 16:11	04/10/15 16:01	1
Toxaphene	ND		18	10	ug/Kg	☼	04/09/15 16:11	04/10/15 16:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	81		32 - 136				04/09/15 16:11	04/10/15 16:01	1
Tetrachloro-m-xylene	74		30 - 124				04/09/15 16:11	04/10/15 16:01	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.040	mg/Kg	☼	04/09/15 17:30	04/10/15 16:04	1
PCB-1221	ND		0.21	0.040	mg/Kg	☼	04/09/15 17:30	04/10/15 16:04	1
PCB-1232	ND		0.21	0.040	mg/Kg	☼	04/09/15 17:30	04/10/15 16:04	1
PCB-1242	ND		0.21	0.040	mg/Kg	☼	04/09/15 17:30	04/10/15 16:04	1
PCB-1248	ND		0.21	0.040	mg/Kg	☼	04/09/15 17:30	04/10/15 16:04	1
PCB-1254	ND		0.21	0.096	mg/Kg	☼	04/09/15 17:30	04/10/15 16:04	1
PCB-1260	ND		0.21	0.096	mg/Kg	☼	04/09/15 17:30	04/10/15 16:04	1
PCB-1262	ND		0.21	0.096	mg/Kg	☼	04/09/15 17:30	04/10/15 16:04	1
PCB-1268	ND		0.21	0.096	mg/Kg	☼	04/09/15 17:30	04/10/15 16:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	99		46 - 175				04/09/15 17:30	04/10/15 16:04	1
DCB Decachlorobiphenyl	96		47 - 176				04/09/15 17:30	04/10/15 16:04	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		18	5.8	ug/Kg	☼	04/08/15 11:35	04/17/15 07:20	1
2,4-D	ND		18	11	ug/Kg	☼	04/08/15 11:35	04/17/15 07:20	1
Silvex (2,4,5-TP)	ND		18	6.5	ug/Kg	☼	04/08/15 11:35	04/17/15 07:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	79		39 - 120				04/08/15 11:35	04/17/15 07:20	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3100		11.1	4.9	mg/Kg	☼	04/09/15 15:30	04/10/15 21:54	1
Antimony	ND		16.7	0.44	mg/Kg	☼	04/09/15 15:30	04/10/15 21:54	1
Arsenic	1.6	J	2.2	0.44	mg/Kg	☼	04/09/15 15:30	04/11/15 18:37	1
Barium	15.1		0.56	0.12	mg/Kg	☼	04/09/15 15:30	04/11/15 18:37	1
Beryllium	0.18	J	0.22	0.031	mg/Kg	☼	04/09/15 15:30	04/10/15 21:54	1
Cadmium	0.18	J	0.22	0.033	mg/Kg	☼	04/09/15 15:30	04/10/15 21:54	1
Calcium	50700	B	55.6	3.7	mg/Kg	☼	04/09/15 15:30	04/10/15 21:54	1
Chromium	4.5		0.56	0.22	mg/Kg	☼	04/09/15 15:30	04/10/15 21:54	1
Cobalt	2.1		0.56	0.056	mg/Kg	☼	04/09/15 15:30	04/10/15 21:54	1
Copper	7.0		1.1	0.23	mg/Kg	☼	04/09/15 15:30	04/10/15 21:54	1
Iron	5960		11.1	1.2	mg/Kg	☼	04/09/15 15:30	04/10/15 21:54	1
Lead	8.6	B	1.1	0.27	mg/Kg	☼	04/09/15 15:30	04/10/15 21:54	1
Magnesium	19300	B	22.2	1.0	mg/Kg	☼	04/09/15 15:30	04/10/15 21:54	1
Manganese	215	B	0.22	0.036	mg/Kg	☼	04/09/15 15:30	04/10/15 21:54	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dings

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-5

Lab Sample ID: 480-77902-5

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 91.4

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	4.9	J	5.6	0.26	mg/Kg	☼	04/09/15 15:30	04/10/15 21:54	1
Potassium	923		33.4	22.2	mg/Kg	☼	04/09/15 15:30	04/10/15 21:54	1
Selenium	ND		4.4	0.44	mg/Kg	☼	04/09/15 15:30	04/10/15 21:54	1
Silver	ND		0.56	0.22	mg/Kg	☼	04/09/15 15:30	04/10/15 21:54	1
Sodium	203		156	14.5	mg/Kg	☼	04/09/15 15:30	04/10/15 21:54	1
Thallium	ND		6.7	0.33	mg/Kg	☼	04/09/15 15:30	04/10/15 21:54	1
Vanadium	10.4		0.56	0.12	mg/Kg	☼	04/09/15 15:30	04/10/15 21:54	1
Zinc	65.4	B	2.2	0.17	mg/Kg	☼	04/09/15 15:30	04/10/15 21:54	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.021	0.0086	mg/Kg	☼	04/16/15 14:35	04/16/15 15:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.1	0.52	mg/Kg	☼	04/10/15 15:51	04/11/15 11:08	1

Client Sample ID: CHF-1A

Lab Sample ID: 480-77902-6

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 92.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.4	0.39	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
1,1,2,2-Tetrachloroethane	ND		5.4	0.87	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.4	1.2	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
1,1,2-Trichloroethane	ND		5.4	0.70	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
1,1-Dichloroethane	ND		5.4	0.66	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
1,1-Dichloroethene	ND		5.4	0.66	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
1,2,4-Trichlorobenzene	ND	F1	5.4	0.33	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
1,2-Dibromo-3-Chloropropane	ND		5.4	2.7	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
1,2-Dichlorobenzene	ND		5.4	0.42	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
1,2-Dichloroethane	ND		5.4	0.27	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
1,2-Dichloropropane	ND		5.4	2.7	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
1,3-Dichlorobenzene	ND		5.4	0.28	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
1,4-Dichlorobenzene	ND		5.4	0.76	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
2-Hexanone	ND		27	2.7	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
Acetone	ND		27	4.5	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
Benzene	0.68	J	5.4	0.26	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
Bromoform	ND		5.4	2.7	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
Bromomethane	ND		5.4	0.49	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
Carbon disulfide	ND		5.4	2.7	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
Carbon tetrachloride	ND		5.4	0.52	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
Chlorobenzene	ND		5.4	0.71	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
Dibromochloromethane	ND		5.4	0.69	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
Chloroethane	ND		5.4	1.2	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
Chloroform	ND		5.4	0.33	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
Chloromethane	ND		5.4	0.33	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
cis-1,2-Dichloroethene	ND		5.4	0.69	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
cis-1,3-Dichloropropene	ND		5.4	0.78	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-1A

Lab Sample ID: 480-77902-6

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 92.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		5.4	0.76	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
Bromodichloromethane	ND		5.4	0.72	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
Dichlorodifluoromethane	ND		5.4	0.45	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
Ethylbenzene	ND		5.4	0.37	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
1,2-Dibromoethane	ND		5.4	0.69	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
Isopropylbenzene	ND		5.4	0.81	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
Methyl acetate	ND		5.4	3.3	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
2-Butanone (MEK)	ND		27	2.0	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
4-Methyl-2-pentanone (MIBK)	ND		27	1.8	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
Methyl tert-butyl ether	ND		5.4	0.53	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
Methylcyclohexane	ND		5.4	0.82	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
Methylene Chloride	3.0	J B	5.4	2.5	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
Styrene	ND		5.4	0.27	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
Tetrachloroethene	ND		5.4	0.72	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
Toluene	0.92	J	5.4	0.41	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
trans-1,2-Dichloroethene	ND		5.4	0.56	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
trans-1,3-Dichloropropene	ND		5.4	2.4	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
Trichloroethene	ND		5.4	1.2	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
Trichlorofluoromethane	ND		5.4	0.51	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
Vinyl chloride	ND		5.4	0.66	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
Xylenes, Total	ND		11	0.91	ug/Kg	☼	04/08/15 11:20	04/08/15 18:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		64 - 126				04/08/15 11:20	04/08/15 18:07	1
Toluene-d8 (Surr)	102		71 - 125				04/08/15 11:20	04/08/15 18:07	1
4-Bromofluorobenzene (Surr)	98		72 - 126				04/08/15 11:20	04/08/15 18:07	1
Dibromofluoromethane (Surr)	98		60 - 140				04/08/15 11:20	04/08/15 18:07	1

Client Sample ID: CHF-1B

Lab Sample ID: 480-77902-7

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 93.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.3	0.38	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
1,1,2,2-Tetrachloroethane	ND		5.3	0.85	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.3	1.2	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
1,1,2-Trichloroethane	ND		5.3	0.68	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
1,1-Dichloroethane	ND		5.3	0.64	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
1,1-Dichloroethene	ND		5.3	0.64	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
1,2,4-Trichlorobenzene	ND		5.3	0.32	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
1,2-Dibromo-3-Chloropropane	ND		5.3	2.6	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
1,2-Dichlorobenzene	ND		5.3	0.41	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
1,2-Dichloroethane	ND		5.3	0.26	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
1,2-Dichloropropane	ND		5.3	2.6	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
1,3-Dichlorobenzene	ND		5.3	0.27	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
1,4-Dichlorobenzene	ND		5.3	0.74	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
2-Hexanone	ND		26	2.6	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
Acetone	ND		26	4.4	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
Benzene	0.45	J	5.3	0.26	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-1B

Lab Sample ID: 480-77902-7

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 93.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		5.3	2.6	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
Bromomethane	ND		5.3	0.47	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
Carbon disulfide	ND		5.3	2.6	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
Carbon tetrachloride	ND		5.3	0.51	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
Chlorobenzene	ND		5.3	0.69	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
Dibromochloromethane	ND		5.3	0.67	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
Chloroethane	ND		5.3	1.2	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
Chloroform	ND		5.3	0.32	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
Chloromethane	ND		5.3	0.32	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
cis-1,2-Dichloroethene	ND		5.3	0.67	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
cis-1,3-Dichloropropene	ND		5.3	0.76	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
Cyclohexane	ND		5.3	0.74	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
Bromodichloromethane	ND		5.3	0.70	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
Dichlorodifluoromethane	ND		5.3	0.43	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
Ethylbenzene	ND		5.3	0.36	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
1,2-Dibromoethane	ND		5.3	0.68	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
Isopropylbenzene	ND		5.3	0.79	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
Methyl acetate	ND		5.3	3.2	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
2-Butanone (MEK)	ND		26	1.9	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
4-Methyl-2-pentanone (MIBK)	ND		26	1.7	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
Methyl tert-butyl ether	ND		5.3	0.52	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
Methylcyclohexane	ND		5.3	0.80	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
Methylene Chloride	2.6	J B	5.3	2.4	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
Styrene	ND		5.3	0.26	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
Tetrachloroethene	ND		5.3	0.71	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
Toluene	0.83	J	5.3	0.40	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
trans-1,2-Dichloroethene	ND		5.3	0.54	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
trans-1,3-Dichloropropene	ND		5.3	2.3	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
Trichloroethene	ND		5.3	1.2	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
Trichlorofluoromethane	ND		5.3	0.50	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
Vinyl chloride	ND		5.3	0.64	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1
Xylenes, Total	ND		11	0.88	ug/Kg	☼	04/08/15 11:20	04/08/15 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		64 - 126	04/08/15 11:20	04/08/15 18:33	1
Toluene-d8 (Surr)	101		71 - 125	04/08/15 11:20	04/08/15 18:33	1
4-Bromofluorobenzene (Surr)	98		72 - 126	04/08/15 11:20	04/08/15 18:33	1
Dibromofluoromethane (Surr)	97		60 - 140	04/08/15 11:20	04/08/15 18:33	1

Client Sample ID: CHF-2A

Lab Sample ID: 480-77902-8

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 93.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.2	0.38	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
1,1,2,2-Tetrachloroethane	ND		5.2	0.84	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.2	1.2	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
1,1,2-Trichloroethane	ND		5.2	0.68	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
1,1-Dichloroethane	ND		5.2	0.64	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-2A

Lab Sample ID: 480-77902-8

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 93.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		5.2	0.64	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
1,2,4-Trichlorobenzene	ND		5.2	0.32	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
1,2-Dibromo-3-Chloropropane	ND		5.2	2.6	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
1,2-Dichlorobenzene	ND		5.2	0.41	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
1,2-Dichloroethane	ND		5.2	0.26	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
1,2-Dichloropropane	ND		5.2	2.6	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
1,3-Dichlorobenzene	ND		5.2	0.27	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
1,4-Dichlorobenzene	ND		5.2	0.73	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
2-Hexanone	ND		26	2.6	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
Acetone	ND		26	4.4	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
Benzene	0.46	J	5.2	0.26	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
Bromoform	ND		5.2	2.6	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
Bromomethane	ND		5.2	0.47	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
Carbon disulfide	ND		5.2	2.6	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
Carbon tetrachloride	ND		5.2	0.50	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
Chlorobenzene	ND		5.2	0.69	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
Dibromochloromethane	ND		5.2	0.67	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
Chloroethane	ND		5.2	1.2	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
Chloroform	ND		5.2	0.32	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
Chloromethane	ND		5.2	0.31	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
cis-1,2-Dichloroethene	ND		5.2	0.67	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
cis-1,3-Dichloropropene	ND		5.2	0.75	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
Cyclohexane	ND		5.2	0.73	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
Bromodichloromethane	ND		5.2	0.70	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
Dichlorodifluoromethane	ND		5.2	0.43	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
Ethylbenzene	ND		5.2	0.36	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
1,2-Dibromoethane	ND		5.2	0.67	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
Isopropylbenzene	ND		5.2	0.79	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
Methyl acetate	ND		5.2	3.1	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
2-Butanone (MEK)	ND		26	1.9	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
4-Methyl-2-pentanone (MIBK)	ND		26	1.7	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
Methyl tert-butyl ether	ND		5.2	0.51	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
Methylcyclohexane	ND		5.2	0.79	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
Methylene Chloride	2.5	J B	5.2	2.4	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
Styrene	ND		5.2	0.26	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
Tetrachloroethene	ND		5.2	0.70	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
Toluene	0.81	J	5.2	0.39	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
trans-1,2-Dichloroethene	ND		5.2	0.54	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
trans-1,3-Dichloropropene	ND		5.2	2.3	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
Trichloroethene	ND		5.2	1.1	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
Trichlorofluoromethane	ND		5.2	0.49	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
Vinyl chloride	ND		5.2	0.64	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
Xylenes, Total	ND		10	0.88	ug/Kg	☼	04/08/15 11:20	04/08/15 18:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		64 - 126				04/08/15 11:20	04/08/15 18:59	1
Toluene-d8 (Surr)	102		71 - 125				04/08/15 11:20	04/08/15 18:59	1
4-Bromofluorobenzene (Surr)	102		72 - 126				04/08/15 11:20	04/08/15 18:59	1
Dibromofluoromethane (Surr)	100		60 - 140				04/08/15 11:20	04/08/15 18:59	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-2B

Lab Sample ID: 480-77902-9

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 91.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.3	0.38	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
1,1,2,2-Tetrachloroethane	ND		5.3	0.86	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.3	1.2	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
1,1,2-Trichloroethane	ND		5.3	0.69	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
1,1-Dichloroethane	ND		5.3	0.65	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
1,1-Dichloroethene	ND		5.3	0.65	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
1,2,4-Trichlorobenzene	ND		5.3	0.32	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
1,2-Dibromo-3-Chloropropane	ND		5.3	2.7	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
1,2-Dichlorobenzene	ND		5.3	0.41	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
1,2-Dichloroethane	ND		5.3	0.27	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
1,2-Dichloropropane	ND		5.3	2.7	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
1,3-Dichlorobenzene	ND		5.3	0.27	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
1,4-Dichlorobenzene	ND		5.3	0.74	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
2-Hexanone	ND		27	2.7	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
Acetone	ND		27	4.5	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
Benzene	0.42	J	5.3	0.26	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
Bromoform	ND		5.3	2.7	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
Bromomethane	ND		5.3	0.48	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
Carbon disulfide	ND		5.3	2.7	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
Carbon tetrachloride	ND		5.3	0.51	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
Chlorobenzene	ND		5.3	0.70	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
Dibromochloromethane	ND		5.3	0.68	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
Chloroethane	ND		5.3	1.2	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
Chloroform	ND		5.3	0.33	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
Chloromethane	ND		5.3	0.32	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
cis-1,2-Dichloroethene	ND		5.3	0.68	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
cis-1,3-Dichloropropene	ND		5.3	0.76	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
Cyclohexane	ND		5.3	0.74	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
Bromodichloromethane	ND		5.3	0.71	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
Dichlorodifluoromethane	ND		5.3	0.44	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
Ethylbenzene	ND		5.3	0.37	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
1,2-Dibromoethane	ND		5.3	0.68	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
Isopropylbenzene	ND		5.3	0.80	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
Methyl acetate	ND		5.3	3.2	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
2-Butanone (MEK)	ND		27	1.9	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
4-Methyl-2-pentanone (MIBK)	ND		27	1.7	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
Methyl tert-butyl ether	ND		5.3	0.52	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
Methylcyclohexane	ND		5.3	0.81	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
Methylene Chloride	2.8	J B	5.3	2.4	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
Styrene	ND		5.3	0.27	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
Tetrachloroethene	ND		5.3	0.71	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
Toluene	0.84	J	5.3	0.40	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
trans-1,2-Dichloroethene	ND		5.3	0.55	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
trans-1,3-Dichloropropene	ND		5.3	2.3	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
Trichloroethene	ND		5.3	1.2	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
Trichlorofluoromethane	ND		5.3	0.50	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
Vinyl chloride	ND		5.3	0.65	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1
Xylenes, Total	ND		11	0.89	ug/Kg	☼	04/08/15 11:20	04/08/15 19:25	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-2B

Lab Sample ID: 480-77902-9

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 91.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		64 - 126	04/08/15 11:20	04/08/15 19:25	1
Toluene-d8 (Surr)	102		71 - 125	04/08/15 11:20	04/08/15 19:25	1
4-Bromofluorobenzene (Surr)	98		72 - 126	04/08/15 11:20	04/08/15 19:25	1
Dibromofluoromethane (Surr)	96		60 - 140	04/08/15 11:20	04/08/15 19:25	1

Client Sample ID: CHF-3A

Lab Sample ID: 480-77902-10

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 94.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.2	0.38	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
1,1,2,2-Tetrachloroethane	ND		5.2	0.85	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.2	1.2	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
1,1,2-Trichloroethane	ND		5.2	0.68	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
1,1-Dichloroethane	ND		5.2	0.64	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
1,1-Dichloroethene	ND		5.2	0.64	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
1,2,4-Trichlorobenzene	ND		5.2	0.32	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
1,2-Dibromo-3-Chloropropane	ND		5.2	2.6	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
1,2-Dichlorobenzene	ND		5.2	0.41	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
1,2-Dichloroethane	ND		5.2	0.26	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
1,2-Dichloropropane	ND		5.2	2.6	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
1,3-Dichlorobenzene	ND		5.2	0.27	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
1,4-Dichlorobenzene	ND		5.2	0.73	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
2-Hexanone	ND		26	2.6	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
Acetone	ND		26	4.4	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
Benzene	0.44	J	5.2	0.26	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
Bromoform	ND		5.2	2.6	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
Bromomethane	ND		5.2	0.47	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
Carbon disulfide	ND		5.2	2.6	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
Carbon tetrachloride	ND		5.2	0.51	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
Chlorobenzene	ND		5.2	0.69	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
Dibromochloromethane	ND		5.2	0.67	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
Chloroethane	ND		5.2	1.2	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
Chloroform	ND		5.2	0.32	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
Chloromethane	ND		5.2	0.32	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
cis-1,2-Dichloroethene	ND		5.2	0.67	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
cis-1,3-Dichloropropene	ND		5.2	0.75	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
Cyclohexane	ND		5.2	0.73	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
Bromodichloromethane	ND		5.2	0.70	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
Dichlorodifluoromethane	ND		5.2	0.43	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
Ethylbenzene	ND		5.2	0.36	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
1,2-Dibromoethane	ND		5.2	0.67	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
Isopropylbenzene	ND		5.2	0.79	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
Methyl acetate	ND		5.2	3.2	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
2-Butanone (MEK)	ND		26	1.9	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
4-Methyl-2-pentanone (MIBK)	ND		26	1.7	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
Methyl tert-butyl ether	ND		5.2	0.51	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
Methylcyclohexane	ND		5.2	0.80	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
Methylene Chloride	2.5	J B	5.2	2.4	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-3A

Lab Sample ID: 480-77902-10

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 94.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		5.2	0.26	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
Tetrachloroethene	ND		5.2	0.70	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
Toluene	0.78	J	5.2	0.40	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
trans-1,2-Dichloroethene	ND		5.2	0.54	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
trans-1,3-Dichloropropene	ND		5.2	2.3	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
Trichloroethene	ND		5.2	1.2	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
Trichlorofluoromethane	ND		5.2	0.50	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
Vinyl chloride	ND		5.2	0.64	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1
Xylenes, Total	ND		10	0.88	ug/Kg	☼	04/08/15 11:20	04/08/15 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		64 - 126	04/08/15 11:20	04/08/15 19:51	1
Toluene-d8 (Surr)	103		71 - 125	04/08/15 11:20	04/08/15 19:51	1
4-Bromofluorobenzene (Surr)	100		72 - 126	04/08/15 11:20	04/08/15 19:51	1
Dibromofluoromethane (Surr)	99		60 - 140	04/08/15 11:20	04/08/15 19:51	1

Client Sample ID: CHF-3B

Lab Sample ID: 480-77902-11

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 92.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.2	0.38	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
1,1,2,2-Tetrachloroethane	ND		5.2	0.85	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.2	1.2	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
1,1,2-Trichloroethane	ND		5.2	0.68	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
1,1-Dichloroethane	ND		5.2	0.64	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
1,1-Dichloroethene	ND		5.2	0.64	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
1,2,4-Trichlorobenzene	ND		5.2	0.32	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
1,2-Dibromo-3-Chloropropane	ND		5.2	2.6	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
1,2-Dichlorobenzene	ND		5.2	0.41	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
1,2-Dichloroethane	ND		5.2	0.26	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
1,2-Dichloropropane	ND		5.2	2.6	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
1,3-Dichlorobenzene	ND		5.2	0.27	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
1,4-Dichlorobenzene	ND		5.2	0.73	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
2-Hexanone	ND		26	2.6	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
Acetone	ND		26	4.4	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
Benzene	0.74	J	5.2	0.26	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
Bromoform	ND		5.2	2.6	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
Bromomethane	ND		5.2	0.47	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
Carbon disulfide	ND		5.2	2.6	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
Carbon tetrachloride	ND		5.2	0.51	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
Chlorobenzene	ND		5.2	0.69	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
Dibromochloromethane	ND		5.2	0.67	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
Chloroethane	ND		5.2	1.2	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
Chloroform	ND		5.2	0.32	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
Chloromethane	ND		5.2	0.32	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
cis-1,2-Dichloroethene	ND		5.2	0.67	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
cis-1,3-Dichloropropene	ND		5.2	0.75	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
Cyclohexane	ND		5.2	0.73	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-3B

Lab Sample ID: 480-77902-11

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 92.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		5.2	0.70	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
Dichlorodifluoromethane	ND		5.2	0.43	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
Ethylbenzene	ND		5.2	0.36	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
1,2-Dibromoethane	ND		5.2	0.67	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
Isopropylbenzene	ND		5.2	0.79	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
Methyl acetate	ND		5.2	3.2	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
2-Butanone (MEK)	ND		26	1.9	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
4-Methyl-2-pentanone (MIBK)	ND		26	1.7	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
Methyl tert-butyl ether	ND		5.2	0.51	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
Methylcyclohexane	ND		5.2	0.80	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
Methylene Chloride	2.6	J B	5.2	2.4	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
Styrene	ND		5.2	0.26	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
Tetrachloroethene	ND		5.2	0.70	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
Toluene	1.3	J	5.2	0.40	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
trans-1,2-Dichloroethene	ND		5.2	0.54	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
trans-1,3-Dichloropropene	ND		5.2	2.3	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
Trichloroethene	ND		5.2	1.2	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
Trichlorofluoromethane	ND		5.2	0.50	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
Vinyl chloride	ND		5.2	0.64	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
Xylenes, Total	ND		10	0.88	ug/Kg	☼	04/08/15 11:20	04/09/15 01:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		64 - 126				04/08/15 11:20	04/09/15 01:21	1
Toluene-d8 (Surr)	103		71 - 125				04/08/15 11:20	04/09/15 01:21	1
4-Bromofluorobenzene (Surr)	100		72 - 126				04/08/15 11:20	04/09/15 01:21	1
Dibromofluoromethane (Surr)	99		60 - 140				04/08/15 11:20	04/09/15 01:21	1

Client Sample ID: CHF-4A

Lab Sample ID: 480-77902-12

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 88.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.4	0.39	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
1,1,2,2-Tetrachloroethane	ND		5.4	0.88	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.4	1.2	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
1,1,2-Trichloroethane	ND		5.4	0.71	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
1,1-Dichloroethane	ND		5.4	0.66	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
1,1-Dichloroethene	ND		5.4	0.66	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
1,2,4-Trichlorobenzene	ND		5.4	0.33	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
1,2-Dibromo-3-Chloropropane	ND		5.4	2.7	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
1,2-Dichlorobenzene	ND		5.4	0.42	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
1,2-Dichloroethane	ND		5.4	0.27	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
1,2-Dichloropropane	ND		5.4	2.7	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
1,3-Dichlorobenzene	ND		5.4	0.28	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
1,4-Dichlorobenzene	ND		5.4	0.76	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
2-Hexanone	ND		27	2.7	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
Acetone	ND		27	4.6	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
Benzene	0.50	J	5.4	0.27	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
Bromoform	ND		5.4	2.7	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingsen

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-4A

Lab Sample ID: 480-77902-12

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 88.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		5.4	0.49	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
Carbon disulfide	ND		5.4	2.7	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
Carbon tetrachloride	ND		5.4	0.53	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
Chlorobenzene	ND		5.4	0.72	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
Dibromochloromethane	ND		5.4	0.70	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
Chloroethane	ND		5.4	1.2	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
Chloroform	ND		5.4	0.34	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
Chloromethane	ND		5.4	0.33	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
cis-1,2-Dichloroethene	ND		5.4	0.70	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
cis-1,3-Dichloropropene	ND		5.4	0.78	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
Cyclohexane	ND		5.4	0.76	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
Bromodichloromethane	ND		5.4	0.73	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
Dichlorodifluoromethane	ND		5.4	0.45	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
Ethylbenzene	ND		5.4	0.37	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
1,2-Dibromoethane	ND		5.4	0.70	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
Isopropylbenzene	ND		5.4	0.82	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
Methyl acetate	ND		5.4	3.3	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
2-Butanone (MEK)	ND		27	2.0	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
4-Methyl-2-pentanone (MIBK)	ND		27	1.8	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
Methyl tert-butyl ether	ND		5.4	0.53	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
Methylcyclohexane	ND		5.4	0.83	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
Methylene Chloride	3.0	J B	5.4	2.5	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
Styrene	0.29	J	5.4	0.27	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
Tetrachloroethene	ND		5.4	0.73	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
Toluene	1.1	J	5.4	0.41	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
trans-1,2-Dichloroethene	ND		5.4	0.56	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
trans-1,3-Dichloropropene	ND		5.4	2.4	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
Trichloroethene	ND		5.4	1.2	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
Trichlorofluoromethane	ND		5.4	0.51	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
Vinyl chloride	ND		5.4	0.66	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1
Xylenes, Total	ND		11	0.91	ug/Kg	☼	04/08/15 11:20	04/09/15 01:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		64 - 126	04/08/15 11:20	04/09/15 01:47	1
Toluene-d8 (Surr)	103		71 - 125	04/08/15 11:20	04/09/15 01:47	1
4-Bromofluorobenzene (Surr)	97		72 - 126	04/08/15 11:20	04/09/15 01:47	1
Dibromofluoromethane (Surr)	97		60 - 140	04/08/15 11:20	04/09/15 01:47	1

Client Sample ID: CHF-4B

Lab Sample ID: 480-77902-13

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 91.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.4	0.39	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
1,1,2,2-Tetrachloroethane	ND		5.4	0.88	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.4	1.2	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
1,1,2-Trichloroethane	ND		5.4	0.70	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
1,1-Dichloroethane	ND		5.4	0.66	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
1,1-Dichloroethene	ND		5.4	0.66	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-4B

Lab Sample ID: 480-77902-13

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 91.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		5.4	0.33	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
1,2-Dibromo-3-Chloropropane	ND		5.4	2.7	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
1,2-Dichlorobenzene	ND		5.4	0.42	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
1,2-Dichloroethane	ND		5.4	0.27	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
1,2-Dichloropropane	ND		5.4	2.7	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
1,3-Dichlorobenzene	ND		5.4	0.28	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
1,4-Dichlorobenzene	ND		5.4	0.76	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
2-Hexanone	ND		27	2.7	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
Acetone	ND		27	4.5	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
Benzene	0.79	J	5.4	0.26	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
Bromoform	ND		5.4	2.7	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
Bromomethane	ND		5.4	0.49	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
Carbon disulfide	ND		5.4	2.7	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
Carbon tetrachloride	ND		5.4	0.52	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
Chlorobenzene	ND		5.4	0.71	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
Dibromochloromethane	ND		5.4	0.69	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
Chloroethane	ND		5.4	1.2	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
Chloroform	ND		5.4	0.33	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
Chloromethane	ND		5.4	0.33	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
cis-1,2-Dichloroethene	ND		5.4	0.69	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
cis-1,3-Dichloropropene	ND		5.4	0.78	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
Cyclohexane	ND		5.4	0.76	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
Bromodichloromethane	ND		5.4	0.72	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
Dichlorodifluoromethane	ND		5.4	0.45	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
Ethylbenzene	ND		5.4	0.37	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
1,2-Dibromoethane	ND		5.4	0.69	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
Isopropylbenzene	ND		5.4	0.81	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
Methyl acetate	ND		5.4	3.3	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
2-Butanone (MEK)	ND		27	2.0	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
4-Methyl-2-pentanone (MIBK)	ND		27	1.8	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
Methyl tert-butyl ether	ND		5.4	0.53	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
Methylcyclohexane	ND		5.4	0.82	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
Methylene Chloride	3.1	J B	5.4	2.5	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
Styrene	ND		5.4	0.27	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
Tetrachloroethene	ND		5.4	0.72	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
Toluene	1.1	J	5.4	0.41	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
trans-1,2-Dichloroethene	ND		5.4	0.56	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
trans-1,3-Dichloropropene	ND		5.4	2.4	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
Trichloroethene	ND		5.4	1.2	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
Trichlorofluoromethane	ND		5.4	0.51	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
Vinyl chloride	ND		5.4	0.66	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1
Xylenes, Total	ND		11	0.91	ug/Kg	☼	04/08/15 11:20	04/09/15 02:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		64 - 126	04/08/15 11:20	04/09/15 02:13	1
Toluene-d8 (Surr)	103		71 - 125	04/08/15 11:20	04/09/15 02:13	1
4-Bromofluorobenzene (Surr)	97		72 - 126	04/08/15 11:20	04/09/15 02:13	1
Dibromofluoromethane (Surr)	97		60 - 140	04/08/15 11:20	04/09/15 02:13	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-5A

Lab Sample ID: 480-77902-14

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 91.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.3	0.38	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
1,1,2,2-Tetrachloroethane	ND		5.3	0.85	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.3	1.2	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
1,1,2-Trichloroethane	ND		5.3	0.68	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
1,1-Dichloroethane	ND		5.3	0.64	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
1,1-Dichloroethene	ND		5.3	0.64	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
1,2,4-Trichlorobenzene	ND		5.3	0.32	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
1,2-Dibromo-3-Chloropropane	ND		5.3	2.6	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
1,2-Dichlorobenzene	ND		5.3	0.41	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
1,2-Dichloroethane	ND		5.3	0.26	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
1,2-Dichloropropane	ND		5.3	2.6	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
1,3-Dichlorobenzene	ND		5.3	0.27	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
1,4-Dichlorobenzene	ND		5.3	0.74	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
2-Hexanone	ND		26	2.6	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
Acetone	ND		26	4.4	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
Benzene	0.45	J	5.3	0.26	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
Bromoform	ND		5.3	2.6	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
Bromomethane	ND		5.3	0.47	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
Carbon disulfide	ND		5.3	2.6	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
Carbon tetrachloride	ND		5.3	0.51	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
Chlorobenzene	ND		5.3	0.69	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
Dibromochloromethane	ND		5.3	0.67	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
Chloroethane	ND		5.3	1.2	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
Chloroform	ND		5.3	0.32	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
Chloromethane	ND		5.3	0.32	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
cis-1,2-Dichloroethene	ND		5.3	0.67	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
cis-1,3-Dichloropropene	ND		5.3	0.76	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
Cyclohexane	ND		5.3	0.74	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
Bromodichloromethane	ND		5.3	0.70	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
Dichlorodifluoromethane	ND		5.3	0.43	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
Ethylbenzene	ND		5.3	0.36	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
1,2-Dibromoethane	ND		5.3	0.68	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
Isopropylbenzene	ND		5.3	0.79	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
Methyl acetate	ND		5.3	3.2	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
2-Butanone (MEK)	ND		26	1.9	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
4-Methyl-2-pentanone (MIBK)	ND		26	1.7	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
Methyl tert-butyl ether	ND		5.3	0.52	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
Methylcyclohexane	ND		5.3	0.80	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
Methylene Chloride	2.6	J B	5.3	2.4	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
Styrene	ND		5.3	0.26	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
Tetrachloroethene	ND		5.3	0.71	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
Toluene	0.78	J	5.3	0.40	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
trans-1,2-Dichloroethene	ND		5.3	0.54	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
trans-1,3-Dichloropropene	ND		5.3	2.3	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
Trichloroethene	ND		5.3	1.2	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
Trichlorofluoromethane	ND		5.3	0.50	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
Vinyl chloride	ND		5.3	0.64	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1
Xylenes, Total	ND		11	0.88	ug/Kg	☼	04/08/15 11:20	04/09/15 02:39	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-5A

Date Collected: 04/07/15 00:00

Date Received: 04/07/15 15:40

Lab Sample ID: 480-77902-14

Matrix: Solid

Percent Solids: 91.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		64 - 126	04/08/15 11:20	04/09/15 02:39	1
Toluene-d8 (Surr)	100		71 - 125	04/08/15 11:20	04/09/15 02:39	1
4-Bromofluorobenzene (Surr)	99		72 - 126	04/08/15 11:20	04/09/15 02:39	1
Dibromofluoromethane (Surr)	99		60 - 140	04/08/15 11:20	04/09/15 02:39	1

Client Sample ID: CHF-5B

Date Collected: 04/07/15 00:00

Date Received: 04/07/15 15:40

Lab Sample ID: 480-77902-15

Matrix: Solid

Percent Solids: 88.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.5	0.40	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
1,1,2,2-Tetrachloroethane	ND	F1	5.5	0.90	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.5	1.3	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
1,1,2-Trichloroethane	ND		5.5	0.72	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
1,1-Dichloroethane	ND		5.5	0.68	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
1,1-Dichloroethene	ND		5.5	0.68	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
1,2,4-Trichlorobenzene	ND		5.5	0.34	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
1,2-Dibromo-3-Chloropropane	ND	F1	5.5	2.8	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
1,2-Dichlorobenzene	ND		5.5	0.43	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
1,2-Dichloroethane	ND	F1	5.5	0.28	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
1,2-Dichloropropane	ND		5.5	2.8	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
1,3-Dichlorobenzene	ND		5.5	0.28	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
1,4-Dichlorobenzene	ND		5.5	0.77	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
2-Hexanone	ND		28	2.8	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
Acetone	ND	F1	28	4.7	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
Benzene	0.49	J	5.5	0.27	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
Bromoform	ND		5.5	2.8	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
Bromomethane	ND		5.5	0.50	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
Carbon disulfide	ND		5.5	2.8	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
Carbon tetrachloride	ND		5.5	0.54	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
Chlorobenzene	ND		5.5	0.73	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
Dibromochloromethane	ND		5.5	0.71	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
Chloroethane	ND		5.5	1.3	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
Chloroform	ND		5.5	0.34	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
Chloromethane	ND		5.5	0.33	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
cis-1,2-Dichloroethene	ND		5.5	0.71	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
cis-1,3-Dichloropropene	ND		5.5	0.80	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
Cyclohexane	ND	F1 *	5.5	0.77	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
Bromodichloromethane	ND		5.5	0.74	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
Dichlorodifluoromethane	ND		5.5	0.46	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
Ethylbenzene	ND		5.5	0.38	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
1,2-Dibromoethane	ND	F1	5.5	0.71	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
Isopropylbenzene	ND		5.5	0.83	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
Methyl acetate	ND		5.5	3.3	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
2-Butanone (MEK)	ND	F1	28	2.0	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
4-Methyl-2-pentanone (MIBK)	ND	F1	28	1.8	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
Methyl tert-butyl ether	ND		5.5	0.54	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
Methylcyclohexane	ND		5.5	0.84	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
Methylene Chloride	3.9	J	5.5	2.5	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dings

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-5B

Lab Sample ID: 480-77902-15

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 88.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		5.5	0.28	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
Tetrachloroethene	ND		5.5	0.74	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
Toluene	0.64	J	5.5	0.42	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
trans-1,2-Dichloroethene	ND		5.5	0.57	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
trans-1,3-Dichloropropene	ND		5.5	2.4	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
Trichloroethene	ND		5.5	1.2	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
Trichlorofluoromethane	ND		5.5	0.52	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
Vinyl chloride	ND		5.5	0.68	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1
Xylenes, Total	ND		11	0.93	ug/Kg	☼	04/08/15 23:10	04/09/15 03:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		64 - 126	04/08/15 23:10	04/09/15 03:05	1
Toluene-d8 (Surr)	100		71 - 125	04/08/15 23:10	04/09/15 03:05	1
4-Bromofluorobenzene (Surr)	97		72 - 126	04/08/15 23:10	04/09/15 03:05	1
Dibromofluoromethane (Surr)	99		60 - 140	04/08/15 23:10	04/09/15 03:05	1

Client Sample ID: CRS-1

Lab Sample ID: 480-77902-16

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 98.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
2-Hexanone	ND		25	2.5	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
Acetone	ND		25	4.2	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
Benzene	ND		5.0	0.24	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
Bromoform	ND		5.0	2.5	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
Bromomethane	ND		5.0	0.45	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
Carbon disulfide	ND		5.0	2.5	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
Chlorobenzene	ND		5.0	0.66	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
Chloroethane	ND		5.0	1.1	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
Chloroform	ND		5.0	0.31	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
Chloromethane	ND		5.0	0.30	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
Cyclohexane	ND	*	5.0	0.70	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CRS-1

Lab Sample ID: 480-77902-16

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 98.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		5.0	0.67	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
Ethylbenzene	ND		5.0	0.34	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
Methyl acetate	ND		5.0	3.0	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
Methylene Chloride	3.7	J	5.0	2.3	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
Styrene	ND		5.0	0.25	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
Toluene	ND		5.0	0.38	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
trans-1,2-Dichloroethene	ND		5.0	0.51	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
Trichloroethene	ND		5.0	1.1	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
Vinyl chloride	ND		5.0	0.61	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1
Xylenes, Total	ND		10	0.84	ug/Kg	☼	04/08/15 23:10	04/09/15 03:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		64 - 126	04/08/15 23:10	04/09/15 03:30	1
Toluene-d8 (Surr)	102		71 - 125	04/08/15 23:10	04/09/15 03:30	1
4-Bromofluorobenzene (Surr)	98		72 - 126	04/08/15 23:10	04/09/15 03:30	1
Dibromofluoromethane (Surr)	97		60 - 140	04/08/15 23:10	04/09/15 03:30	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		870	35	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
2,4,6-Trichlorophenol	ND		340	35	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
2,4-Dichlorophenol	ND		340	34	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
2,4-Dimethylphenol	ND		340	54	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
2,4-Dinitrophenol	ND		870	150	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
2,4-Dinitrotoluene	ND		340	25	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
2,6-Dinitrotoluene	ND		340	31	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
2-Chloronaphthalene	ND		340	45	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
2-Chlorophenol	ND		340	35	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
2-Methylnaphthalene	ND		340	16	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
2-Methylphenol	ND		340	42	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
2-Nitroaniline	ND		870	39	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
2-Nitrophenol	ND		340	39	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
3 & 4 Methylphenol	ND		700	77	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
3,3'-Dichlorobenzidine	ND		340	50	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
3-Nitroaniline	ND		870	40	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
4,6-Dinitro-2-methylphenol	ND		870	100	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
4-Bromophenyl phenyl ether	ND		340	19	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
4-Chloro-3-methylphenol	ND		340	42	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
4-Chloroaniline	ND		340	33	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
4-Chlorophenyl phenyl ether	ND		340	16	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dings

TestAmerica Job ID: 480-77902-1

Client Sample ID: CRS-1

Lab Sample ID: 480-77902-16

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 98.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		870	33	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
4-Nitrophenol	ND		870	88	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Acenaphthene	ND		340	14	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Acenaphthylene	ND		340	16	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Acetophenone	ND		340	17	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Anthracene	ND		340	15	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Atrazine	ND		340	17	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Benzaldehyde	ND		340	17	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Benzo(a)anthracene	ND		340	14	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Benzo(a)pyrene	ND		340	13	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Benzo(b)fluoranthene	ND		340	24	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Benzo(g,h,i)perylene	ND		340	14	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Benzo(k)fluoranthene	ND		340	31	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Biphenyl	ND		340	16	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
bis (2-chloroisopropyl) ether	ND		340	17	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Bis(2-chloroethoxy)methane	ND		340	16	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Bis(2-chloroethyl)ether	ND		340	16	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Bis(2-ethylhexyl) phthalate	59	J B	340	22	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Butyl benzyl phthalate	ND		340	21	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Caprolactam	ND		340	36	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Carbazole	ND		340	16	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Chrysene	ND		340	19	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Dibenz(a,h)anthracene	ND		340	11	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Dibenzofuran	ND		340	17	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Diethyl phthalate	41	J B	340	16	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Dimethyl phthalate	ND		340	16	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Di-n-butyl phthalate	ND		340	16	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Di-n-octyl phthalate	ND		340	24	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Fluoranthene	ND		340	13	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Fluorene	ND		340	16	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Hexachlorobenzene	ND		340	48	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Hexachlorobutadiene	ND		340	36	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Hexachlorocyclopentadiene	ND		340	68	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Hexachloroethane	ND		340	35	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Indeno(1,2,3-cd)pyrene	ND		340	15	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Isophorone	ND		340	44	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Naphthalene	ND		340	16	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Nitrobenzene	ND		340	43	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
N-Nitrosodi-n-propylamine	ND		340	48	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
N-Nitrosodiphenylamine	ND		340	17	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Pentachlorophenol	ND		870	71	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Phenanthrene	32	J	340	13	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Phenol	ND		340	42	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Pyrene	ND		340	15	ug/Kg	☼	04/13/15 08:37	04/14/15 15:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	70		25 - 135				04/13/15 08:37	04/14/15 15:06	1
2-Fluorobiphenyl	91		35 - 110				04/13/15 08:37	04/14/15 15:06	1
2-Fluorophenol	86		30 - 135				04/13/15 08:37	04/14/15 15:06	1
Nitrobenzene-d5	79		35 - 110				04/13/15 08:37	04/14/15 15:06	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CRS-1

Lab Sample ID: 480-77902-16

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 98.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5	90		30 - 130	04/13/15 08:37	04/14/15 15:06	1
Terphenyl-d14 (Surr)	82		30 - 130	04/13/15 08:37	04/14/15 15:06	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.6	0.32	ug/Kg	☼	04/09/15 16:11	04/10/15 16:19	1
4,4'-DDE	ND		1.6	0.35	ug/Kg	☼	04/09/15 16:11	04/10/15 16:19	1
4,4'-DDT	ND		1.6	0.38	ug/Kg	☼	04/09/15 16:11	04/10/15 16:19	1
Aldrin	ND		1.6	0.40	ug/Kg	☼	04/09/15 16:11	04/10/15 16:19	1
alpha-BHC	ND		1.6	0.30	ug/Kg	☼	04/09/15 16:11	04/10/15 16:19	1
alpha-Chlordane	ND		1.6	0.82	ug/Kg	☼	04/09/15 16:11	04/10/15 16:19	1
beta-BHC	ND		1.6	0.30	ug/Kg	☼	04/09/15 16:11	04/10/15 16:19	1
delta-BHC	ND		1.6	0.31	ug/Kg	☼	04/09/15 16:11	04/10/15 16:19	1
Dieldrin	ND		1.6	0.39	ug/Kg	☼	04/09/15 16:11	04/10/15 16:19	1
Endosulfan I	ND		1.6	0.32	ug/Kg	☼	04/09/15 16:11	04/10/15 16:19	1
Endosulfan II	ND		1.6	0.30	ug/Kg	☼	04/09/15 16:11	04/10/15 16:19	1
Endosulfan sulfate	ND		1.6	0.31	ug/Kg	☼	04/09/15 16:11	04/10/15 16:19	1
Endrin	ND		1.6	0.33	ug/Kg	☼	04/09/15 16:11	04/10/15 16:19	1
Endrin aldehyde	ND		1.6	0.42	ug/Kg	☼	04/09/15 16:11	04/10/15 16:19	1
Endrin ketone	ND		1.6	0.40	ug/Kg	☼	04/09/15 16:11	04/10/15 16:19	1
gamma-BHC (Lindane)	ND		1.6	0.30	ug/Kg	☼	04/09/15 16:11	04/10/15 16:19	1
gamma-Chlordane	ND		1.6	0.52	ug/Kg	☼	04/09/15 16:11	04/10/15 16:19	1
Heptachlor	ND		1.6	0.36	ug/Kg	☼	04/09/15 16:11	04/10/15 16:19	1
Heptachlor epoxide	ND		1.6	0.42	ug/Kg	☼	04/09/15 16:11	04/10/15 16:19	1
Methoxychlor	ND		1.6	0.34	ug/Kg	☼	04/09/15 16:11	04/10/15 16:19	1
Toxaphene	ND		16	9.6	ug/Kg	☼	04/09/15 16:11	04/10/15 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	79		32 - 136	04/09/15 16:11	04/10/15 16:19	1
Tetrachloro-m-xylene	75		30 - 124	04/09/15 16:11	04/10/15 16:19	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.042	mg/Kg	☼	04/09/15 17:30	04/10/15 16:52	1
PCB-1221	ND		0.21	0.042	mg/Kg	☼	04/09/15 17:30	04/10/15 16:52	1
PCB-1232	ND		0.21	0.042	mg/Kg	☼	04/09/15 17:30	04/10/15 16:52	1
PCB-1242	ND		0.21	0.042	mg/Kg	☼	04/09/15 17:30	04/10/15 16:52	1
PCB-1248	ND		0.21	0.042	mg/Kg	☼	04/09/15 17:30	04/10/15 16:52	1
PCB-1254	ND		0.21	0.10	mg/Kg	☼	04/09/15 17:30	04/10/15 16:52	1
PCB-1260	ND		0.21	0.10	mg/Kg	☼	04/09/15 17:30	04/10/15 16:52	1
PCB-1262	ND		0.21	0.10	mg/Kg	☼	04/09/15 17:30	04/10/15 16:52	1
PCB-1268	ND		0.21	0.10	mg/Kg	☼	04/09/15 17:30	04/10/15 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	100		46 - 175	04/09/15 17:30	04/10/15 16:52	1
DCB Decachlorobiphenyl	100		47 - 176	04/09/15 17:30	04/10/15 16:52	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		17	5.3	ug/Kg	☼	04/08/15 11:38	04/17/15 07:49	1

TestAmerica Buffalo

Client Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CRS-1

Lab Sample ID: 480-77902-16

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 98.2

Method: 8151A - Herbicides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		17	10	ug/Kg	☼	04/08/15 11:38	04/17/15 07:49	1
Silvex (2,4,5-TP)	ND		17	6.0	ug/Kg	☼	04/08/15 11:38	04/17/15 07:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	69		39 - 120				04/08/15 11:38	04/17/15 07:49	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2000		11.0	4.8	mg/Kg	☼	04/09/15 15:30	04/10/15 21:57	1
Antimony	ND		16.5	0.44	mg/Kg	☼	04/09/15 15:30	04/10/15 21:57	1
Arsenic	3.4		2.2	0.44	mg/Kg	☼	04/09/15 15:30	04/11/15 18:39	1
Barium	16.8		0.55	0.12	mg/Kg	☼	04/09/15 15:30	04/11/15 18:39	1
Beryllium	0.12	J	0.22	0.031	mg/Kg	☼	04/09/15 15:30	04/10/15 21:57	1
Cadmium	0.81		0.22	0.033	mg/Kg	☼	04/09/15 15:30	04/10/15 21:57	1
Calcium	184000	B	275	18.1	mg/Kg	☼	04/09/15 15:30	04/13/15 11:34	5
Chromium	4.4		0.55	0.22	mg/Kg	☼	04/09/15 15:30	04/10/15 21:57	1
Cobalt	1.4		0.55	0.055	mg/Kg	☼	04/09/15 15:30	04/10/15 21:57	1
Copper	3.5	J	5.5	1.2	mg/Kg	☼	04/09/15 15:30	04/13/15 11:34	5
Iron	6210		11.0	1.2	mg/Kg	☼	04/09/15 15:30	04/10/15 21:57	1
Lead	147	B	1.1	0.26	mg/Kg	☼	04/09/15 15:30	04/10/15 21:57	1
Magnesium	114000	B	110	5.1	mg/Kg	☼	04/09/15 15:30	04/13/15 11:34	5
Manganese	524	B	0.22	0.035	mg/Kg	☼	04/09/15 15:30	04/10/15 21:57	1
Nickel	4.1	J	5.5	0.25	mg/Kg	☼	04/09/15 15:30	04/10/15 21:57	1
Potassium	1270		33.0	22.0	mg/Kg	☼	04/09/15 15:30	04/10/15 21:57	1
Selenium	ND		4.4	0.44	mg/Kg	☼	04/09/15 15:30	04/10/15 21:57	1
Silver	ND		0.55	0.22	mg/Kg	☼	04/09/15 15:30	04/10/15 21:57	1
Sodium	242		154	14.3	mg/Kg	☼	04/09/15 15:30	04/10/15 21:57	1
Thallium	ND		6.6	0.33	mg/Kg	☼	04/09/15 15:30	04/10/15 21:57	1
Vanadium	7.7		0.55	0.12	mg/Kg	☼	04/09/15 15:30	04/10/15 21:57	1
Zinc	199	B	2.2	0.17	mg/Kg	☼	04/09/15 15:30	04/10/15 21:57	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.020	0.0083	mg/Kg	☼	04/16/15 14:35	04/16/15 16:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.99	0.48	mg/Kg	☼	04/10/15 15:51	04/11/15 11:09	1

Surrogate Summary

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (64-126)	TOL (71-125)	BFB (72-126)	DBFM (60-140)
480-77902-6	CHF-1A	91	102	98	98
480-77902-6 MS	CHF-1A	91	104	103	98
480-77902-6 MSD	CHF-1A	90	105	105	99
480-77902-7	CHF-1B	90	101	98	97
480-77902-8	CHF-2A	95	102	102	100
480-77902-9	CHF-2B	88	102	98	96
480-77902-10	CHF-3A	91	103	100	99
480-77902-11	CHF-3B	95	103	100	99
480-77902-12	CHF-4A	88	103	97	97
480-77902-13	CHF-4B	92	103	97	97
480-77902-14	CHF-5A	92	100	99	99
480-77902-15	CHF-5B	92	100	97	99
480-77902-15 MS	CHF-5B	72	106	98	90
480-77902-15 MSD	CHF-5B	74	104	99	92
480-77902-16	CRS-1	91	102	98	97
LCS 480-234791/1-A	Lab Control Sample	89	103	103	95
LCS 480-234987/1-A	Lab Control Sample	89	100	101	94
MB 480-234791/2-A	Method Blank	88	102	100	95
MB 480-234987/2-A	Method Blank	90	98	95	94

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (25-135)	FBP (35-110)	2FP (30-135)	NBZ (35-110)	PHL (30-130)	TPH (30-130)
480-77902-1	CHF-1	76	86	85	74	86	83
480-77902-2	CHF-2	79	87	87	75	92	85
480-77902-3	CHF-3	80	88	87	74	90	85
480-77902-4	CHF-4	70	81	81	72	85	79
480-77902-5	CHF-5	81	93	92	79	96	90
480-77902-16	CRS-1	70	91	86	79	90	82
LCS 200-86757/2-A	Lab Control Sample	81	77	66	59	78	82
MB 200-86757/1-A	Method Blank	66	78	76	63	79	79

Surrogate Legend

TBP = 2,4,6-Tribromophenol

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5

PHL = Phenol-d5

TPH = Terphenyl-d14 (Surr)

TestAmerica Buffalo

Surrogate Summary

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB2 (32-136)	TCX2 (30-124)
480-77902-1	CHF-1	84	83
480-77902-1 MS	CHF-1	95	87
480-77902-1 MSD	CHF-1	40	85
480-77902-2	CHF-2	90	86
480-77902-3	CHF-3	96	87
480-77902-4	CHF-4	77	78
480-77902-5	CHF-5	81	74
480-77902-16	CRS-1	79	75
LCS 480-235202/2-A	Lab Control Sample	94	92
MB 480-235202/1-A	Method Blank	94	94

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX2 (46-175)	DCB2 (47-176)
480-77902-1	CHF-1	99	99
480-77902-1 MS	CHF-1	112	113
480-77902-1 MSD	CHF-1	118	113
480-77902-2	CHF-2	105	94
480-77902-3	CHF-3	100	99
480-77902-4	CHF-4	94	85
480-77902-5	CHF-5	99	96
480-77902-16	CRS-1	100	100
LCS 480-235225/2-A	Lab Control Sample	112	114
MB 480-235225/1-A	Method Blank	106	101

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8151A - Herbicides (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCPA1 (39-120)
480-77902-1	CHF-1	76
480-77902-2	CHF-2	73
480-77902-3	CHF-3	67
480-77902-4	CHF-4	77
480-77902-5	CHF-5	79
480-77902-16	CRS-1	69
LCS 480-234732/2-A	Lab Control Sample	77
MB 480-234732/1-A	Method Blank	74

TestAmerica Buffalo

Surrogate Summary

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dings

TestAmerica Job ID: 480-77902-1

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

QC Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingsen

TestAmerica Job ID: 480-77902-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-234791/2-A

Matrix: Solid

Analysis Batch: 234784

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 234791

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.9	0.36	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
1,1,2,2-Tetrachloroethane	ND		4.9	0.80	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9	1.1	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
1,1,2-Trichloroethane	ND		4.9	0.64	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
1,1-Dichloroethane	ND		4.9	0.60	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
1,1-Dichloroethene	ND		4.9	0.60	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
1,2,4-Trichlorobenzene	ND		4.9	0.30	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
1,2-Dibromo-3-Chloropropane	ND		4.9	2.5	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
1,2-Dichlorobenzene	ND		4.9	0.39	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
1,2-Dichloroethane	ND		4.9	0.25	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
1,2-Dichloropropane	ND		4.9	2.5	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
1,3-Dichlorobenzene	ND		4.9	0.25	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
1,4-Dichlorobenzene	ND		4.9	0.69	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
2-Hexanone	ND		25	2.5	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
Acetone	ND		25	4.2	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
Benzene	ND		4.9	0.24	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
Bromoform	ND		4.9	2.5	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
Bromomethane	ND		4.9	0.44	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
Carbon disulfide	ND		4.9	2.5	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
Carbon tetrachloride	ND		4.9	0.48	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
Chlorobenzene	ND		4.9	0.65	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
Dibromochloromethane	ND		4.9	0.63	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
Chloroethane	ND		4.9	1.1	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
Chloroform	ND		4.9	0.31	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
Chloromethane	ND		4.9	0.30	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
cis-1,2-Dichloroethene	ND		4.9	0.63	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
cis-1,3-Dichloropropene	ND		4.9	0.71	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
Cyclohexane	ND		4.9	0.69	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
Bromodichloromethane	ND		4.9	0.66	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
Dichlorodifluoromethane	ND		4.9	0.41	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
Ethylbenzene	ND		4.9	0.34	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
1,2-Dibromoethane	ND		4.9	0.63	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
Isopropylbenzene	ND		4.9	0.75	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
Methyl acetate	ND		4.9	3.0	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
Methyl tert-butyl ether	ND		4.9	0.49	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
Methylcyclohexane	ND		4.9	0.75	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
Methylene Chloride	2.47	J	4.9	2.3	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
Styrene	ND		4.9	0.25	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
Tetrachloroethene	ND		4.9	0.66	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
Toluene	ND		4.9	0.37	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
trans-1,2-Dichloroethene	ND		4.9	0.51	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
trans-1,3-Dichloropropene	ND		4.9	2.2	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
Trichloroethene	ND		4.9	1.1	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
Trichlorofluoromethane	ND		4.9	0.47	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
Vinyl chloride	ND		4.9	0.60	ug/Kg		04/08/15 09:07	04/08/15 12:28	1
Xylenes, Total	ND		9.9	0.83	ug/Kg		04/08/15 09:07	04/08/15 12:28	1

TestAmerica Buffalo

QC Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-234791/2-A
Matrix: Solid
Analysis Batch: 234784

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 234791

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	88		64 - 126	04/08/15 09:07	04/08/15 12:28	1
Toluene-d8 (Surr)	102		71 - 125	04/08/15 09:07	04/08/15 12:28	1
4-Bromofluorobenzene (Surr)	100		72 - 126	04/08/15 09:07	04/08/15 12:28	1
Dibromofluoromethane (Surr)	95		60 - 140	04/08/15 09:07	04/08/15 12:28	1

Lab Sample ID: LCS 480-234791/1-A
Matrix: Solid
Analysis Batch: 234784

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 234791

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	49.2	49.1		ug/Kg		100	59 - 125
1,2-Dichlorobenzene	49.2	47.3		ug/Kg		96	75 - 120
1,2-Dichloroethane	49.2	42.4		ug/Kg		86	77 - 122
Benzene	49.2	49.8		ug/Kg		101	79 - 127
Chlorobenzene	49.2	50.1		ug/Kg		102	76 - 124
cis-1,2-Dichloroethene	49.2	48.9		ug/Kg		99	81 - 117
Ethylbenzene	49.2	48.8		ug/Kg		99	80 - 120
Methyl tert-butyl ether	49.2	47.9		ug/Kg		97	63 - 125
Tetrachloroethene	49.2	48.7		ug/Kg		99	74 - 122
Toluene	49.2	49.9		ug/Kg		101	74 - 128
trans-1,2-Dichloroethene	49.2	48.8		ug/Kg		99	78 - 126
Trichloroethene	49.2	45.3		ug/Kg		92	77 - 129

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	89		64 - 126
Toluene-d8 (Surr)	103		71 - 125
4-Bromofluorobenzene (Surr)	103		72 - 126
Dibromofluoromethane (Surr)	95		60 - 140

Lab Sample ID: 480-77902-6 MS
Matrix: Solid
Analysis Batch: 234784

Client Sample ID: CHF-1A
Prep Type: Total/NA
Prep Batch: 234791

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	ND		54.0	52.4		ug/Kg	☼	97	59 - 125
1,2-Dichlorobenzene	ND		54.0	41.0		ug/Kg	☼	76	75 - 120
1,2-Dichloroethane	ND		54.0	42.8		ug/Kg	☼	79	77 - 122
Benzene	0.68	J	54.0	52.3		ug/Kg	☼	96	79 - 127
Chlorobenzene	ND		54.0	47.6		ug/Kg	☼	88	76 - 124
cis-1,2-Dichloroethene	ND		54.0	50.5		ug/Kg	☼	93	81 - 117
Ethylbenzene	ND		54.0	46.9		ug/Kg	☼	87	80 - 120
Methyl tert-butyl ether	ND		54.0	46.8		ug/Kg	☼	87	63 - 125
Tetrachloroethene	ND		54.0	48.1		ug/Kg	☼	89	74 - 122
Toluene	0.92	J	54.0	50.9		ug/Kg	☼	93	74 - 128
trans-1,2-Dichloroethene	ND		54.0	51.3		ug/Kg	☼	95	78 - 126
Trichloroethene	ND		54.0	46.4		ug/Kg	☼	86	77 - 129

TestAmerica Buffalo

QC Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-77902-6 MS

Matrix: Solid

Analysis Batch: 234784

Client Sample ID: CHF-1A

Prep Type: Total/NA

Prep Batch: 234791

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	91		64 - 126
Toluene-d8 (Surr)	104		71 - 125
4-Bromofluorobenzene (Surr)	103		72 - 126
Dibromofluoromethane (Surr)	98		60 - 140

Lab Sample ID: 480-77902-6 MSD

Matrix: Solid

Analysis Batch: 234784

Client Sample ID: CHF-1A

Prep Type: Total/NA

Prep Batch: 234791

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
1,1-Dichloroethane	ND		53.8	50.6		ug/Kg	*	94	73 - 126	2	30	
1,1-Dichloroethene	ND		53.8	51.2		ug/Kg	*	95	59 - 125	2	30	
1,2-Dichlorobenzene	ND		53.8	41.2		ug/Kg	*	76	75 - 120	0	30	
1,2-Dichloroethane	ND		53.8	43.3		ug/Kg	*	80	77 - 122	1	30	
Benzene	0.68	J	53.8	52.1		ug/Kg	*	95	79 - 127	1	30	
Chlorobenzene	ND		53.8	47.4		ug/Kg	*	88	76 - 124	0	30	
cis-1,2-Dichloroethene	ND		53.8	50.6		ug/Kg	*	94	81 - 117	0	30	
Ethylbenzene	ND		53.8	46.4		ug/Kg	*	86	80 - 120	1	30	
Methyl tert-butyl ether	ND		53.8	47.5		ug/Kg	*	88	63 - 125	1	30	
Tetrachloroethene	ND		53.8	46.8		ug/Kg	*	87	74 - 122	3	30	
Toluene	0.92	J	53.8	50.0		ug/Kg	*	91	74 - 128	2	30	
trans-1,2-Dichloroethene	ND		53.8	50.1		ug/Kg	*	93	78 - 126	2	30	
Trichloroethene	ND		53.8	46.3		ug/Kg	*	86	77 - 129	0	30	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	90		64 - 126
Toluene-d8 (Surr)	105		71 - 125
4-Bromofluorobenzene (Surr)	105		72 - 126
Dibromofluoromethane (Surr)	99		60 - 140

Lab Sample ID: MB 480-234987/2-A

Matrix: Solid

Analysis Batch: 234974

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 234987

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		4.9	0.36	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
1,1,2,2-Tetrachloroethane	ND		4.9	0.80	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9	1.1	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
1,1,2-Trichloroethane	ND		4.9	0.64	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
1,1-Dichloroethane	ND		4.9	0.60	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
1,1-Dichloroethene	ND		4.9	0.60	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
1,2,4-Trichlorobenzene	ND		4.9	0.30	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
1,2-Dibromo-3-Chloropropane	ND		4.9	2.5	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
1,2-Dichlorobenzene	ND		4.9	0.38	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
1,2-Dichloroethane	ND		4.9	0.25	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
1,2-Dichloropropane	ND		4.9	2.5	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
1,3-Dichlorobenzene	ND		4.9	0.25	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
1,4-Dichlorobenzene	ND		4.9	0.69	ug/Kg		04/08/15 23:10	04/09/15 00:42	1

TestAmerica Buffalo

QC Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingsen

TestAmerica Job ID: 480-77902-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-234987/2-A

Matrix: Solid

Analysis Batch: 234974

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 234987

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Hexanone	ND		25	2.5	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
Acetone	ND		25	4.1	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
Benzene	ND		4.9	0.24	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
Bromoform	ND		4.9	2.5	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
Bromomethane	ND		4.9	0.44	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
Carbon disulfide	ND		4.9	2.5	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
Carbon tetrachloride	ND		4.9	0.48	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
Chlorobenzene	ND		4.9	0.65	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
Dibromochloromethane	ND		4.9	0.63	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
Chloroethane	ND		4.9	1.1	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
Chloroform	ND		4.9	0.30	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
Chloromethane	ND		4.9	0.30	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
cis-1,2-Dichloroethene	ND		4.9	0.63	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
cis-1,3-Dichloropropene	ND		4.9	0.71	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
Cyclohexane	ND		4.9	0.69	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
Bromodichloromethane	ND		4.9	0.66	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
Dichlorodifluoromethane	ND		4.9	0.41	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
Ethylbenzene	ND		4.9	0.34	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
1,2-Dibromoethane	ND		4.9	0.63	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
Isopropylbenzene	ND		4.9	0.74	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
Methyl acetate	ND		4.9	3.0	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
Methyl tert-butyl ether	ND		4.9	0.48	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
Methylcyclohexane	ND		4.9	0.75	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
Methylene Chloride	ND		4.9	2.3	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
Styrene	ND		4.9	0.25	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
Tetrachloroethene	ND		4.9	0.66	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
Toluene	ND		4.9	0.37	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
trans-1,2-Dichloroethene	ND		4.9	0.51	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
trans-1,3-Dichloropropene	ND		4.9	2.2	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
Trichloroethene	ND		4.9	1.1	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
Trichlorofluoromethane	ND		4.9	0.46	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
Vinyl chloride	ND		4.9	0.60	ug/Kg		04/08/15 23:10	04/09/15 00:42	1
Xylenes, Total	ND		9.8	0.83	ug/Kg		04/08/15 23:10	04/09/15 00:42	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	90		64 - 126	04/08/15 23:10	04/09/15 00:42	1
Toluene-d8 (Surr)	98		71 - 125	04/08/15 23:10	04/09/15 00:42	1
4-Bromofluorobenzene (Surr)	95		72 - 126	04/08/15 23:10	04/09/15 00:42	1
Dibromofluoromethane (Surr)	94		60 - 140	04/08/15 23:10	04/09/15 00:42	1

Lab Sample ID: LCS 480-234987/1-A

Matrix: Solid

Analysis Batch: 234974

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 234987

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
1,1-Dichloroethane	49.7	51.6		ug/Kg		104	73 - 126

TestAmerica Buffalo

QC Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-234987/1-A

Matrix: Solid

Analysis Batch: 234974

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 234987

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	49.7	54.2		ug/Kg		109	59 - 125
1,2-Dichlorobenzene	49.7	48.6		ug/Kg		98	75 - 120
1,2-Dichloroethane	49.7	43.2		ug/Kg		87	77 - 122
Benzene	49.7	53.4		ug/Kg		107	79 - 127
Chlorobenzene	49.7	52.2		ug/Kg		105	76 - 124
cis-1,2-Dichloroethene	49.7	52.3		ug/Kg		105	81 - 117
Ethylbenzene	49.7	52.0		ug/Kg		105	80 - 120
Methyl tert-butyl ether	49.7	47.5		ug/Kg		96	63 - 125
Tetrachloroethene	49.7	53.8		ug/Kg		108	74 - 122
Toluene	49.7	52.2		ug/Kg		105	74 - 128
trans-1,2-Dichloroethene	49.7	52.9		ug/Kg		107	78 - 126
Trichloroethene	49.7	49.8		ug/Kg		100	77 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		64 - 126
Toluene-d8 (Surr)	100		71 - 125
4-Bromofluorobenzene (Surr)	101		72 - 126
Dibromofluoromethane (Surr)	94		60 - 140

Lab Sample ID: 480-77902-15 MS

Matrix: Solid

Analysis Batch: 234974

Client Sample ID: CHF-5B

Prep Type: Total/NA

Prep Batch: 234987

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	ND		55.2	55.5		ug/Kg	☼	101	73 - 126
1,1-Dichloroethene	ND		55.2	58.5		ug/Kg	☼	106	59 - 125
1,2-Dichlorobenzene	ND		55.2	48.0		ug/Kg	☼	87	75 - 120
1,2-Dichloroethane	ND	F1	55.2	38.2	F1	ug/Kg	☼	69	77 - 122
Benzene	0.49	J	55.2	57.4		ug/Kg	☼	103	79 - 127
Chlorobenzene	ND		55.2	55.0		ug/Kg	☼	100	76 - 124
cis-1,2-Dichloroethene	ND		55.2	54.7		ug/Kg	☼	99	81 - 117
Ethylbenzene	ND		55.2	56.9		ug/Kg	☼	103	80 - 120
Methyl tert-butyl ether	ND		55.2	38.5		ug/Kg	☼	70	63 - 125
Tetrachloroethene	ND		55.2	58.8		ug/Kg	☼	106	74 - 122
Toluene	0.64	J	55.2	58.8		ug/Kg	☼	105	74 - 128
trans-1,2-Dichloroethene	ND		55.2	57.8		ug/Kg	☼	105	78 - 126
Trichloroethene	ND		55.2	53.5		ug/Kg	☼	97	77 - 129

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	72		64 - 126
Toluene-d8 (Surr)	106		71 - 125
4-Bromofluorobenzene (Surr)	98		72 - 126
Dibromofluoromethane (Surr)	90		60 - 140

QC Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-77902-15 MSD

Matrix: Solid

Analysis Batch: 234974

Client Sample ID: CHF-5B

Prep Type: Total/NA

Prep Batch: 234987

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
1,1-Dichloroethane	ND		55.4	54.4		ug/Kg	☼	98	73 - 126		2	30
1,1-Dichloroethene	ND		55.4	56.1		ug/Kg	☼	101	59 - 125		4	30
1,2-Dichlorobenzene	ND		55.4	48.1		ug/Kg	☼	87	75 - 120		0	30
1,2-Dichloroethane	ND	F1	55.4	40.1	F1	ug/Kg	☼	72	77 - 122		5	30
Benzene	0.49	J	55.4	55.9		ug/Kg	☼	100	79 - 127		2	30
Chlorobenzene	ND		55.4	54.2		ug/Kg	☼	98	76 - 124		2	30
cis-1,2-Dichloroethene	ND		55.4	53.7		ug/Kg	☼	97	81 - 117		2	30
Ethylbenzene	ND		55.4	54.7		ug/Kg	☼	99	80 - 120		4	30
Methyl tert-butyl ether	ND		55.4	42.4		ug/Kg	☼	77	63 - 125		10	30
Tetrachloroethene	ND		55.4	55.8		ug/Kg	☼	101	74 - 122		5	30
Toluene	0.64	J	55.4	56.8		ug/Kg	☼	101	74 - 128		3	30
trans-1,2-Dichloroethene	ND		55.4	55.2		ug/Kg	☼	100	78 - 126		5	30
Trichloroethene	ND		55.4	52.0		ug/Kg	☼	94	77 - 129		3	30
MSD MSD												
Surrogate	%Recovery	Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)	74		64 - 126									
Toluene-d8 (Surr)	104		71 - 125									
4-Bromofluorobenzene (Surr)	99		72 - 126									
Dibromofluoromethane (Surr)	92		60 - 140									

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 200-86757/1-A

Matrix: Solid

Analysis Batch: 86803

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 86757

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
2,4,5-Trichlorophenol	ND		830	34	ug/Kg		04/13/15 08:37	04/14/15 11:38		1
2,4,6-Trichlorophenol	ND		330	34	ug/Kg		04/13/15 08:37	04/14/15 11:38		1
2,4-Dichlorophenol	ND		330	33	ug/Kg		04/13/15 08:37	04/14/15 11:38		1
2,4-Dimethylphenol	ND		330	52	ug/Kg		04/13/15 08:37	04/14/15 11:38		1
2,4-Dinitrophenol	ND		830	140	ug/Kg		04/13/15 08:37	04/14/15 11:38		1
2,4-Dinitrotoluene	ND		330	24	ug/Kg		04/13/15 08:37	04/14/15 11:38		1
2,6-Dinitrotoluene	ND		330	30	ug/Kg		04/13/15 08:37	04/14/15 11:38		1
2-Chloronaphthalene	ND		330	43	ug/Kg		04/13/15 08:37	04/14/15 11:38		1
2-Chlorophenol	ND		330	34	ug/Kg		04/13/15 08:37	04/14/15 11:38		1
2-Methylnaphthalene	ND		330	15	ug/Kg		04/13/15 08:37	04/14/15 11:38		1
2-Methylphenol	ND		330	40	ug/Kg		04/13/15 08:37	04/14/15 11:38		1
2-Nitroaniline	ND		830	37	ug/Kg		04/13/15 08:37	04/14/15 11:38		1
2-Nitrophenol	ND		330	37	ug/Kg		04/13/15 08:37	04/14/15 11:38		1
3 & 4 Methylphenol	ND		670	74	ug/Kg		04/13/15 08:37	04/14/15 11:38		1
3,3'-Dichlorobenzidine	ND		330	48	ug/Kg		04/13/15 08:37	04/14/15 11:38		1
3-Nitroaniline	ND		830	38	ug/Kg		04/13/15 08:37	04/14/15 11:38		1
4,6-Dinitro-2-methylphenol	ND		830	97	ug/Kg		04/13/15 08:37	04/14/15 11:38		1
4-Bromophenyl phenyl ether	ND		330	18	ug/Kg		04/13/15 08:37	04/14/15 11:38		1
4-Chloro-3-methylphenol	ND		330	40	ug/Kg		04/13/15 08:37	04/14/15 11:38		1
4-Chloroaniline	ND		330	32	ug/Kg		04/13/15 08:37	04/14/15 11:38		1

TestAmerica Buffalo

QC Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingsen

TestAmerica Job ID: 480-77902-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 200-86757/1-A

Matrix: Solid

Analysis Batch: 86803

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 86757

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4-Chlorophenyl phenyl ether	ND		330	15	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
4-Nitroaniline	ND		830	32	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
4-Nitrophenol	ND		830	84	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Acenaphthene	ND		330	13	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Acenaphthylene	ND		330	15	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Acetophenone	ND		330	16	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Anthracene	ND		330	14	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Atrazine	ND		330	16	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Benzaldehyde	ND		330	16	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Benzo(a)anthracene	ND		330	13	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Benzo(a)pyrene	ND		330	12	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Benzo(b)fluoranthene	ND		330	23	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Benzo(g,h,i)perylene	ND		330	13	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Benzo(k)fluoranthene	ND		330	30	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Biphenyl	ND		330	15	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
bis (2-chloroisopropyl) ether	ND		330	16	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Bis(2-chloroethoxy)methane	ND		330	15	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Bis(2-chloroethyl)ether	ND		330	15	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Bis(2-ethylhexyl) phthalate	43.4	J	330	21	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Butyl benzyl phthalate	ND		330	20	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Caprolactam	ND		330	35	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Carbazole	ND		330	15	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Chrysene	ND		330	18	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Dibenz(a,h)anthracene	ND		330	11	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Dibenzofuran	ND		330	16	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Diethyl phthalate	75.4	J	330	15	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Dimethyl phthalate	ND		330	15	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Di-n-butyl phthalate	ND		330	15	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Di-n-octyl phthalate	ND		330	23	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Fluoranthene	ND		330	12	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Fluorene	ND		330	15	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Hexachlorobenzene	ND		330	46	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Hexachlorobutadiene	ND		330	35	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Hexachlorocyclopentadiene	ND		330	65	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Hexachloroethane	ND		330	34	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Indeno(1,2,3-cd)pyrene	ND		330	14	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Isophorone	ND		330	42	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Naphthalene	ND		330	15	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Nitrobenzene	ND		330	41	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
N-Nitrosodi-n-propylamine	ND		330	46	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
N-Nitrosodiphenylamine	ND		330	16	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Pentachlorophenol	ND		830	68	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Phenanthrene	ND		330	12	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Phenol	ND		330	40	ug/Kg		04/13/15 08:37	04/14/15 11:38	1
Pyrene	ND		330	14	ug/Kg		04/13/15 08:37	04/14/15 11:38	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol	66		25 - 135	04/13/15 08:37	04/14/15 11:38	1

TestAmerica Buffalo

QC Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 200-86757/1-A
Matrix: Solid
Analysis Batch: 86803

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 86757

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	78		35 - 110	04/13/15 08:37	04/14/15 11:38	1
2-Fluorophenol	76		30 - 135	04/13/15 08:37	04/14/15 11:38	1
Nitrobenzene-d5	63		35 - 110	04/13/15 08:37	04/14/15 11:38	1
Phenol-d5	79		30 - 130	04/13/15 08:37	04/14/15 11:38	1
Terphenyl-d14 (Surr)	79		30 - 130	04/13/15 08:37	04/14/15 11:38	1

Lab Sample ID: LCS 200-86757/2-A
Matrix: Solid
Analysis Batch: 86803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 86757

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorophenol	1670	1150		ug/Kg		69	65 - 110
4-Chloro-3-methylphenol	1670	1220		ug/Kg		73	60 - 120
4-Nitrophenol	3330	2210		ug/Kg		66	40 - 140
Acenaphthene	1670	1190		ug/Kg		71	65 - 110
Bis(2-ethylhexyl) phthalate	1670	1300		ug/Kg		78	55 - 130
Fluorene	1670	1240		ug/Kg		74	65 - 110
Hexachloroethane	1670	1070		ug/Kg		64	60 - 105
N-Nitrosodi-n-propylamine	1670	1240		ug/Kg		74	65 - 120
Pentachlorophenol	3330	2220		ug/Kg		67	40 - 115
Phenol	1670	1200		ug/Kg		72	60 - 110
Pyrene	1670	1190		ug/Kg		71	60 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	81		25 - 135
2-Fluorobiphenyl	77		35 - 110
2-Fluorophenol	66		30 - 135
Nitrobenzene-d5	59		35 - 110
Phenol-d5	78		30 - 130
Terphenyl-d14 (Surr)	82		30 - 130

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-235202/1-A
Matrix: Solid
Analysis Batch: 235402

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 235202

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4,4'-DDD	ND		1.7	0.32	ug/Kg		04/09/15 16:11	04/10/15 13:39	1
4,4'-DDE	ND		1.7	0.35	ug/Kg		04/09/15 16:11	04/10/15 13:39	1
4,4'-DDT	0.645	J	1.7	0.39	ug/Kg		04/09/15 16:11	04/10/15 13:39	1
Aldrin	ND		1.7	0.41	ug/Kg		04/09/15 16:11	04/10/15 13:39	1
alpha-BHC	ND		1.7	0.30	ug/Kg		04/09/15 16:11	04/10/15 13:39	1
alpha-Chlordane	ND		1.7	0.83	ug/Kg		04/09/15 16:11	04/10/15 13:39	1
beta-BHC	ND		1.7	0.30	ug/Kg		04/09/15 16:11	04/10/15 13:39	1
delta-BHC	ND		1.7	0.31	ug/Kg		04/09/15 16:11	04/10/15 13:39	1

TestAmerica Buffalo

QC Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-235202/1-A

Matrix: Solid

Analysis Batch: 235402

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 235202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	ND		1.7	0.40	ug/Kg		04/09/15 16:11	04/10/15 13:39	1
Endosulfan I	ND		1.7	0.32	ug/Kg		04/09/15 16:11	04/10/15 13:39	1
Endosulfan II	ND		1.7	0.30	ug/Kg		04/09/15 16:11	04/10/15 13:39	1
Endosulfan sulfate	ND		1.7	0.31	ug/Kg		04/09/15 16:11	04/10/15 13:39	1
Endrin	ND		1.7	0.33	ug/Kg		04/09/15 16:11	04/10/15 13:39	1
Endrin aldehyde	ND		1.7	0.42	ug/Kg		04/09/15 16:11	04/10/15 13:39	1
Endrin ketone	ND		1.7	0.41	ug/Kg		04/09/15 16:11	04/10/15 13:39	1
gamma-BHC (Lindane)	ND		1.7	0.30	ug/Kg		04/09/15 16:11	04/10/15 13:39	1
gamma-Chlordane	ND		1.7	0.53	ug/Kg		04/09/15 16:11	04/10/15 13:39	1
Heptachlor	ND		1.7	0.36	ug/Kg		04/09/15 16:11	04/10/15 13:39	1
Heptachlor epoxide	ND		1.7	0.43	ug/Kg		04/09/15 16:11	04/10/15 13:39	1
Methoxychlor	ND		1.7	0.34	ug/Kg		04/09/15 16:11	04/10/15 13:39	1
Toxaphene	ND		17	9.7	ug/Kg		04/09/15 16:11	04/10/15 13:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	94		32 - 136	04/09/15 16:11	04/10/15 13:39	1
Tetrachloro-m-xylene	94		30 - 124	04/09/15 16:11	04/10/15 13:39	1

Lab Sample ID: LCS 480-235202/2-A

Matrix: Solid

Analysis Batch: 235402

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 235202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.5	17.4		ug/Kg		106	52 - 138
4,4'-DDE	16.5	15.4		ug/Kg		94	52 - 131
4,4'-DDT	16.5	17.0		ug/Kg		103	50 - 131
Aldrin	16.5	14.4		ug/Kg		88	35 - 120
alpha-BHC	16.5	15.7		ug/Kg		95	49 - 120
alpha-Chlordane	16.5	15.9		ug/Kg		96	40 - 133
beta-BHC	16.5	15.9		ug/Kg		96	52 - 127
delta-BHC	16.5	16.1		ug/Kg		98	45 - 123
Dieldrin	16.5	16.8		ug/Kg		102	50 - 131
Endosulfan I	16.5	15.1		ug/Kg		92	43 - 121
Endosulfan II	16.5	15.8		ug/Kg		96	48 - 134
Endosulfan sulfate	16.5	17.1		ug/Kg		104	46 - 144
Endrin	16.5	16.6		ug/Kg		101	46 - 134
Endrin aldehyde	16.5	16.3		ug/Kg		99	31 - 137
Endrin ketone	16.5	17.5		ug/Kg		106	44 - 140
gamma-BHC (Lindane)	16.5	16.8		ug/Kg		102	50 - 120
gamma-Chlordane	16.5	15.5		ug/Kg		94	52 - 129
Heptachlor	16.5	16.4		ug/Kg		99	51 - 121
Heptachlor epoxide	16.5	15.8		ug/Kg		96	52 - 129
Methoxychlor	16.5	20.7		ug/Kg		126	50 - 149

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	94		32 - 136
Tetrachloro-m-xylene	92		30 - 124

TestAmerica Buffalo

QC Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-77902-1 MS

Matrix: Solid

Analysis Batch: 235402

Client Sample ID: CHF-1

Prep Type: Total/NA

Prep Batch: 235202

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		17.8	17.5		ug/Kg	*	98	26 - 162
4,4'-DDE	0.43	J	17.8	14.6		ug/Kg	*	80	34 - 138
4,4'-DDT	0.65	J B	17.8	13.6		ug/Kg	*	72	43 - 131
Aldrin	ND		17.8	15.7		ug/Kg	*	88	37 - 125
alpha-BHC	ND		17.8	16.1		ug/Kg	*	90	39 - 117
alpha-Chlordane	ND		17.8	15.8		ug/Kg	*	89	29 - 141
beta-BHC	ND		17.8	15.2		ug/Kg	*	85	36 - 139
delta-BHC	0.45	J	17.8	16.1		ug/Kg	*	88	23 - 132
Dieldrin	ND		17.8	17.5		ug/Kg	*	98	38 - 135
Endosulfan I	ND		17.8	15.1		ug/Kg	*	85	39 - 128
Endosulfan II	ND		17.8	16.2		ug/Kg	*	91	24 - 134
Endosulfan sulfate	ND		17.8	17.5		ug/Kg	*	98	19 - 137
Endrin	ND		17.8	16.8		ug/Kg	*	94	41 - 147
Endrin aldehyde	0.67	J	17.8	14.6		ug/Kg	*	78	20 - 120
Endrin ketone	ND		17.8	18.0		ug/Kg	*	101	31 - 139
gamma-BHC (Lindane)	ND		17.8	17.5		ug/Kg	*	98	50 - 120
gamma-Chlordane	ND		17.8	15.0		ug/Kg	*	79	31 - 140
Heptachlor	ND		17.8	16.9		ug/Kg	*	95	42 - 128
Heptachlor epoxide	ND		17.8	16.1		ug/Kg	*	90	26 - 141
Methoxychlor	ND		17.8	21.9		ug/Kg	*	123	44 - 157
	MS MS								
Surrogate	%Recovery	Qualifier	Limits						
DCB Decachlorobiphenyl	95		32 - 136						
Tetrachloro-m-xylene	87		30 - 124						

Lab Sample ID: 480-77902-1 MSD

Matrix: Solid

Analysis Batch: 235402

Client Sample ID: CHF-1

Prep Type: Total/NA

Prep Batch: 235202

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		18.2	17.2		ug/Kg	*	94	26 - 162	2	21
4,4'-DDE	0.43	J	18.2	14.9		ug/Kg	*	80	34 - 138	2	18
4,4'-DDT	0.65	J B	18.2	14.4		ug/Kg	*	76	43 - 131	6	25
Aldrin	ND		18.2	15.8		ug/Kg	*	87	37 - 125	0	12
alpha-BHC	ND		18.2	16.0		ug/Kg	*	88	39 - 117	0	15
alpha-Chlordane	ND		18.2	15.8		ug/Kg	*	87	29 - 141	0	23
beta-BHC	ND		18.2	15.6		ug/Kg	*	86	36 - 139	3	19
delta-BHC	0.45	J	18.2	16.1		ug/Kg	*	86	23 - 132	0	14
Dieldrin	ND		18.2	17.1		ug/Kg	*	94	38 - 135	3	12
Endosulfan I	ND		18.2	15.3		ug/Kg	*	84	39 - 128	1	18
Endosulfan II	ND		18.2	15.9		ug/Kg	*	88	24 - 134	2	26
Endosulfan sulfate	ND		18.2	16.7		ug/Kg	*	92	19 - 137	4	35
Endrin	ND		18.2	16.5		ug/Kg	*	91	41 - 147	2	20
Endrin aldehyde	0.67	J	18.2	14.9		ug/Kg	*	78	20 - 120	2	47
Endrin ketone	ND		18.2	17.7		ug/Kg	*	98	31 - 139	1	37
gamma-BHC (Lindane)	ND		18.2	17.4		ug/Kg	*	96	50 - 120	1	12
gamma-Chlordane	ND		18.2	15.4		ug/Kg	*	80	31 - 140	3	15
Heptachlor	ND		18.2	16.9		ug/Kg	*	93	42 - 128	0	22

TestAmerica Buffalo

QC Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-77902-1 MSD

Matrix: Solid

Analysis Batch: 235402

Client Sample ID: CHF-1

Prep Type: Total/NA

Prep Batch: 235202

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Heptachlor epoxide	ND		18.2	16.1		ug/Kg	☼	89	26 - 141	0	15
Methoxychlor	ND		18.2	18.7		ug/Kg	☼	103	44 - 157	16	24
Surrogate	%Recovery	Qualifier	Limits								
DCB Decachlorobiphenyl	40		32 - 136								
Tetrachloro-m-xylene	85		30 - 124								

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-235225/1-A

Matrix: Solid

Analysis Batch: 235425

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 235225

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		0.23	0.045	mg/Kg		04/09/15 17:30	04/10/15 13:42	1
PCB-1221	ND		0.23	0.045	mg/Kg		04/09/15 17:30	04/10/15 13:42	1
PCB-1232	ND		0.23	0.045	mg/Kg		04/09/15 17:30	04/10/15 13:42	1
PCB-1242	ND		0.23	0.045	mg/Kg		04/09/15 17:30	04/10/15 13:42	1
PCB-1248	ND		0.23	0.045	mg/Kg		04/09/15 17:30	04/10/15 13:42	1
PCB-1254	ND		0.23	0.11	mg/Kg		04/09/15 17:30	04/10/15 13:42	1
PCB-1260	ND		0.23	0.11	mg/Kg		04/09/15 17:30	04/10/15 13:42	1
PCB-1262	ND		0.23	0.11	mg/Kg		04/09/15 17:30	04/10/15 13:42	1
PCB-1268	ND		0.23	0.11	mg/Kg		04/09/15 17:30	04/10/15 13:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	106		46 - 175				04/09/15 17:30	04/10/15 13:42	1
DCB Decachlorobiphenyl	101		47 - 176				04/09/15 17:30	04/10/15 13:42	1

Lab Sample ID: LCS 480-235225/2-A

Matrix: Solid

Analysis Batch: 235425

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 235225

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
PCB-1016	1.99	2.61		mg/Kg		131	51 - 185
PCB-1260	1.99	2.57		mg/Kg		129	61 - 184
Surrogate	%Recovery	Qualifier	Limits				
Tetrachloro-m-xylene	112		46 - 175				
DCB Decachlorobiphenyl	114		47 - 176				

Lab Sample ID: 480-77902-1 MS

Matrix: Solid

Analysis Batch: 235425

Client Sample ID: CHF-1

Prep Type: Total/NA

Prep Batch: 235225

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
PCB-1016	ND		2.35	3.05		mg/Kg	☼	130	42 - 159
PCB-1260	ND		2.35	3.00		mg/Kg	☼	128	47 - 153

TestAmerica Buffalo

QC Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 480-77902-1 MS
Matrix: Solid
Analysis Batch: 235425

Client Sample ID: CHF-1
Prep Type: Total/NA
Prep Batch: 235225

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	112		46 - 175
DCB Decachlorobiphenyl	113		47 - 176

Lab Sample ID: 480-77902-1 MSD
Matrix: Solid
Analysis Batch: 235425

Client Sample ID: CHF-1
Prep Type: Total/NA
Prep Batch: 235225

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec.		RPD	
				Result	Qualifier				Limits	RPD	Limit	
PCB-1016	ND		2.53	3.30		mg/Kg	☼	130	42 - 159	8	50	
PCB-1260	ND		2.53	3.21		mg/Kg	☼	127	47 - 153	6	50	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	118		46 - 175
DCB Decachlorobiphenyl	113		47 - 176

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-234732/1-A
Matrix: Solid
Analysis Batch: 236267

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 234732

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,4,5-T	ND		17	5.3	ug/Kg		04/08/15 07:40	04/15/15 11:06	1
2,4-D	ND		17	10	ug/Kg		04/08/15 07:40	04/15/15 11:06	1
Silvex (2,4,5-TP)	ND		17	6.0	ug/Kg		04/08/15 07:40	04/15/15 11:06	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4-Dichlorophenylacetic acid	74		39 - 120	04/08/15 07:40	04/15/15 11:06	1

Lab Sample ID: LCS 480-234732/2-A
Matrix: Solid
Analysis Batch: 236267

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 234732

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	
2,4,5-T	65.8	51.9		ug/Kg		79	42 - 127	
2,4-D	65.8	53.0		ug/Kg		80	47 - 130	
Silvex (2,4,5-TP)	65.8	54.8		ug/Kg		83	42 - 149	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4-Dichlorophenylacetic acid	77		39 - 120

TestAmerica Buffalo

QC Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingsen

TestAmerica Job ID: 480-77902-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-235162/1-A
Matrix: Solid
Analysis Batch: 235545

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 235162

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10.2	4.5	mg/Kg		04/09/15 15:30	04/10/15 21:19	1
Antimony	ND		15.3	0.41	mg/Kg		04/09/15 15:30	04/10/15 21:19	1
Barium	ND		0.51	0.11	mg/Kg		04/09/15 15:30	04/10/15 21:19	1
Beryllium	ND		0.20	0.029	mg/Kg		04/09/15 15:30	04/10/15 21:19	1
Cadmium	ND		0.20	0.031	mg/Kg		04/09/15 15:30	04/10/15 21:19	1
Calcium	11.65	J	50.9	3.4	mg/Kg		04/09/15 15:30	04/10/15 21:19	1
Chromium	ND		0.51	0.20	mg/Kg		04/09/15 15:30	04/10/15 21:19	1
Cobalt	ND		0.51	0.051	mg/Kg		04/09/15 15:30	04/10/15 21:19	1
Copper	ND		1.0	0.21	mg/Kg		04/09/15 15:30	04/10/15 21:19	1
Iron	ND		10.2	1.1	mg/Kg		04/09/15 15:30	04/10/15 21:19	1
Lead	0.321	J	1.0	0.24	mg/Kg		04/09/15 15:30	04/10/15 21:19	1
Magnesium	3.89	J	20.4	0.94	mg/Kg		04/09/15 15:30	04/10/15 21:19	1
Manganese	0.0744	J	0.20	0.033	mg/Kg		04/09/15 15:30	04/10/15 21:19	1
Nickel	ND		5.1	0.23	mg/Kg		04/09/15 15:30	04/10/15 21:19	1
Potassium	ND		30.6	20.4	mg/Kg		04/09/15 15:30	04/10/15 21:19	1
Selenium	ND		4.1	0.41	mg/Kg		04/09/15 15:30	04/10/15 21:19	1
Silver	ND		0.51	0.20	mg/Kg		04/09/15 15:30	04/10/15 21:19	1
Sodium	ND		143	13.2	mg/Kg		04/09/15 15:30	04/10/15 21:19	1
Thallium	ND		6.1	0.31	mg/Kg		04/09/15 15:30	04/10/15 21:19	1
Vanadium	ND		0.51	0.11	mg/Kg		04/09/15 15:30	04/10/15 21:19	1
Zinc	0.472	J	2.0	0.16	mg/Kg		04/09/15 15:30	04/10/15 21:19	1

Lab Sample ID: MB 480-235162/1-A
Matrix: Solid
Analysis Batch: 235726

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 235162

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.41	mg/Kg		04/09/15 15:30	04/11/15 18:01	1

Lab Sample ID: LCSSRM 480-235162/2-A
Matrix: Solid
Analysis Batch: 235545

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 235162

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8740	7680		mg/Kg		87.9	41.6 - 157.9
Antimony	108	88.06		mg/Kg		81.5	23.0 - 254.6
Beryllium	149	105.0		mg/Kg		70.5	67.0 - 111.4
Cadmium	152	115.7		mg/Kg		76.1	73.0 - 126.3
Calcium	6400	4883		mg/Kg		76.3	73.9 - 125.9
Chromium	117	90.36		mg/Kg		77.2	69.7 - 129.9
Cobalt	68.7	56.86		mg/Kg		82.8	74.4 - 125.8
Copper	68.6	56.01		mg/Kg		81.7	73.2 - 129.2

TestAmerica Buffalo

QC Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-235162/2-A
Matrix: Solid
Analysis Batch: 235545

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 235162

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	12300	9979		mg/Kg		81.1	30.5 - 169.9
Lead	254	200.4		mg/Kg		78.9	75.6 - 124.8
Magnesium	3600	2808		mg/Kg		78.0	68.3 - 131.7
Manganese	563	436.6		mg/Kg		77.6	77.4 - 122.6
Nickel	315	261.3		mg/Kg		83.0	74.3 - 126.7
Potassium	3040	2417		mg/Kg		79.5	62.5 - 137.2
Selenium	162	123.2		mg/Kg		76.0	67.3 - 132.1
Silver	44.3	34.98		mg/Kg		79.0	66.4 - 133.9
Sodium	746	569.4		mg/Kg		76.3	56.8 - 143.4
Thallium	259	208.4		mg/Kg		80.5	69.5 - 130.5
Vanadium	116	97.74		mg/Kg		84.3	67.5 - 131.9
Zinc	306	248.5		mg/Kg		81.2	71.9 - 128.4

Lab Sample ID: LCSSRM 480-235162/2-A
Matrix: Solid
Analysis Batch: 235726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 235162

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	151	113.4		mg/Kg		75.1	70.9 - 129.8
Barium	262	207.7		mg/Kg		79.3	73.7 - 126.3

Lab Sample ID: 480-77902-1 MS
Matrix: Solid
Analysis Batch: 235545

Client Sample ID: CHF-1
Prep Type: Total/NA
Prep Batch: 235162

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2900	F1	2120	7397	F1	mg/Kg	☼	212	75 - 125
Antimony	ND		42.4	37.08		mg/Kg	☼	87	75 - 125
Barium	12.3	*	42.4	57.87		mg/Kg	☼	107	75 - 125
Beryllium	0.19	J	42.4	41.25		mg/Kg	☼	97	75 - 125
Cadmium	0.21		42.4	41.65		mg/Kg	☼	98	75 - 125
Calcium	52600	B	2120	55120	4	mg/Kg	☼	121	75 - 125
Chromium	4.1		42.4	45.30		mg/Kg	☼	97	75 - 125
Cobalt	1.9		42.4	44.47		mg/Kg	☼	100	75 - 125
Copper	7.4		42.4	51.53		mg/Kg	☼	104	75 - 125
Iron	5510	F1	2120	8307	F1	mg/Kg	☼	132	75 - 125
Lead	7.2	B	42.4	50.07		mg/Kg	☼	101	75 - 125
Magnesium	24300	B	2120	25250	4	mg/Kg	☼	43	75 - 125

TestAmerica Buffalo

QC Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-77902-1 MS

Matrix: Solid

Analysis Batch: 235545

Client Sample ID: CHF-1

Prep Type: Total/NA

Prep Batch: 235162

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	
	Result	Qualifier		Result	Qualifier				Limits	Limits
Manganese	239	B	42.4	277.9	4	mg/Kg	☼	91	75 - 125	
Nickel	4.2	J	42.4	45.57		mg/Kg	☼	97	75 - 125	
Potassium	787	F1	2120	3747	F1	mg/Kg	☼	139	75 - 125	
Selenium	ND		42.4	38.54		mg/Kg	☼	91	75 - 125	
Silver	ND	F2	10.6	13.26		mg/Kg	☼	125	75 - 125	
Sodium	173		2130	2320		mg/Kg	☼	101	75 - 125	
Thallium	ND		42.4	40.04		mg/Kg	☼	94	75 - 125	
Vanadium	9.0		42.4	56.10		mg/Kg	☼	111	75 - 125	
Zinc	68.4	B F1	42.4	105.0		mg/Kg	☼	86	75 - 125	

Lab Sample ID: 480-77902-1 MS

Matrix: Solid

Analysis Batch: 235726

Client Sample ID: CHF-1

Prep Type: Total/NA

Prep Batch: 235162

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	
	Result	Qualifier		Result	Qualifier				Limits	Limits
Arsenic	1.5	J	42.4	40.39		mg/Kg	☼	92	75 - 125	
Barium	12.8		42.4	59.38		mg/Kg	☼	110	75 - 125	

Lab Sample ID: 480-77902-1 MSD

Matrix: Solid

Analysis Batch: 235545

Client Sample ID: CHF-1

Prep Type: Total/NA

Prep Batch: 235162

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier		Result	Qualifier				Limits	Limits	RPD	Limit
Aluminum	2900	F1	2220	6359	F1	mg/Kg	☼	156	75 - 125		15	20
Antimony	ND		44.5	33.61		mg/Kg	☼	76	75 - 125		10	20
Barium	12.3	*	44.5	50.98		mg/Kg	☼	87	75 - 125		13	20
Beryllium	0.19	J	44.5	37.35		mg/Kg	☼	84	75 - 125		10	20
Cadmium	0.21		44.5	37.78		mg/Kg	☼	84	75 - 125		10	20
Calcium	52600	B	2220	49350	4	mg/Kg	☼	-144	75 - 125		11	20
Chromium	4.1		44.5	41.34		mg/Kg	☼	84	75 - 125		9	20
Cobalt	1.9		44.5	39.89		mg/Kg	☼	85	75 - 125		11	20
Copper	7.4		44.5	46.09		mg/Kg	☼	87	75 - 125		11	20
Iron	5510	F1	2220	7235		mg/Kg	☼	78	75 - 125		14	20
Lead	7.2	B	44.5	43.98		mg/Kg	☼	83	75 - 125		13	20
Magnesium	24300	B	2220	23250	4	mg/Kg	☼	-49	75 - 125		8	20
Manganese	239	B	44.5	246.7	4	mg/Kg	☼	17	75 - 125		12	20
Nickel	4.2	J	44.5	41.13		mg/Kg	☼	83	75 - 125		10	20
Potassium	787	F1	2230	3281		mg/Kg	☼	112	75 - 125		13	20
Selenium	ND		44.5	35.59		mg/Kg	☼	80	75 - 125		8	20
Silver	ND	F2	11.1	9.79	F2	mg/Kg	☼	88	75 - 125		30	20
Sodium	173		2230	2066		mg/Kg	☼	85	75 - 125		12	20
Thallium	ND		44.5	36.36		mg/Kg	☼	82	75 - 125		10	20
Vanadium	9.0		44.5	50.23		mg/Kg	☼	93	75 - 125		11	20
Zinc	68.4	B F1	44.5	98.04	F1	mg/Kg	☼	67	75 - 125		7	20

TestAmerica Buffalo

QC Sample Results

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-77902-1 MSD

Matrix: Solid

Analysis Batch: 235726

Client Sample ID: CHF-1

Prep Type: Total/NA

Prep Batch: 235162

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Arsenic	1.5	J	44.5	36.53		mg/Kg	☼	79	75 - 125	10	20
Barium	12.8		44.5	52.26		mg/Kg	☼	89	75 - 125	13	20

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 480-236601/1-A

Matrix: Solid

Analysis Batch: 236693

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 236601

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Hg	ND		0.020	0.0081	mg/Kg		04/16/15 14:35	04/16/15 15:41	1

Lab Sample ID: LCSSRM 480-236601/2-A

Matrix: Solid

Analysis Batch: 236693

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 236601

Analyte	Spike	LCSSRM	LCSSRM	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Hg	5.76	5.21		mg/Kg		90.5	51.0 - 148.8

Lab Sample ID: 480-77902-1 MS

Matrix: Solid

Analysis Batch: 236693

Client Sample ID: CHF-1

Prep Type: Total/NA

Prep Batch: 236601

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				Limits
Hg	ND		0.340	0.330		mg/Kg	☼	97	80 - 120

Lab Sample ID: 480-77902-1 MSD

Matrix: Solid

Analysis Batch: 236693

Client Sample ID: CHF-1

Prep Type: Total/NA

Prep Batch: 236601

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Hg	ND		0.365	0.349		mg/Kg	☼	96	80 - 120	6	20

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-235507/1-A

Matrix: Solid

Analysis Batch: 235618

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 235507

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cyanide, Total	0.895	J	0.98	0.47	mg/Kg		04/10/15 15:51	04/11/15 10:42	1

Lab Sample ID: LCS 480-235507/2-A ^5

Matrix: Solid

Analysis Batch: 235618

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 235507

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Cyanide, Total	101	98.83		mg/Kg		98	29 - 122

TestAmerica Buffalo

QC Sample Results

Client: Iyer Environmental Group, LLC
 Project/Site: 132 Dings

TestAmerica Job ID: 480-77902-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: 480-77902-3 DU
Matrix: Solid
Analysis Batch: 235618

Client Sample ID: CHF-3
Prep Type: Total/NA
Prep Batch: 235507

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Cyanide, Total	ND		ND		mg/Kg	✪	NC	15

Lab Sample ID: MB 480-236126/1-A
Matrix: Solid
Analysis Batch: 236347

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 236126

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.99	0.48	mg/Kg		04/14/15 15:30	04/15/15 13:03	1

Lab Sample ID: LCS 480-236126/2-A ^5
Matrix: Solid
Analysis Batch: 236347

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 236126

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	101	92.61		mg/Kg		92	29 - 122

QC Association Summary

Client: Iyer Environmental Group, LLC
 Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

GC/MS VOA

Analysis Batch: 234784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-77902-6	CHF-1A	Total/NA	Solid	8260C	234791
480-77902-6 MS	CHF-1A	Total/NA	Solid	8260C	234791
480-77902-6 MSD	CHF-1A	Total/NA	Solid	8260C	234791
480-77902-7	CHF-1B	Total/NA	Solid	8260C	234791
480-77902-8	CHF-2A	Total/NA	Solid	8260C	234791
480-77902-9	CHF-2B	Total/NA	Solid	8260C	234791
480-77902-10	CHF-3A	Total/NA	Solid	8260C	234791
LCS 480-234791/1-A	Lab Control Sample	Total/NA	Solid	8260C	234791
MB 480-234791/2-A	Method Blank	Total/NA	Solid	8260C	234791

Prep Batch: 234791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-77902-6	CHF-1A	Total/NA	Solid	5035	
480-77902-6 MS	CHF-1A	Total/NA	Solid	5035	
480-77902-6 MSD	CHF-1A	Total/NA	Solid	5035	
480-77902-7	CHF-1B	Total/NA	Solid	5035	
480-77902-8	CHF-2A	Total/NA	Solid	5035	
480-77902-9	CHF-2B	Total/NA	Solid	5035	
480-77902-10	CHF-3A	Total/NA	Solid	5035	
480-77902-11	CHF-3B	Total/NA	Solid	5035	
480-77902-12	CHF-4A	Total/NA	Solid	5035	
480-77902-13	CHF-4B	Total/NA	Solid	5035	
480-77902-14	CHF-5A	Total/NA	Solid	5035	
LCS 480-234791/1-A	Lab Control Sample	Total/NA	Solid	5035	
MB 480-234791/2-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 234974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-77902-11	CHF-3B	Total/NA	Solid	8260C	234791
480-77902-12	CHF-4A	Total/NA	Solid	8260C	234791
480-77902-13	CHF-4B	Total/NA	Solid	8260C	234791
480-77902-14	CHF-5A	Total/NA	Solid	8260C	234791
480-77902-15	CHF-5B	Total/NA	Solid	8260C	234987
480-77902-15 MS	CHF-5B	Total/NA	Solid	8260C	234987
480-77902-15 MSD	CHF-5B	Total/NA	Solid	8260C	234987
480-77902-16	CRS-1	Total/NA	Solid	8260C	234987
LCS 480-234987/1-A	Lab Control Sample	Total/NA	Solid	8260C	234987
MB 480-234987/2-A	Method Blank	Total/NA	Solid	8260C	234987

Prep Batch: 234987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-77902-15	CHF-5B	Total/NA	Solid	5035	
480-77902-15 MS	CHF-5B	Total/NA	Solid	5035	
480-77902-15 MSD	CHF-5B	Total/NA	Solid	5035	
480-77902-16	CRS-1	Total/NA	Solid	5035	
LCS 480-234987/1-A	Lab Control Sample	Total/NA	Solid	5035	
MB 480-234987/2-A	Method Blank	Total/NA	Solid	5035	

QC Association Summary

Client: Iyer Environmental Group, LLC
 Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

GC/MS Semi VOA

Prep Batch: 86757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-77902-1	CHF-1	Total/NA	Solid	3550C	
480-77902-2	CHF-2	Total/NA	Solid	3550C	
480-77902-3	CHF-3	Total/NA	Solid	3550C	
480-77902-4	CHF-4	Total/NA	Solid	3550C	
480-77902-5	CHF-5	Total/NA	Solid	3550C	
480-77902-16	CRS-1	Total/NA	Solid	3550C	
LCS 200-86757/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 200-86757/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 86803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-77902-1	CHF-1	Total/NA	Solid	8270D	86757
480-77902-2	CHF-2	Total/NA	Solid	8270D	86757
480-77902-3	CHF-3	Total/NA	Solid	8270D	86757
480-77902-4	CHF-4	Total/NA	Solid	8270D	86757
480-77902-5	CHF-5	Total/NA	Solid	8270D	86757
480-77902-16	CRS-1	Total/NA	Solid	8270D	86757
LCS 200-86757/2-A	Lab Control Sample	Total/NA	Solid	8270D	86757
MB 200-86757/1-A	Method Blank	Total/NA	Solid	8270D	86757

GC Semi VOA

Prep Batch: 234732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-77902-1	CHF-1	Total/NA	Solid	8151A	
480-77902-2	CHF-2	Total/NA	Solid	8151A	
480-77902-3	CHF-3	Total/NA	Solid	8151A	
480-77902-4	CHF-4	Total/NA	Solid	8151A	
480-77902-5	CHF-5	Total/NA	Solid	8151A	
480-77902-16	CRS-1	Total/NA	Solid	8151A	
LCS 480-234732/2-A	Lab Control Sample	Total/NA	Solid	8151A	
MB 480-234732/1-A	Method Blank	Total/NA	Solid	8151A	

Prep Batch: 235202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-77902-1	CHF-1	Total/NA	Solid	3550C	
480-77902-1 MS	CHF-1	Total/NA	Solid	3550C	
480-77902-1 MSD	CHF-1	Total/NA	Solid	3550C	
480-77902-2	CHF-2	Total/NA	Solid	3550C	
480-77902-3	CHF-3	Total/NA	Solid	3550C	
480-77902-4	CHF-4	Total/NA	Solid	3550C	
480-77902-5	CHF-5	Total/NA	Solid	3550C	
480-77902-16	CRS-1	Total/NA	Solid	3550C	
LCS 480-235202/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-235202/1-A	Method Blank	Total/NA	Solid	3550C	

Prep Batch: 235225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-77902-1	CHF-1	Total/NA	Solid	3550C	
480-77902-1 MS	CHF-1	Total/NA	Solid	3550C	

TestAmerica Buffalo

QC Association Summary

Client: Iyer Environmental Group, LLC
 Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

GC Semi VOA (Continued)

Prep Batch: 235225 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-77902-1 MSD	CHF-1	Total/NA	Solid	3550C	
480-77902-2	CHF-2	Total/NA	Solid	3550C	
480-77902-3	CHF-3	Total/NA	Solid	3550C	
480-77902-4	CHF-4	Total/NA	Solid	3550C	
480-77902-5	CHF-5	Total/NA	Solid	3550C	
480-77902-16	CRS-1	Total/NA	Solid	3550C	
LCS 480-235225/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-235225/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 235402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-77902-1	CHF-1	Total/NA	Solid	8081B	235202
480-77902-1 MS	CHF-1	Total/NA	Solid	8081B	235202
480-77902-1 MSD	CHF-1	Total/NA	Solid	8081B	235202
480-77902-2	CHF-2	Total/NA	Solid	8081B	235202
480-77902-3	CHF-3	Total/NA	Solid	8081B	235202
480-77902-4	CHF-4	Total/NA	Solid	8081B	235202
480-77902-5	CHF-5	Total/NA	Solid	8081B	235202
480-77902-16	CRS-1	Total/NA	Solid	8081B	235202
LCS 480-235202/2-A	Lab Control Sample	Total/NA	Solid	8081B	235202
MB 480-235202/1-A	Method Blank	Total/NA	Solid	8081B	235202

Analysis Batch: 235425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-77902-1	CHF-1	Total/NA	Solid	8082A	235225
480-77902-1 MS	CHF-1	Total/NA	Solid	8082A	235225
480-77902-1 MSD	CHF-1	Total/NA	Solid	8082A	235225
480-77902-2	CHF-2	Total/NA	Solid	8082A	235225
480-77902-3	CHF-3	Total/NA	Solid	8082A	235225
480-77902-4	CHF-4	Total/NA	Solid	8082A	235225
480-77902-5	CHF-5	Total/NA	Solid	8082A	235225
480-77902-16	CRS-1	Total/NA	Solid	8082A	235225
LCS 480-235225/2-A	Lab Control Sample	Total/NA	Solid	8082A	235225
MB 480-235225/1-A	Method Blank	Total/NA	Solid	8082A	235225

Analysis Batch: 236267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-234732/2-A	Lab Control Sample	Total/NA	Solid	8151A	234732
MB 480-234732/1-A	Method Blank	Total/NA	Solid	8151A	234732

Analysis Batch: 236680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-77902-1	CHF-1	Total/NA	Solid	8151A	234732
480-77902-2	CHF-2	Total/NA	Solid	8151A	234732
480-77902-3	CHF-3	Total/NA	Solid	8151A	234732
480-77902-4	CHF-4	Total/NA	Solid	8151A	234732
480-77902-5	CHF-5	Total/NA	Solid	8151A	234732
480-77902-16	CRS-1	Total/NA	Solid	8151A	234732

QC Association Summary

Client: Iyer Environmental Group, LLC
 Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Metals

Prep Batch: 235162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-77902-1	CHF-1	Total/NA	Solid	3050B	
480-77902-1 MS	CHF-1	Total/NA	Solid	3050B	
480-77902-1 MSD	CHF-1	Total/NA	Solid	3050B	
480-77902-2	CHF-2	Total/NA	Solid	3050B	
480-77902-3	CHF-3	Total/NA	Solid	3050B	
480-77902-4	CHF-4	Total/NA	Solid	3050B	
480-77902-5	CHF-5	Total/NA	Solid	3050B	
480-77902-16	CRS-1	Total/NA	Solid	3050B	
LCSSRM 480-235162/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 480-235162/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 235545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-77902-1	CHF-1	Total/NA	Solid	6010C	235162
480-77902-1 MS	CHF-1	Total/NA	Solid	6010C	235162
480-77902-1 MSD	CHF-1	Total/NA	Solid	6010C	235162
480-77902-2	CHF-2	Total/NA	Solid	6010C	235162
480-77902-3	CHF-3	Total/NA	Solid	6010C	235162
480-77902-4	CHF-4	Total/NA	Solid	6010C	235162
480-77902-5	CHF-5	Total/NA	Solid	6010C	235162
480-77902-16	CRS-1	Total/NA	Solid	6010C	235162
LCSSRM 480-235162/2-A	Lab Control Sample	Total/NA	Solid	6010C	235162
MB 480-235162/1-A	Method Blank	Total/NA	Solid	6010C	235162

Analysis Batch: 235726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-77902-1	CHF-1	Total/NA	Solid	6010C	235162
480-77902-1 MS	CHF-1	Total/NA	Solid	6010C	235162
480-77902-1 MSD	CHF-1	Total/NA	Solid	6010C	235162
480-77902-2	CHF-2	Total/NA	Solid	6010C	235162
480-77902-3	CHF-3	Total/NA	Solid	6010C	235162
480-77902-4	CHF-4	Total/NA	Solid	6010C	235162
480-77902-5	CHF-5	Total/NA	Solid	6010C	235162
480-77902-16	CRS-1	Total/NA	Solid	6010C	235162
LCSSRM 480-235162/2-A	Lab Control Sample	Total/NA	Solid	6010C	235162
MB 480-235162/1-A	Method Blank	Total/NA	Solid	6010C	235162

Analysis Batch: 235835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-77902-16	CRS-1	Total/NA	Solid	6010C	235162

Prep Batch: 236601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-77902-1	CHF-1	Total/NA	Solid	7471B	
480-77902-1 MS	CHF-1	Total/NA	Solid	7471B	
480-77902-1 MSD	CHF-1	Total/NA	Solid	7471B	
480-77902-2	CHF-2	Total/NA	Solid	7471B	
480-77902-3	CHF-3	Total/NA	Solid	7471B	
480-77902-4	CHF-4	Total/NA	Solid	7471B	
480-77902-5	CHF-5	Total/NA	Solid	7471B	
480-77902-16	CRS-1	Total/NA	Solid	7471B	

TestAmerica Buffalo

QC Association Summary

Client: Iyer Environmental Group, LLC
 Project/Site: 132 Dingsen

TestAmerica Job ID: 480-77902-1

Metals (Continued)

Prep Batch: 236601 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSSRM 480-236601/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 480-236601/1-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 236693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-77902-1	CHF-1	Total/NA	Solid	7471B	236601
480-77902-1 MS	CHF-1	Total/NA	Solid	7471B	236601
480-77902-1 MSD	CHF-1	Total/NA	Solid	7471B	236601
480-77902-2	CHF-2	Total/NA	Solid	7471B	236601
480-77902-3	CHF-3	Total/NA	Solid	7471B	236601
480-77902-4	CHF-4	Total/NA	Solid	7471B	236601
480-77902-5	CHF-5	Total/NA	Solid	7471B	236601
480-77902-16	CRS-1	Total/NA	Solid	7471B	236601
LCSSRM 480-236601/2-A	Lab Control Sample	Total/NA	Solid	7471B	236601
MB 480-236601/1-A	Method Blank	Total/NA	Solid	7471B	236601

General Chemistry

Analysis Batch: 234763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-77902-1	CHF-1	Total/NA	Solid	Moisture	
480-77902-2	CHF-2	Total/NA	Solid	Moisture	
480-77902-3	CHF-3	Total/NA	Solid	Moisture	
480-77902-4	CHF-4	Total/NA	Solid	Moisture	
480-77902-5	CHF-5	Total/NA	Solid	Moisture	
480-77902-16	CRS-1	Total/NA	Solid	Moisture	

Analysis Batch: 234883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-77902-6	CHF-1A	Total/NA	Solid	Moisture	
480-77902-7	CHF-1B	Total/NA	Solid	Moisture	
480-77902-8	CHF-2A	Total/NA	Solid	Moisture	
480-77902-9	CHF-2B	Total/NA	Solid	Moisture	
480-77902-10	CHF-3A	Total/NA	Solid	Moisture	
480-77902-11	CHF-3B	Total/NA	Solid	Moisture	
480-77902-12	CHF-4A	Total/NA	Solid	Moisture	
480-77902-13	CHF-4B	Total/NA	Solid	Moisture	
480-77902-14	CHF-5A	Total/NA	Solid	Moisture	
480-77902-15	CHF-5B	Total/NA	Solid	Moisture	

Prep Batch: 235507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-77902-2	CHF-2	Total/NA	Solid	9012B	
480-77902-3	CHF-3	Total/NA	Solid	9012B	
480-77902-3 DU	CHF-3	Total/NA	Solid	9012B	
480-77902-4	CHF-4	Total/NA	Solid	9012B	
480-77902-5	CHF-5	Total/NA	Solid	9012B	
480-77902-16	CRS-1	Total/NA	Solid	9012B	
LCS 480-235507/2-A ^5	Lab Control Sample	Total/NA	Solid	9012B	
MB 480-235507/1-A	Method Blank	Total/NA	Solid	9012B	

TestAmerica Buffalo

QC Association Summary

Client: Iyer Environmental Group, LLC
 Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

General Chemistry (Continued)

Analysis Batch: 235618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-77902-2	CHF-2	Total/NA	Solid	9012B	235507
480-77902-3	CHF-3	Total/NA	Solid	9012B	235507
480-77902-3 DU	CHF-3	Total/NA	Solid	9012B	235507
480-77902-4	CHF-4	Total/NA	Solid	9012B	235507
480-77902-5	CHF-5	Total/NA	Solid	9012B	235507
480-77902-16	CRS-1	Total/NA	Solid	9012B	235507
LCS 480-235507/2-A ^5	Lab Control Sample	Total/NA	Solid	9012B	235507
MB 480-235507/1-A	Method Blank	Total/NA	Solid	9012B	235507

Prep Batch: 236126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-77902-1	CHF-1	Total/NA	Solid	9012B	
LCS 480-236126/2-A ^5	Lab Control Sample	Total/NA	Solid	9012B	
MB 480-236126/1-A	Method Blank	Total/NA	Solid	9012B	

Analysis Batch: 236347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-77902-1	CHF-1	Total/NA	Solid	9012B	236126
LCS 480-236126/2-A ^5	Lab Control Sample	Total/NA	Solid	9012B	236126
MB 480-236126/1-A	Method Blank	Total/NA	Solid	9012B	236126



Lab Chronicle

Client: Iyer Environmental Group, LLC
 Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-1

Date Collected: 04/07/15 00:00

Date Received: 04/07/15 15:40

Lab Sample ID: 480-77902-1

Matrix: Solid

Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			86757	04/13/15 08:37	NJS	TAL BUR
Total/NA	Analysis	8270D		1	86803	04/14/15 10:14	DJB	TAL BUR
Total/NA	Prep	3550C			235202	04/09/15 16:11	CPH	TAL BUF
Total/NA	Analysis	8081B		1	235402	04/10/15 14:50	MAN	TAL BUF
Total/NA	Prep	3550C			235225	04/09/15 17:30	CPH	TAL BUF
Total/NA	Analysis	8082A		1	235425	04/10/15 14:45	KS	TAL BUF
Total/NA	Prep	8151A			234732	04/08/15 11:35	MRB	TAL BUF
Total/NA	Analysis	8151A		1	236680	04/17/15 05:22	JRL	TAL BUF
Total/NA	Prep	3050B			235162	04/09/15 15:30	TAS	TAL BUF
Total/NA	Analysis	6010C		1	235726	04/11/15 18:06	SLB	TAL BUF
Total/NA	Prep	3050B			235162	04/09/15 15:30	TAS	TAL BUF
Total/NA	Analysis	6010C		1	235545	04/10/15 21:24	TRB	TAL BUF
Total/NA	Prep	7471B			236601	04/16/15 14:35	LRK	TAL BUF
Total/NA	Analysis	7471B		1	236693	04/16/15 15:44	LRK	TAL BUF
Total/NA	Prep	9012B			236126	04/14/15 15:30	EKB	TAL BUF
Total/NA	Analysis	9012B		1	236347	04/15/15 13:16	KC	TAL BUF
Total/NA	Analysis	Moisture		1	234763	04/08/15 08:12	CSW	TAL BUF

Client Sample ID: CHF-2

Date Collected: 04/07/15 00:00

Date Received: 04/07/15 15:40

Lab Sample ID: 480-77902-2

Matrix: Solid

Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			86757	04/13/15 08:37	NJS	TAL BUR
Total/NA	Analysis	8270D		1	86803	04/14/15 12:19	DJB	TAL BUR
Total/NA	Prep	3550C			235202	04/09/15 16:11	CPH	TAL BUF
Total/NA	Analysis	8081B		1	235402	04/10/15 15:07	MAN	TAL BUF
Total/NA	Prep	3550C			235225	04/09/15 17:30	CPH	TAL BUF
Total/NA	Analysis	8082A		1	235425	04/10/15 15:17	KS	TAL BUF
Total/NA	Prep	8151A			234732	04/08/15 11:35	MRB	TAL BUF
Total/NA	Analysis	8151A		1	236680	04/17/15 05:51	JRL	TAL BUF
Total/NA	Prep	3050B			235162	04/09/15 15:30	TAS	TAL BUF
Total/NA	Analysis	6010C		1	235726	04/11/15 18:20	SLB	TAL BUF
Total/NA	Prep	3050B			235162	04/09/15 15:30	TAS	TAL BUF
Total/NA	Analysis	6010C		1	235545	04/10/15 21:38	TRB	TAL BUF
Total/NA	Prep	7471B			236601	04/16/15 14:35	LRK	TAL BUF
Total/NA	Analysis	7471B		1	236693	04/16/15 15:51	LRK	TAL BUF
Total/NA	Prep	9012B			235507	04/10/15 15:51	EKB	TAL BUF
Total/NA	Analysis	9012B		1	235618	04/11/15 11:02	KC	TAL BUF
Total/NA	Analysis	Moisture		1	234763	04/08/15 08:12	CSW	TAL BUF

Lab Chronicle

Client: Iyer Environmental Group, LLC
 Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-3

Lab Sample ID: 480-77902-3

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			86757	04/13/15 08:37	NJS	TAL BUR
Total/NA	Analysis	8270D		1	86803	04/14/15 13:01	DJB	TAL BUR
Total/NA	Prep	3550C			235202	04/09/15 16:11	CPH	TAL BUF
Total/NA	Analysis	8081B		1	235402	04/10/15 15:25	MAN	TAL BUF
Total/NA	Prep	3550C			235225	04/09/15 17:30	CPH	TAL BUF
Total/NA	Analysis	8082A		1	235425	04/10/15 15:33	KS	TAL BUF
Total/NA	Prep	8151A			234732	04/08/15 11:35	MRB	TAL BUF
Total/NA	Analysis	8151A		1	236680	04/17/15 06:21	JRL	TAL BUF
Total/NA	Prep	3050B			235162	04/09/15 15:30	TAS	TAL BUF
Total/NA	Analysis	6010C		1	235726	04/11/15 18:23	SLB	TAL BUF
Total/NA	Prep	3050B			235162	04/09/15 15:30	TAS	TAL BUF
Total/NA	Analysis	6010C		1	235545	04/10/15 21:41	TRB	TAL BUF
Total/NA	Prep	7471B			236601	04/16/15 14:35	LRK	TAL BUF
Total/NA	Analysis	7471B		1	236693	04/16/15 15:53	LRK	TAL BUF
Total/NA	Prep	9012B			235507	04/10/15 15:51	EKB	TAL BUF
Total/NA	Analysis	9012B		1	235618	04/11/15 11:03	KC	TAL BUF
Total/NA	Analysis	Moisture		1	234763	04/08/15 08:12	CSW	TAL BUF

Client Sample ID: CHF-4

Lab Sample ID: 480-77902-4

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			86757	04/13/15 08:37	NJS	TAL BUR
Total/NA	Analysis	8270D		1	86803	04/14/15 13:42	DJB	TAL BUR
Total/NA	Prep	3550C			235202	04/09/15 16:11	CPH	TAL BUF
Total/NA	Analysis	8081B		1	235402	04/10/15 15:43	MAN	TAL BUF
Total/NA	Prep	3550C			235225	04/09/15 17:30	CPH	TAL BUF
Total/NA	Analysis	8082A		1	235425	04/10/15 15:49	KS	TAL BUF
Total/NA	Prep	8151A			234732	04/08/15 11:35	MRB	TAL BUF
Total/NA	Analysis	8151A		1	236680	04/17/15 06:50	JRL	TAL BUF
Total/NA	Prep	3050B			235162	04/09/15 15:30	TAS	TAL BUF
Total/NA	Analysis	6010C		1	235726	04/11/15 18:34	SLB	TAL BUF
Total/NA	Prep	3050B			235162	04/09/15 15:30	TAS	TAL BUF
Total/NA	Analysis	6010C		1	235545	04/10/15 21:52	TRB	TAL BUF
Total/NA	Prep	7471B			236601	04/16/15 14:35	LRK	TAL BUF
Total/NA	Analysis	7471B		1	236693	04/16/15 15:55	LRK	TAL BUF
Total/NA	Prep	9012B			235507	04/10/15 15:51	EKB	TAL BUF
Total/NA	Analysis	9012B		1	235618	04/11/15 11:06	KC	TAL BUF
Total/NA	Analysis	Moisture		1	234763	04/08/15 08:12	CSW	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-5

Date Collected: 04/07/15 00:00

Date Received: 04/07/15 15:40

Lab Sample ID: 480-77902-5

Matrix: Solid

Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			86757	04/13/15 08:37	NJS	TAL BUR
Total/NA	Analysis	8270D		1	86803	04/14/15 14:24	DJB	TAL BUR
Total/NA	Prep	3550C			235202	04/09/15 16:11	CPH	TAL BUF
Total/NA	Analysis	8081B		1	235402	04/10/15 16:01	MAN	TAL BUF
Total/NA	Prep	3550C			235225	04/09/15 17:30	CPH	TAL BUF
Total/NA	Analysis	8082A		1	235425	04/10/15 16:04	KS	TAL BUF
Total/NA	Prep	8151A			234732	04/08/15 11:35	MRB	TAL BUF
Total/NA	Analysis	8151A		1	236680	04/17/15 07:20	JRL	TAL BUF
Total/NA	Prep	3050B			235162	04/09/15 15:30	TAS	TAL BUF
Total/NA	Analysis	6010C		1	235726	04/11/15 18:37	SLB	TAL BUF
Total/NA	Prep	3050B			235162	04/09/15 15:30	TAS	TAL BUF
Total/NA	Analysis	6010C		1	235545	04/10/15 21:54	TRB	TAL BUF
Total/NA	Prep	7471B			236601	04/16/15 14:35	LRK	TAL BUF
Total/NA	Analysis	7471B		1	236693	04/16/15 15:56	LRK	TAL BUF
Total/NA	Prep	9012B			235507	04/10/15 15:51	EKB	TAL BUF
Total/NA	Analysis	9012B		1	235618	04/11/15 11:08	KC	TAL BUF
Total/NA	Analysis	Moisture		1	234763	04/08/15 08:12	CSW	TAL BUF

Client Sample ID: CHF-1A

Date Collected: 04/07/15 00:00

Date Received: 04/07/15 15:40

Lab Sample ID: 480-77902-6

Matrix: Solid

Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			234791	04/08/15 11:20	RAS	TAL BUF
Total/NA	Analysis	8260C		1	234784	04/08/15 18:07	CDC	TAL BUF
Total/NA	Analysis	Moisture		1	234883	04/08/15 14:40	RAS	TAL BUF

Client Sample ID: CHF-1B

Date Collected: 04/07/15 00:00

Date Received: 04/07/15 15:40

Lab Sample ID: 480-77902-7

Matrix: Solid

Percent Solids: 93.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			234791	04/08/15 11:20	RAS	TAL BUF
Total/NA	Analysis	8260C		1	234784	04/08/15 18:33	CDC	TAL BUF
Total/NA	Analysis	Moisture		1	234883	04/08/15 14:40	RAS	TAL BUF

Client Sample ID: CHF-2A

Date Collected: 04/07/15 00:00

Date Received: 04/07/15 15:40

Lab Sample ID: 480-77902-8

Matrix: Solid

Percent Solids: 93.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			234791	04/08/15 11:20	RAS	TAL BUF
Total/NA	Analysis	8260C		1	234784	04/08/15 18:59	CDC	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Iyer Environmental Group, LLC
 Project/Site: 132 Dings

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-2A

Date Collected: 04/07/15 00:00

Date Received: 04/07/15 15:40

Lab Sample ID: 480-77902-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	234883	04/08/15 14:40	RAS	TAL BUF

Client Sample ID: CHF-2B

Date Collected: 04/07/15 00:00

Date Received: 04/07/15 15:40

Lab Sample ID: 480-77902-9

Matrix: Solid

Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			234791	04/08/15 11:20	RAS	TAL BUF
Total/NA	Analysis	8260C		1	234784	04/08/15 19:25	CDC	TAL BUF
Total/NA	Analysis	Moisture		1	234883	04/08/15 14:40	RAS	TAL BUF

Client Sample ID: CHF-3A

Date Collected: 04/07/15 00:00

Date Received: 04/07/15 15:40

Lab Sample ID: 480-77902-10

Matrix: Solid

Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			234791	04/08/15 11:20	RAS	TAL BUF
Total/NA	Analysis	8260C		1	234784	04/08/15 19:51	CDC	TAL BUF
Total/NA	Analysis	Moisture		1	234883	04/08/15 14:40	RAS	TAL BUF

Client Sample ID: CHF-3B

Date Collected: 04/07/15 00:00

Date Received: 04/07/15 15:40

Lab Sample ID: 480-77902-11

Matrix: Solid

Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			234791	04/08/15 11:20	RAS	TAL BUF
Total/NA	Analysis	8260C		1	234974	04/09/15 01:21	RAS	TAL BUF
Total/NA	Analysis	Moisture		1	234883	04/08/15 14:40	RAS	TAL BUF

Client Sample ID: CHF-4A

Date Collected: 04/07/15 00:00

Date Received: 04/07/15 15:40

Lab Sample ID: 480-77902-12

Matrix: Solid

Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			234791	04/08/15 11:20	RAS	TAL BUF
Total/NA	Analysis	8260C		1	234974	04/09/15 01:47	RAS	TAL BUF
Total/NA	Analysis	Moisture		1	234883	04/08/15 14:40	RAS	TAL BUF

Lab Chronicle

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CHF-4B

Lab Sample ID: 480-77902-13

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			234791	04/08/15 11:20	RAS	TAL BUF
Total/NA	Analysis	8260C		1	234974	04/09/15 02:13	RAS	TAL BUF
Total/NA	Analysis	Moisture		1	234883	04/08/15 14:40	RAS	TAL BUF

Client Sample ID: CHF-5A

Lab Sample ID: 480-77902-14

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			234791	04/08/15 11:20	RAS	TAL BUF
Total/NA	Analysis	8260C		1	234974	04/09/15 02:39	RAS	TAL BUF
Total/NA	Analysis	Moisture		1	234883	04/08/15 14:40	RAS	TAL BUF

Client Sample ID: CHF-5B

Lab Sample ID: 480-77902-15

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			234987	04/08/15 23:10	CDC	TAL BUF
Total/NA	Analysis	8260C		1	234974	04/09/15 03:05	RAS	TAL BUF
Total/NA	Analysis	Moisture		1	234883	04/08/15 14:40	RAS	TAL BUF

Client Sample ID: CRS-1

Lab Sample ID: 480-77902-16

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 98.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			234987	04/08/15 23:10	CDC	TAL BUF
Total/NA	Analysis	8260C		1	234974	04/09/15 03:30	RAS	TAL BUF
Total/NA	Prep	3550C			86757	04/13/15 08:37	NJS	TAL BUR
Total/NA	Analysis	8270D		1	86803	04/14/15 15:06	DJB	TAL BUR
Total/NA	Prep	3550C			235202	04/09/15 16:11	CPH	TAL BUF
Total/NA	Analysis	8081B		1	235402	04/10/15 16:19	MAN	TAL BUF
Total/NA	Prep	3550C			235225	04/09/15 17:30	CPH	TAL BUF
Total/NA	Analysis	8082A		1	235425	04/10/15 16:52	KS	TAL BUF
Total/NA	Prep	8151A			234732	04/08/15 11:38	MRB	TAL BUF
Total/NA	Analysis	8151A		1	236680	04/17/15 07:49	JRL	TAL BUF
Total/NA	Prep	3050B			235162	04/09/15 15:30	TAS	TAL BUF
Total/NA	Analysis	6010C		1	235726	04/11/15 18:39	SLB	TAL BUF
Total/NA	Prep	3050B			235162	04/09/15 15:30	TAS	TAL BUF
Total/NA	Analysis	6010C		5	235835	04/13/15 11:34	LMH	TAL BUF
Total/NA	Prep	3050B			235162	04/09/15 15:30	TAS	TAL BUF
Total/NA	Analysis	6010C		1	235545	04/10/15 21:57	TRB	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Client Sample ID: CRS-1

Lab Sample ID: 480-77902-16

Date Collected: 04/07/15 00:00

Matrix: Solid

Date Received: 04/07/15 15:40

Percent Solids: 98.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			236601	04/16/15 14:35	LRK	TAL BUF
Total/NA	Analysis	7471B		1	236693	04/16/15 16:02	LRK	TAL BUF
Total/NA	Prep	9012B			235507	04/10/15 15:51	EKB	TAL BUF
Total/NA	Analysis	9012B		1	235618	04/11/15 11:09	KC	TAL BUF
Total/NA	Analysis	Moisture		1	234763	04/08/15 08:12	CSW	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990



Certification Summary

Client: Iyer Environmental Group, LLC
 Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-15
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-16
Florida	NELAP	4	E87467	06-30-15
L-A-B	DoD ELAP		L2336	02-26-17
Maine	State Program	1	VT00008	04-17-17
Minnesota	NELAP	5	050-999-436	12-31-15
New Hampshire	NELAP	1	2006	12-18-15
New Jersey	NELAP	2	VT972	06-30-15
New York	NELAP	2	10391	03-31-16
Pennsylvania	NELAP	3	68-00489	04-30-15 *
Rhode Island	State Program	1	LAO00298	12-30-15
US Fish & Wildlife	Federal		LE-058448-0	02-28-16
USDA	Federal		P330-11-00093	10-28-16
Vermont	State Program	1	VT-4000	12-31-15
Virginia	NELAP	3	460209	12-14-15

* Certification renewal pending - certification considered valid.

Method Summary

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUR
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151A	Herbicides (GC)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingens

TestAmerica Job ID: 480-77902-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-77902-1	CHF-1	Solid	04/07/15 00:00	04/07/15 15:40
480-77902-2	CHF-2	Solid	04/07/15 00:00	04/07/15 15:40
480-77902-3	CHF-3	Solid	04/07/15 00:00	04/07/15 15:40
480-77902-4	CHF-4	Solid	04/07/15 00:00	04/07/15 15:40
480-77902-5	CHF-5	Solid	04/07/15 00:00	04/07/15 15:40
480-77902-6	CHF-1A	Solid	04/07/15 00:00	04/07/15 15:40
480-77902-7	CHF-1B	Solid	04/07/15 00:00	04/07/15 15:40
480-77902-8	CHF-2A	Solid	04/07/15 00:00	04/07/15 15:40
480-77902-9	CHF-2B	Solid	04/07/15 00:00	04/07/15 15:40
480-77902-10	CHF-3A	Solid	04/07/15 00:00	04/07/15 15:40
480-77902-11	CHF-3B	Solid	04/07/15 00:00	04/07/15 15:40
480-77902-12	CHF-4A	Solid	04/07/15 00:00	04/07/15 15:40
480-77902-13	CHF-4B	Solid	04/07/15 00:00	04/07/15 15:40
480-77902-14	CHF-5A	Solid	04/07/15 00:00	04/07/15 15:40
480-77902-15	CHF-5B	Solid	04/07/15 00:00	04/07/15 15:40
480-77902-16	CRS-1	Solid	04/07/15 00:00	04/07/15 15:40

Detection Limit Exceptions Summary

Client: Iyer Environmental Group, LLC
Project/Site: 132 Dingsen

TestAmerica Job ID: 480-77902-1

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Matrix	Analyte	Units	Client RL	Lab PQL
6010C	Solid	Silver	mg/Kg	0.50	0.6

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING


Temperature on Receipt _____

Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1007)

Client Iyer Environmental Group		Project Manager Dharma Iyer		Date Apr 7, 2015	Chain of Custody Number 264466
Address 44 Rolling Hills Dr Orchard Park, NY 14127		Telephone Number (Area Code)/Fax Number (716) 662-4157 / (716) 662-2118		Page 1 of 2	
City Orchard Park, NY		Site Contact R. Allen		Analysis (Attach list if more space is needed)	
Project Name and Location (State) 132 Dingenot St., Buffalo, NY		Lab Contact M. Deyo		Special Instructions/ Qualifications of Receipt all per-10 parameters	
Contract/Purchase Order/Quote No.		Containers & Preservatives			
Sample I.D. No. and Description (Containers for each sample may be combined on one line)		Matrix		TCL VOCs	
CHF-1	4/7/15	Air	Unpres.	✓	✓
CHF-2	4/7/15	Aqueous	H2SO4	✓	✓
CHF-3	4/7/15	Soil	HNO3	✓	✓
CHF-4		Sed.	HCl	✓	✓
CHF-5		Soil	NaOH	✓	✓
CHF-1A			ZnAc/NaOH	✓	✓
CHF-1B				✓	✓
CHF-2A				✓	✓
CHF-2B				✓	✓
CHF-3A				✓	✓
CHF-3B				✓	✓



480-77902 Chain of Custody

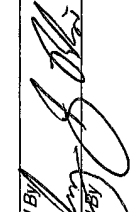
(A fee may be assessed if samples are retained longer than 1 month)

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown
 Turn Around Time Required
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other

Sample Disposal
 Return To Client Disposal By Lab Archive For _____ Months

QC Requirements (Specify)

1. Relinquished By	Richard Allen Jr	Date	4/7/15	Time	1540
2. Relinquished By		Date		Time	
3. Relinquished By		Date		Time	

1. Received By:  Date: 4/7/15 Time: 1540
 2. Received By: TA BUFF Date: 4/7/15 Time: 1540
 3. Received By: _____ Date: _____ Time: _____

Comments: Temp 19.6 NO ICE #1

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____

Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1007)

Client: **Kyer Environmental Group** Date: **Apr 7, 2015** Chain of Custody Number: **264432**
 Address: **44 Rolling Hills Dr** Lab Number: **2** of **2**
 City: **Orchard Park** State: **NY** Zip Code: **14127** Project Manager: **Dharma Iyer**
 Telephone Number (Area Code)/Fax Number: **(716) 662-4157 / (716) 662-2118** Site Contact: **R. Allen** Lab Contact: **Mr. Deyo**

Project Name and Location (State): **132 Dugans St (NY)**
 Contract/Purchase Order/Quote No. _____
 Analysis (Attach list if more space is needed):
 TEL VOCs ✓
 TEL SVCS ✓
 PCBs/RES/HEBs ✓
 TAL MTS/Mer ✓
 Cyanide ✓
 Special Instructions/Conditions of Receipt: **DER-10 per 10 meters**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Matrix			Containers & Preservatives									
		Air	Aqueous	Sed	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
CHF-4A	4/7/15			✓		2								
CHF-4B	↘			✓		2								
CHF-5A	↘			✓		2								
CHF-5B				✓		2								
CRS-1	4/7/15					1								

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____
 Turn Around Time Required: _____
 Sample Disposal: Return To Client Disposal By Lab Archive For _____
 (A fee may be assessed if samples are retained longer than 1 month)
 GC Requirements (Specify):
 1. Relinquished By: **Richard C Allen Jr** Date: **4/7/15** Time: **1540**
 2. Relinquished By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____
 Received By: **[Signature]** Date: **4/15/15** Time: **1540**
 Received By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____
 Comments: **Temp 19.6 NO ICE #1**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



Login Sample Receipt Checklist

Client: Iyer Environmental Group, LLC

Job Number: 480-77902-1

Login Number: 77902

List Source: TestAmerica Buffalo

List Number: 1

Creator: Kolb, Chris M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	True	Yes: Received same day of collection.
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.	False	Refer to job narrative for details
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	Refer to job narrative for details
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	IYER ENV.
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Iyer Environmental Group, LLC

Job Number: 480-77902-1

Login Number: 77902

List Number: 2

Creator: Goodrich, Kenneth L

List Source: TestAmerica Burlington

List Creation: 04/10/15 01:03 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	234022
Sample custody seals, if present, are intact.	True	
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	3.0°C
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.	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.	True	
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	





C&S Companies

141 Elm Street
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October 14, 2014

Ms. Mickey Mariacher
Project Manager – JRO Children’s Hospital of Buffalo
Kaleida Health
Larkin Building, Suite 200
726 Exchange Street
Buffalo, New York 14210

Re: *Results of Initial Native Soil Sampling – Event #1*

Dear Ms. Mariacher:

C&S Engineers, Inc. (“C&S”) is assisting Kaleida Health in the management of excavated soils for the construction on the John R. Oishei Children’s Hospital (“JRO”). As part of that work, Kaleida Health has requested C&S to collect samples of the native soils that will be removed during the construction of JRO. Sampling is being conducted concurrent with the excavation of the fill that is present above the native soils. Sampling is being conducted in phases as the material is being exposed during construction. This letter presents the results of the first event of sampling.

Sample Event #1 – Process and Results.

On October 7, 2014, C&S performed the first soil sampling event related to re-use of native soils.

Soil were collected by hand 1-2 feet below the exposed native soils surface following the initial excavation in the northern end of the site. Figure 1 (dated October 10, 2014) shows the excavation area and the sample locations. Soils were collected and submitted to Alpha Analytical to be analyzed for the target compounds specified in NYSDEC DER-10, Table 5.4(e)10 and Appendix 5 (May 2010). Samples were labeled relative to their location from their nearest shoring panel number and collection depth (from grade), as follows:

Sample ID: S67-20’ [indicates sample was 20 ft perpendicular from soldier pile #S67]
12 [indicates sample was 12 ft from original grade]

Sample Results are summarized in Table 1 – Summary of Results from Event #1. The laboratory report is attachment to this letter.

The following is a summary of samples and analyses completed for the site;

Sample Event	Date	VOCs	SVOCs, Inorganics & PCBc/Pesticides
Event #1	10/07/14	10	10

Kaleida Health
October 14, 2014
Page 2

Additional sampling will occur for this initial exposure (lift) of native soils. Subsequent sampling events will occur during excavation of additional lifts of native soils as shoring is added and excavation depths increase.

Please contact me if you have any further questions.

Sincerely,

C&S ENGINEERS, INC.



Mark Colmerauer
Regional Environmental Service Manager

Attached: Lab Data of 10/7/2014 sample event



LEGEND

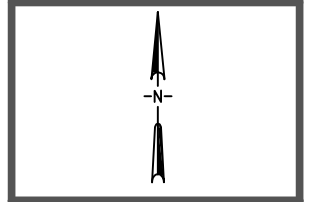
- Area of Excavated Soil (10/10/2014)
- Sample Locations (10/10/2014)

NOTES

- 1) Boundary survey from Foit-Albert Associates Part of Lot 9, Township 11, Range 8 of Holland Land Company Survey, County of Erie, State of New York, 9-12-2011.
- 2) Excavation ares obtained from Turner Construction Company "Working Surface Plan, 4-8-2013.



C&S Engineers, Inc.
 141 ELM ST, SUITE 100
 Buffalo, New York 14203
 Phone: 716-847-1630
 Fax: 716-847-1454
 www.cscos.com



**JOHN R. OISHEI
 CHILDREN HOSPITAL
 SOIL MANAGEMENT PLAN
 BUFFALO, NEW YORK**

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: K11.003.001		
DATE: OCT. 14, 2014		
DRAWN BY: C. MARTIN		
DESIGNED BY: C. MARTIN		
CHECKED BY: M. COLMERAUER		

OCTOBER 10, 2014
 SAMPLE
 LOCATIONS

FIGURE 1

TABLE 1 - SUMMARY OF RESULTS FROM SAMPLING EVENT #1

John R Oshie Childrens Hospital Constructon - Native Soil Assessment

"U" = Not Detected Above Detection Limit, "J" = Estimated Value

LOCATION			S67-20'	S62-20'	S62-50'	S54-20'	S49-20'	S45-20'	S41-10'	S38-25'	S34-20'	S31-20'											
SAMPLING DATE			10/7/2014	10/7/2014	10/7/2014	10/7/2014	10/7/2014	10/7/2014	10/7/2014	10/7/2014	10/7/2014	10/7/2014											
LAB SAMPLE ID			L1423690-01	L1423690-02	L1423690-03	L1423690-04	L1423690-05	L1423690-06	L1423690-07	L1423690-08	L1423690-09	L1423690-10											
SAMPLE TYPE	NYSDEC	NYSDEC	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO											
SAMPLE DEPTH (ft.)	Protect.	SCO	12	12	12	12	12	9	11	11	20	20											
	Ecology	UNRES. Use	Units	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual											
Chlorinated Herbicides by GC - Westborough Lab																							
2,4,5-TP (Silvex)			3.8 mg/kg	0.204	U	0.201	U	0.197	U	0.206	U	0.209	U	0.201	U	0.181	U	0.18	U	0.175	U	0.174	U
General Chemistry - Westborough Lab																							
Cyanide, Total			27 mg/kg	0.51	J	1.1	U	1.2	U	1.2	U	0.68	J	1.2	U	1.1	U	1.1	U	0.99	U	1	U
Chromium, Hexavalent	1		1 mg/kg	0.99	U	0.97	U	0.97	U	0.99	U	1	U	0.98	U	0.89	U	0.89	U	0.84	U	0.84	U
Organochlorine Pesticides by GC - Westborough Lab																							
Delta-BHC	0.04		0.04 mg/kg	0.0019	U	0.00191	U	0.00194	U	0.00194	U	0.00203	U	0.00195	U	0.00177	U	0.00167	U	0.00166	U	0.00159	U
Lindane	6		0.1 mg/kg	0.000792	U	0.000796	U	0.000808	U	0.000807	U	0.000846	U	0.000814	U	0.000739	U	0.000698	U	0.000692	U	0.000662	U
Alpha-BHC	0.04		0.02 mg/kg	0.000792	U	0.000796	U	0.000808	U	0.000807	U	0.000846	U	0.000814	U	0.000739	U	0.000698	U	0.000692	U	0.000662	U
Beta-BHC	0.6		0.036 mg/kg	0.0019	U	0.00191	U	0.00194	U	0.00194	U	0.00203	U	0.00195	U	0.00177	U	0.00167	U	0.00166	U	0.00159	U
Heptachlor	0.14		0.042 mg/kg	0.000951	U	0.000955	U	0.00097	U	0.000969	U	0.00101	U	0.000977	U	0.000886	U	0.000837	U	0.000831	U	0.000795	U
Aldrin	0.14		0.005 mg/kg	0.0019	U	0.00191	U	0.00194	U	0.00194	U	0.00203	U	0.00195	U	0.00177	U	0.00167	U	0.00166	U	0.00159	U
Heptachlor epoxide			mg/kg	0.00357	U	0.00358	U	0.00364	U	0.00363	U	0.0038	U	0.00366	U	0.00332	U	0.00314	U	0.00312	U	0.00298	U
Endrin	0.014		0.014 mg/kg	0.000792	U	0.000796	U	0.000808	U	0.000807	U	0.000846	U	0.000814	U	0.000739	U	0.000698	U	0.000692	U	0.000662	U
Endrin ketone			mg/kg	0.0019	U	0.00191	U	0.00194	U	0.00194	U	0.00203	U	0.00195	U	0.00177	U	0.00167	U	0.00166	U	0.00159	U
Dieldrin	0.006		0.005 mg/kg	0.00119	U	0.00119	U	0.00121	U	0.00121	U	0.00127	U	0.00122	U	0.00111	U	0.00105	U	0.00104	U	0.000993	U
4,4'-DDE	0.0033		0.0033 mg/kg	0.0019	U	0.00191	U	0.00194	U	0.00194	U	0.00203	U	0.00195	U	0.00177	U	0.00167	U	0.00166	U	0.00159	U
4,4'-DDD	0.0033		0.0033 mg/kg	0.0019	U	0.00191	U	0.00194	U	0.00194	U	0.00203	U	0.00195	U	0.00177	U	0.00167	U	0.00166	U	0.00159	U
4,4'-DDT	0.0033		0.0033 mg/kg	0.00357	U	0.00358	U	0.00364	U	0.00363	U	0.0038	U	0.00366	U	0.00332	U	0.00314	U	0.00312	U	0.00298	U
Endosulfan I			2.4 mg/kg	0.0019	U	0.00191	U	0.00194	U	0.00194	U	0.00203	U	0.00195	U	0.00177	U	0.00167	U	0.00166	U	0.00159	U
Endosulfan II			2.4 mg/kg	0.0019	U	0.00191	U	0.00194	U	0.00194	U	0.00203	U	0.00195	U	0.00177	U	0.00167	U	0.00166	U	0.00159	U
Endosulfan sulfate			2.4 mg/kg	0.000792	U	0.000796	U	0.000808	U	0.000807	U	0.000846	U	0.000814	U	0.000739	U	0.000698	U	0.000692	U	0.000662	U
Methoxychlor	1.2		mg/kg	0.00357	U	0.00358	U	0.00364	U	0.00363	U	0.0038	U	0.00366	U	0.00332	U	0.00314	U	0.00312	U	0.00298	U
Toxaphene			mg/kg	0.0357	U	0.0358	U	0.0364	U	0.0363	U	0.038	U	0.0366	U	0.0332	U	0.0314	U	0.0312	U	0.0298	U
cis-Chlordane	1.3		0.094 mg/kg	0.00238	U	0.00239	U	0.00242	U	0.00242	U	0.00254	U	0.00244	U	0.00222	U	0.00209	U	0.00208	U	0.00199	U
trans-Chlordane			mg/kg	0.00238	U	0.00239	U	0.00242	U	0.00242	U	0.00254	U	0.00244	U	0.00222	U	0.00209	U	0.00208	U	0.00199	U
Chlordane			mg/kg	0.0154	U	0.0155	U	0.0158	U	0.0157	U	0.0165	U	0.0159	U	0.0144	U	0.0136	U	0.0135	U	0.0129	U
Polychlorinated Biphenyls by GC - Westborough Lab																							
Aroclor 1016	1		0.1 mg/kg	0.0396	U	0.0401	U	0.0386	U	0.0398	U	0.0424	U	0.0388	U	0.0363	U	0.0368	U	0.0339	U	0.0341	U
Aroclor 1221	1		0.1 mg/kg	0.0396	U	0.0401	U	0.0386	U	0.0398	U	0.0424	U	0.0388	U	0.0363	U	0.0368	U	0.0339	U	0.0341	U
Aroclor 1232	1		0.1 mg/kg	0.0396	U	0.0401	U	0.0386	U	0.0398	U	0.0424	U	0.0388	U	0.0363	U	0.0368	U	0.0339	U	0.0341	U
Aroclor 1242	1		0.1 mg/kg	0.0396	U	0.0401	U	0.0386	U	0.0398	U	0.0424	U	0.0388	U	0.0363	U	0.0368	U	0.0339	U	0.0341	U
Aroclor 1248	1		0.1 mg/kg	0.0396	U	0.0401	U	0.0386	U	0.0398	U	0.0424	U	0.0388	U	0.0363	U	0.0368	U	0.0339	U	0.0341	U
Aroclor 1254	1		0.1 mg/kg	0.0396	U	0.0401	U	0.0386	U	0.0398	U	0.0933	U	0.0388	U	0.0363	U	0.0368	U	0.0339	U	0.0341	U
Aroclor 1260	1		0.1 mg/kg	0.0396	U	0.0401	U	0.0386	U	0.0398	U	0.0424	U	0.0388	U	0.0363	U	0.0368	U	0.0339	U	0.0341	U
Aroclor 1262	1		0.1 mg/kg	0.0396	U	0.0401	U	0.0386	U	0.0398	U	0.0424	U	0.0388	U	0.0363	U	0.0368	U	0.0339	U	0.0341	U
Aroclor 1268	1		0.1 mg/kg	0.0396	U	0.0401	U	0.0386	U	0.0398	U	0.0424	U	0.0388	U	0.0363	U	0.0368	U	0.0339	U	0.0341	U
PCBs, Total			mg/kg	0.0396	U	0.0401	U	0.0386	U	0.0398	U	0.0933	U	0.0388	U	0.0363	U	0.0368	U	0.0339	U	0.0341	U
Semivolatile Organics by GC/MS - Westborough Lab																							
Acenaphthene	20		20 mg/kg	0.16	U	0.16	U	0.16	U	0.16	U	0.17	U	0.16	U	0.15	U	0.15	U	0.14	U	0.14	U
Hexachlorobenzene			0.33 mg/kg	0.12	U	0.12	U	0.12	U	0.12	U	0.13	U	0.12	U	0.11	U	0.11	U	0.1	U	0.1	U
Bis(2-chloroethyl)ether			mg/kg	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.16	U	0.16	U	0.16	U	0.16	U
2-Chloronaphthalene			mg/kg	0.2	U	0.2	U	0.2	U	0.2	U	0.21	U	0.2	U	0.18	U	0.18	U	0.17	U	0.17	U
3,3'-Dichlorobenzidine			mg/kg	0.2	U	0.2	U	0.2	U	0.2	U	0.21	U	0.2	U	0.18	U	0.18	U	0.17	U	0.17	U
2,4-Dinitrotoluene			mg/kg	0.2	U	0.2	U	0.2	U	0.2	U	0.21	U	0.2	U	0.18	U	0.18	U	0.17	U	0.17	U
2,6-Dinitrotoluene			mg/kg	0.2	U	0.2	U	0.2	U	0.2	U	0.21	U	0.2	U	0.18	U	0.18	U	0.17	U	0.17	U

TABLE 1 - SUMMARY OF RESULTS FROM SAMPLING EVENT #1

John R Oshie Childrens Hospital Construcion - Native Soil Assessment

"U" = Not Detected Above Detection Limit, "J" = Estimated Value

LOCATION			S67-20'	S62-20'	S62-50'	S54-20'	S49-20'	S45-20'	S41-10'	S38-25'	S34-20'	S31-20'	
SAMPLING DATE			10/7/2014	10/7/2014	10/7/2014	10/7/2014	10/7/2014	10/7/2014	10/7/2014	10/7/2014	10/7/2014	10/7/2014	
LAB SAMPLE ID			L1423690-01	L1423690-02	L1423690-03	L1423690-04	L1423690-05	L1423690-06	L1423690-07	L1423690-08	L1423690-09	L1423690-10	
SAMPLE TYPE	NYSDEC	NYSDEC	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	
SAMPLE DEPTH (ft.)	Protect.	SCO	12	12	12	12	12	9	11	11	20	20	
	Ecology	UNRES. Use	Units	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	
Fluoranthene		100	mg/kg	0.12	U	0.12	U	0.12	U	0.11	U	0.1	U
4-Chlorophenyl phenyl ether			mg/kg	0.2	U	0.2	U	0.2	U	0.18	U	0.17	U
4-Bromophenyl phenyl ether			mg/kg	0.2	U	0.2	U	0.2	U	0.18	U	0.17	U
Bis(2-chloroisopropyl)ether			mg/kg	0.24	U	0.24	U	0.24	U	0.22	U	0.21	U
Bis(2-chloroethoxy)methane			mg/kg	0.22	U	0.22	U	0.22	U	0.2	U	0.19	U
Hexachlorobutadiene			mg/kg	0.2	U	0.2	U	0.2	U	0.18	U	0.17	U
Hexachlorocyclopentadiene	10		mg/kg	0.57	U	0.58	U	0.59	U	0.52	U	0.5	U
Hexachloroethane			mg/kg	0.16	U	0.16	U	0.16	U	0.15	U	0.14	U
Isophorone			mg/kg	0.18	U	0.18	U	0.18	U	0.16	U	0.16	U
Naphthalene		12	mg/kg	0.2	U	0.2	U	0.2	U	0.18	U	0.17	U
Nitrobenzene	40		mg/kg	0.18	U	0.18	U	0.18	U	0.16	U	0.16	U
NDPA/DPA	20		mg/kg	0.16	U	0.16	U	0.16	U	0.15	U	0.14	U
n-Nitrosodi-n-propylamine			mg/kg	0.2	U	0.2	U	0.2	U	0.18	U	0.17	U
Bis(2-ethylhexyl)phthalate	239		mg/kg	0.2	U	0.2	U	0.2	U	0.18	U	0.17	U
Butyl benzyl phthalate			mg/kg	0.2	U	0.2	U	0.2	U	0.18	U	0.17	U
Di-n-butylphthalate	0.014		mg/kg	0.2	U	0.2	U	0.2	U	0.18	U	0.17	U
Di-n-octylphthalate			mg/kg	0.2	U	0.2	U	0.2	U	0.18	U	0.17	U
Diethyl phthalate	100		mg/kg	0.2	U	0.2	U	0.2	U	0.18	U	0.17	U
Dimethyl phthalate	200		mg/kg	0.2	U	0.2	U	0.2	U	0.18	U	0.17	U
Benzo(a)anthracene		1	mg/kg	0.12	U	0.12	U	0.12	U	0.11	U	0.1	U
Benzo(a)pyrene	2.6		mg/kg	0.16	U	0.16	U	0.16	U	0.15	U	0.14	U
Benzo(b)fluoranthene		1	mg/kg	0.12	U	0.12	U	0.12	U	0.11	U	0.1	U
Benzo(k)fluoranthene		0.8	mg/kg	0.12	U	0.12	U	0.12	U	0.11	U	0.1	U
Chrysene		1	mg/kg	0.12	U	0.12	U	0.12	U	0.11	U	0.1	U
Acenaphthylene		100	mg/kg	0.16	U	0.16	U	0.16	U	0.15	U	0.14	U
Anthracene		100	mg/kg	0.12	U	0.12	U	0.12	U	0.11	U	0.1	U
Benzo(ghi)perylene		100	mg/kg	0.16	U	0.16	U	0.16	U	0.15	U	0.14	U
Fluorene	30		30 mg/kg	0.2	U	0.2	U	0.2	U	0.18	U	0.17	U
Phenanthrene		100	mg/kg	0.12	U	0.12	U	0.12	U	0.11	U	0.1	U
Dibenzo(a,h)anthracene		0.33	mg/kg	0.12	U	0.12	U	0.12	U	0.11	U	0.1	U
Indeno(1,2,3-cd)pyrene		0.5	mg/kg	0.16	U	0.16	U	0.16	U	0.15	U	0.14	U
Pyrene		100	mg/kg	0.12	U	0.12	U	0.12	U	0.11	U	0.1	U
Biphenyl	60		mg/kg	0.46	U	0.46	U	0.47	U	0.42	U	0.39	U
4-Chloroaniline			mg/kg	0.2	U	0.2	U	0.2	U	0.18	U	0.17	U
2-Nitroaniline			mg/kg	0.2	U	0.2	U	0.2	U	0.18	U	0.17	U
3-Nitroaniline			mg/kg	0.2	U	0.2	U	0.2	U	0.18	U	0.17	U
4-Nitroaniline			mg/kg	0.2	U	0.2	U	0.2	U	0.18	U	0.17	U
Dibenzofuran		7	mg/kg	0.2	U	0.2	U	0.2	U	0.18	U	0.17	U
2-Methylnaphthalene			mg/kg	0.24	U	0.24	U	0.24	U	0.22	U	0.21	U
1,2,4,5-Tetrachlorobenzene			mg/kg	0.2	U	0.2	U	0.2	U	0.18	U	0.17	U
Acetophenone			mg/kg	0.2	U	0.2	U	0.2	U	0.18	U	0.17	U
2,4,6-Trichlorophenol	10		mg/kg	0.12	U	0.12	U	0.12	U	0.11	U	0.1	U
p-Chloro-m-cresol			mg/kg	0.2	U	0.2	U	0.2	U	0.18	U	0.17	U
2-Chlorophenol	0.8		mg/kg	0.2	U	0.2	U	0.2	U	0.18	U	0.17	U
2,4-Dichlorophenol	20		mg/kg	0.18	U	0.18	U	0.18	U	0.16	U	0.16	U
2,4-Dimethylphenol			mg/kg	0.2	U	0.2	U	0.2	U	0.18	U	0.17	U

TABLE 1 - SUMMARY OF RESULTS FROM SAMPLING EVENT #1

John R Oshie Childrens Hospital Construcion - Native Soil Assessment

"U" = Not Detected Above Detection Limit, "J" = Estimated Value

LOCATION			S67-20'	S62-20'	S62-50'	S54-20'	S49-20'	S45-20'	S41-10'	S38-25'	S34-20'	S31-20'											
SAMPLING DATE			10/7/2014	10/7/2014	10/7/2014	10/7/2014	10/7/2014	10/7/2014	10/7/2014	10/7/2014	10/7/2014	10/7/2014											
LAB SAMPLE ID			L1423690-01	L1423690-02	L1423690-03	L1423690-04	L1423690-05	L1423690-06	L1423690-07	L1423690-08	L1423690-09	L1423690-10											
SAMPLE TYPE	NYSDEC	NYSDEC	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO											
SAMPLE DEPTH (ft.)	Protect.	SCO	12	12	12	12	12	9	11	11	20	20											
	Ecology	UNRES. Use	Units	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual											
2-Nitrophenol	7		mg/kg	0.43	U	0.43	U	0.43	U	0.44	U	0.37	U	0.37	U	0.4	U	0.26	U	0.24	U	0.24	U
4-Nitrophenol	7		mg/kg	0.28	U	0.28	U	0.28	U	0.29	U	0.28	U	0.28	U	0.26	U	0.26	U	0.24	U	0.24	U
2,4-Dinitrophenol	20		mg/kg	0.96	U	0.96	U	0.96	U	0.98	U	0.97	U	0.88	U	0.88	U	0.88	U	0.83	U	0.83	U
4,6-Dinitro-o-cresol			mg/kg	0.52	U	0.52	U	0.52	U	0.53	U	0.55	U	0.53	U	0.47	U	0.48	U	0.45	U	0.45	U
Pentachlorophenol	0.8	0.8	mg/kg	0.16	U	0.16	U	0.16	U	0.17	U	0.16	U	0.15	U	0.15	U	0.15	U	0.14	U	0.14	U
Phenol	30	0.33	mg/kg	0.2	U	0.2	U	0.2	U	0.21	U	0.2	U	0.18	U	0.18	U	0.18	U	0.17	U	0.17	U
2-Methylphenol		0.33	mg/kg	0.2	U	0.2	U	0.2	U	0.21	U	0.2	U	0.18	U	0.18	U	0.18	U	0.17	U	0.17	U
3-Methylphenol/4-Methylphenol		0.33	mg/kg	0.29	U	0.29	U	0.29	U	0.31	U	0.29	U	0.26	U	0.26	U	0.26	U	0.25	U	0.25	U
2,4,5-Trichlorophenol	4		mg/kg	0.2	U	0.2	U	0.2	U	0.21	U	0.2	U	0.18	U	0.18	U	0.18	U	0.17	U	0.17	U
Carbazole			mg/kg	0.2	U	0.2	U	0.2	U	0.21	U	0.2	U	0.18	U	0.18	U	0.18	U	0.17	U	0.17	U
Benzaldehyde			mg/kg	0.26	U	0.26	U	0.26	U	0.27	U	0.28	U	0.27	U	0.24	U	0.24	U	0.23	U	0.23	U
Caprolactam			mg/kg	0.2	U	0.2	U	0.2	U	0.21	U	0.2	U	0.18	U	0.18	U	0.18	U	0.17	U	0.17	U
Atrazine			mg/kg	0.16	U	0.16	U	0.16	U	0.17	U	0.16	U	0.15	U	0.15	U	0.15	U	0.14	U	0.14	U
2,3,4,6-Tetrachlorophenol			mg/kg	0.2	U	0.2	U	0.2	U	0.21	U	0.2	U	0.18	U	0.18	U	0.18	U	0.17	U	0.17	U
Total Metals - Westborough Lab																							
Arsenic, Total	13	13	mg/kg	1		1.2		0.94		1.8		1.1		0.82		0.7		0.95		1		1	
Barium, Total	433	350	mg/kg	6.5		6.9		13		24		12		10		5.5		7.4		15		15	
Beryllium, Total	10	7.2	mg/kg	0.07	J	0.09	J	0.17	J	0.08	J	0.18	J	0.1	J	0.09	J	0.08	J	0.09	J	0.09	J
Cadmium, Total	4	2.5	mg/kg	0.16	J	0.11	J	0.14	J	0.1	J	0.18	J	0.14	J	0.16	J	0.16	J	0.16	J	0.09	J
Chromium, Total			mg/kg	3.2		3.7		5.8		3.1		5.1		5.1		4.1		3		3.1		3.1	
Copper, Total	50	50	mg/kg	6.4		8.2		14		9.3		12		7		6.5		6.2		7.3		7.3	
Lead, Total	63	63	mg/kg	6.3		7		11		29		8		7.4		6.1		6.2		5.6		5.6	
Manganese, Total	1600	1600	mg/kg	240		260		280		200		250		410		230		250		190		190	
Mercury, Total	0.18	0.18	mg/kg	0.08	U	0.08	U	0.02	J	0.08	U	0.07	J	0.02	J	0.02	U	0.07	U	0.01	J	0.01	J
Nickel, Total	30	30	mg/kg	2.9		3.4		6.8		2.8		5		5.7		3.7		3.4		3.2		3.2	
Selenium, Total	3.9	3.9	mg/kg	0.2	J	0.95	U	0.94	U	0.93	U	1	U	0.97	U	0.84	U	0.88	U	0.16	J	0.82	U
Silver, Total	2	2	mg/kg	0.46	U	0.48	U	0.47	U	0.46	U	0.51	U	0.49	U	0.42	U	0.44	U	0.41	U	0.41	U
Zinc, Total	109	109	mg/kg	59		66		130		66		96		57		58		57		51		51	
Volatile Organics by 8260/5035 - Westborough Lab																							
Methylene chloride	12	0.05	mg/kg	0.011	U	0.01	U	0.011	U	0.01	U	0.01	U	0.0094	U	0.0096	U	0.0092	U	0.01	U	0.01	U
1,1-Dichloroethane		0.27	mg/kg	0.0016	U	0.0015	U	0.0016	U	0.0016	U	0.0016	U	0.0014	U	0.0014	U	0.0014	U	0.0015	U	0.0015	U
Chloroform	12	0.37	mg/kg	0.0016	U	0.0015	U	0.0016	U	0.0016	U	0.0016	U	0.0014	U	0.0014	U	0.0014	U	0.0015	U	0.0015	U
Carbon tetrachloride		0.76	mg/kg	0.0011	U	0.001	U	0.0011	U	0.001	U	0.001	U	0.00094	U	0.00096	U	0.00092	U	0.001	U	0.001	U
1,2-Dichloropropane	700		mg/kg	0.0038	U	0.0036	U	0.0037	U	0.0037	U	0.0037	U	0.0033	U	0.0033	U	0.0032	U	0.0035	U	0.0035	U
Dibromochloromethane	10		mg/kg	0.0011	U	0.001	U	0.0011	U	0.001	U	0.001	U	0.00094	U	0.00096	U	0.00092	U	0.001	U	0.001	U
1,1,2-Trichloroethane			mg/kg	0.0016	U	0.0015	U	0.0016	U	0.0016	U	0.0016	U	0.0014	U	0.0014	U	0.0014	U	0.0015	U	0.0015	U
Tetrachloroethene	2	1.3	mg/kg	0.0011	U	0.001	U	0.0011	U	0.001	U	0.001	U	0.00094	U	0.00096	U	0.00092	U	0.001	U	0.001	U
Chlorobenzene	40	1.1	mg/kg	0.0011	U	0.001	U	0.0011	U	0.001	U	0.001	U	0.00094	U	0.00096	U	0.00092	U	0.001	U	0.001	U
Trichlorofluoromethane			mg/kg	0.0054	U	0.0051	U	0.0053	U	0.0052	U	0.0053	U	0.0047	U	0.0048	U	0.0046	U	0.0051	U	0.005	U
1,2-Dichloroethane	10	0.02	mg/kg	0.0011	U	0.001	U	0.0011	U	0.001	U	0.001	U	0.00094	U	0.00096	U	0.00092	U	0.001	U	0.001	U
1,1,1-Trichloroethane		0.68	mg/kg	0.0011	U	0.001	U	0.0011	U	0.001	U	0.001	U	0.00094	U	0.00096	U	0.00092	U	0.001	U	0.001	U
Bromodichloromethane			mg/kg	0.0011	U	0.001	U	0.0011	U	0.001	U	0.001	U	0.00094	U	0.00096	U	0.00092	U	0.001	U	0.001	U
trans-1,3-Dichloropropene			mg/kg	0.0011	U	0.001	U	0.0011	U	0.001	U	0.001	U	0.00094	U	0.00096	U	0.00092	U	0.001	U	0.001	U
cis-1,3-Dichloropropene			mg/kg	0.0011	U	0.001	U	0.0011	U	0.001	U	0.001	U	0.00094	U	0.00096	U	0.00092	U	0.001	U	0.001	U
Bromoform			mg/kg	0.0043	U	0.0041	U	0.0042	U	0.0042	U	0.0042	U	0.0038	U	0.0038	U	0.0037	U	0.004	U	0.004	U
1,1,2,2-Tetrachloroethane	2	1,1,2,2	mg/kg	0.0011	U	0.001	U	0.0011	U	0.001	U	0.001	U	0.00094	U	0.00096	U	0.00092	U	0.001	U	0.001	U

TABLE 1 - SUMMARY OF RESULTS FROM SAMPLING EVENT #1
John R Oshie Childrens Hospital Constructon - Native Soil Assessment

"U" = Not Detected Above Detection Limit, "J" = Estimated Value

LOCATION			S67-20'	S62-20'	S62-50'	S54-20'	S49-20'	S45-20'	S41-10'	S38-25'	S34-20'	S31-20'	
SAMPLING DATE			10/7/2014	10/7/2014	10/7/2014	10/7/2014	10/7/2014	10/7/2014	10/7/2014	10/7/2014	10/7/2014	10/7/2014	
LAB SAMPLE ID			L1423690-01	L1423690-02	L1423690-03	L1423690-04	L1423690-05	L1423690-06	L1423690-07	L1423690-08	L1423690-09	L1423690-10	
SAMPLE TYPE	NYSDEC	NYSDEC	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	
SAMPLE DEPTH (ft.)	Protect.	SCO	12	12	12	12	12	9	11	11	20	20	
	Ecology	UNRES. Use	Units	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	
Benzene	70	0.06	mg/kg	0.0011	U	0.001	U	0.0011	U	0.001	U	0.001	U
Toluene	36	0.7	mg/kg	0.00053	J	0.00045	J	0.00063	J	0.00026	J	0.00024	J
Ethylbenzene		1	mg/kg	0.0011	U	0.001	U	0.0011	U	0.001	U	0.00094	U
Chloromethane			mg/kg	0.0054	U	0.0051	U	0.0053	U	0.0052	U	0.0053	U
Bromomethane			mg/kg	0.0022	U	0.002	U	0.0021	U	0.0021	U	0.0019	U
Vinyl chloride		0.02	mg/kg	0.0022	U	0.002	U	0.0021	U	0.0021	U	0.0019	U
Chloroethane			mg/kg	0.0022	U	0.002	U	0.0021	U	0.0021	U	0.0019	U
1,1-Dichloroethene		0.33	mg/kg	0.0011	U	0.001	U	0.0011	U	0.001	U	0.00094	U
trans-1,2-Dichloroethene		0.19	mg/kg	0.0016	U	0.0015	U	0.0016	U	0.0016	U	0.0014	U
Trichloroethene	2	0.47	mg/kg	0.0011	U	0.001	U	0.0011	U	0.001	U	0.00094	U
1,2-Dichlorobenzene		1.1	mg/kg	0.0054	U	0.0051	U	0.0053	U	0.0052	U	0.0053	U
1,3-Dichlorobenzene		2.4	mg/kg	0.0054	U	0.0051	U	0.0053	U	0.0052	U	0.0053	U
1,4-Dichlorobenzene	20	1.8	mg/kg	0.0054	U	0.0051	U	0.0053	U	0.0052	U	0.0053	U
Methyl tert butyl ether		0.93	mg/kg	0.0022	U	0.002	U	0.0021	U	0.0021	U	0.0019	U
p/m-Xylene			mg/kg	0.0022	U	0.002	U	0.0021	U	0.0021	U	0.0019	U
o-Xylene			mg/kg	0.0022	U	0.002	U	0.0021	U	0.0021	U	0.0019	U
cis-1,2-Dichloroethene		0.25	mg/kg	0.0011	U	0.001	U	0.0011	U	0.001	U	0.00094	U
Styrene	300		mg/kg	0.0022	U	0.002	U	0.0021	U	0.0021	U	0.0019	U
Dichlorodifluoromethane			mg/kg	0.011	U	0.01	U	0.011	U	0.01	U	0.0094	U
Acetone	2.2	0.05	mg/kg	0.0072	J	0.009	J	0.025	0.007	J	0.012	0.0061	J
Carbon disulfide			mg/kg	0.011	U	0.01	U	0.011	U	0.01	U	0.0094	U
2-Butanone	100	0.12	mg/kg	0.011	U	0.01	U	0.00085	J	0.01	U	0.01	U
4-Methyl-2-pentanone			mg/kg	0.011	U	0.01	U	0.011	U	0.01	U	0.01	U
2-Hexanone			mg/kg	0.011	U	0.01	U	0.011	U	0.01	U	0.01	U
Bromochloromethane			mg/kg	0.0054	U	0.0051	U	0.0053	U	0.0052	U	0.0053	U
1,2-Dibromoethane			mg/kg	0.0043	U	0.0041	U	0.0042	U	0.0042	U	0.0038	U
1,2-Dibromo-3-chloropropane			mg/kg	0.0054	U	0.0051	U	0.0053	U	0.0052	U	0.0053	U
Isopropylbenzene			mg/kg	0.0011	U	0.001	U	0.0011	U	0.001	U	0.00094	U
1,2,3-Trichlorobenzene	20		mg/kg	0.0054	U	0.0051	U	0.0053	U	0.0052	U	0.0053	U
1,2,4-Trichlorobenzene	20		mg/kg	0.0054	U	0.0051	U	0.0053	U	0.0052	U	0.0053	U
Methyl Acetate			mg/kg	0.018	J	0.013	J	0.011	J	0.0055	J	0.026	0.011
Cyclohexane			mg/kg	0.022	U	0.02	U	0.021	U	0.021	U	0.021	U
1,4-Dioxane	0.1	0.1	mg/kg	0.11	U	0.1	U	0.11	U	0.1	U	0.1	U
Freon-113			mg/kg	0.022	U	0.02	U	0.021	U	0.021	U	0.021	U
Methyl cyclohexane			mg/kg	0.0043	U	0.0041	U	0.00026	J	0.0042	U	0.0042	U



C&S Companies

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October 31, 2014

Ms. Mickey Mariacher
Project Manager – JRO Children’s Hospital of Buffalo
Kaleida Health
Larkin Building, Suite 200
726 Exchange Street
Buffalo, New York 14210

Re: Results of Initial Native Soil Sampling – Events #2 & #3

Dear Ms. Mariacher:

C&S Engineers, Inc. (“C&S”) is assisting Kaleida Health in the management of excavated soils for the construction on the John R. Oishei Children’s Hospital (“JRO”). As part of that work, Kaleida Health has requested C&S to collect samples of the native soils that will be removed during the construction of JRO. Sampling is being conducted concurrent with the excavation of the fill that is present above the native soils. Sampling is being conducted in phases as the material is being exposed during construction. This letter presents the results of the second and third events of sampling.

Sample Event #2 & 3 – Process and Results.

On October 10 and 14, 2014, C&S performed the additional soil sampling event related to re-use of native soils.

Soil were collected by hand 1-2 feet below the exposed native soils surface following the additional excavation in the western end of the site. Figure 1 (dated October 14, 2014) shows the excavation area and the sample locations. Soils were collected and submitted to Alpha Analytical to be analyzed for the target compounds specified in NYSDEC DER-10, Table 5.4(e)10 and Appendix 5 (May 2010).

Naming Convention

Samples were labeled relative to their location from their nearest column number and collection depth (from grade), as follows:

Sample ID:

J4-10’ [indicates sample was collected near Column J4 at 10 ft from grade]

Sample Results are summarized in Table 2 – Summary of Results from Event #2 and Table 3 – Summary of Results from Event #3. The laboratory reports are attached to this letter.

The following is a summary of samples and analyses completed for the site;

Sample Event	Date	VOCs	SVOCs, Inorganics & PCBs/Pesticides
Event #1	10/07/14	10	10
Event #2	10/10/14	--	1
Event #3	10/14/14	2	2
	TOTAL	12	13

Additional sampling will occur for this initial exposure (lift) of native soils. Subsequent sampling events will occur during excavation of additional lifts of native soils as shoring is added and excavation depths increase.

Please contact me if you have any further questions.

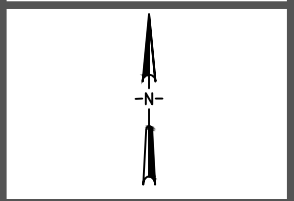
Sincerely,

C&S ENGINEERS, INC.



Mark Colmerauer
Regional Environmental Service Manager

Attached: Lab Data of 10/10/2014 and 10/14/14 sample events

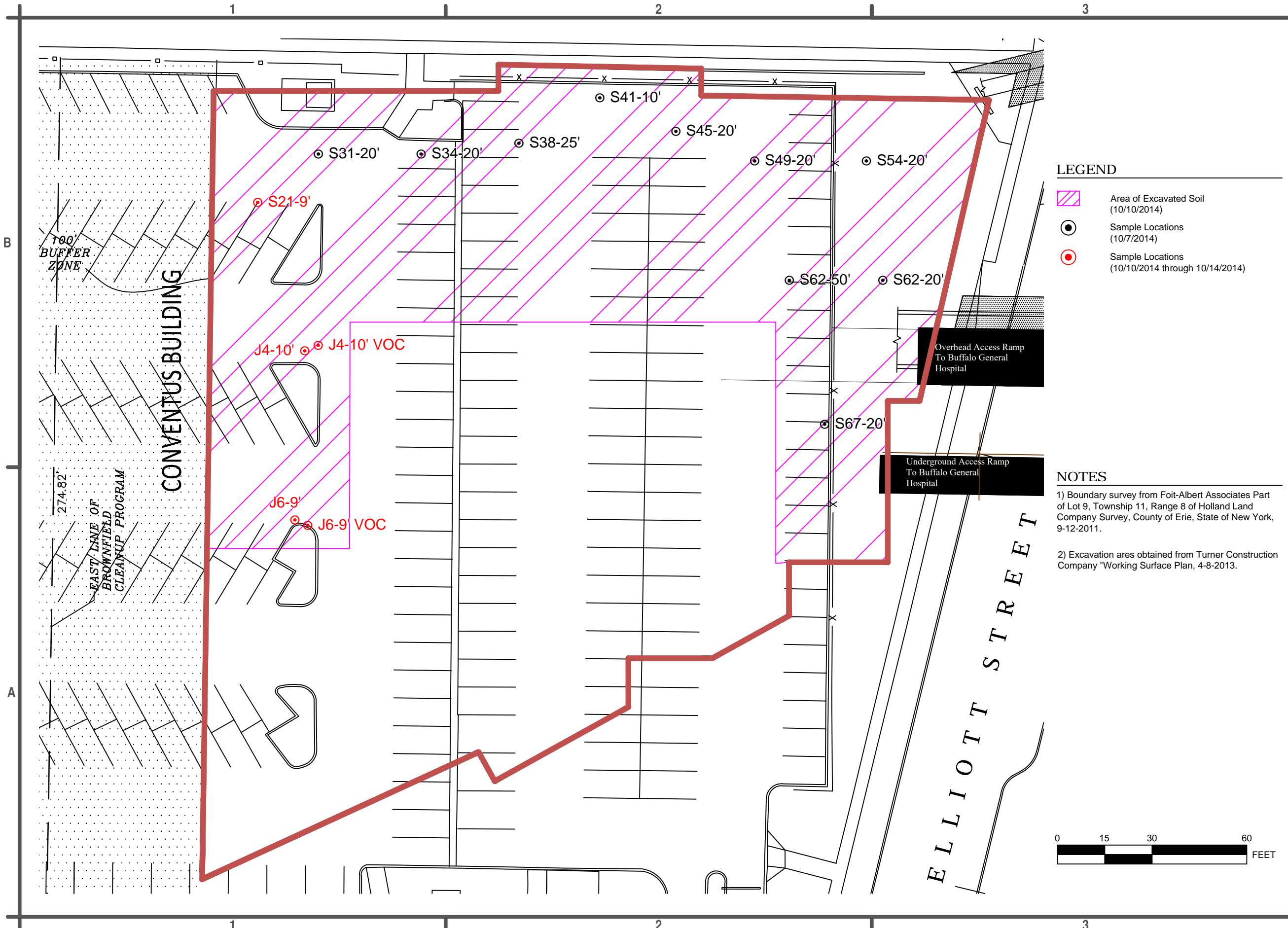


JOHN R. OISHEI
 CHILDREN HOSPITAL
 SOIL MANAGEMENT PLAN
 BUFFALO, NEW YORK

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: K11.003.001		
DATE: OCT. 24, 2014		
DRAWN BY: C. MARTIN		
DESIGNED BY: C. MARTIN		
CHECKED BY: M. COLMERAUER		

OCTOBER 14, 2014
 SAMPLE LOCATIONS

FIGURE 1



LEGEND

- Area of Excavated Soil (10/10/2014)
- Sample Locations (10/7/2014)
- Sample Locations (10/10/2014 through 10/14/2014)

NOTES

- 1) Boundary survey from Foit-Albert Associates Part of Lot 9, Township 11, Range 8 of Holland Land Company Survey, County of Erie, State of New York, 9-12-2011.
- 2) Excavation areas obtained from Turner Construction Company "Working Surface Plan, 4-8-2013.

TABLE 2 - SUMMARY OF RESULTS FROM SAMPLING EVENT #2
John R Oshie Childrens Hosptial Construciton - Native Soil Assessment

"U" = Not Detected Above Detection Limit, "J" = Estimated Value

LOCATION			S21-9'	
SAMPLING DATE			10/10/2014	
LAB SAMPLE ID			L1424182-01	
SAMPLE TYPE	NYSDEC	NYSDEC	SO	
SAMPLE DEPTH (ft.)	Protect.	SCO	9	
	Ecology	UNRES. Use Units		Qual
Chlorinated Herbicides by GC - Westborough Lab				
2,4,5-TP (Silvex)		3.8 mg/kg	0.17	U
General Chemistry - Westborough Lab				
Solids, Total		%	95.8	
Cyanide, Total		27 mg/kg	1	U
Chromium, Hexavalent	1	1 mg/kg	0.84	U
Organochlorine Pesticides by GC - Westborough Lab				
Delta-BHC	0.04	0.04 mg/kg	0.0016	U
Lindane	6	0.1 mg/kg	0.000666	U
Alpha-BHC	0.04	0.02 mg/kg	0.000666	U
Beta-BHC	0.6	0.036 mg/kg	0.0016	U
Heptachlor	0.14	0.042 mg/kg	0.000799	U
Aldrin	0.14	0.005 mg/kg	0.0016	U
Heptachlor epoxide		mg/kg	0.003	U
Endrin	0.014	0.014 mg/kg	0.000666	U
Endrin ketone		mg/kg	0.0016	U
Dieldrin	0.006	0.005 mg/kg	0.000998	U
4,4'-DDE	0.0033	0.0033 mg/kg	0.0016	U
4,4'-DDD	0.0033	0.0033 mg/kg	0.0016	U
4,4'-DDT	0.0033	0.0033 mg/kg	0.003	U
Endosulfan I		2.4 mg/kg	0.0016	U
Endosulfan II		2.4 mg/kg	0.0016	U
Endosulfan sulfate		2.4 mg/kg	0.000666	U
Methoxychlor	1.2	mg/kg	0.003	U
Toxaphene		mg/kg	0.03	U
cis-Chlordane	1.3	0.094 mg/kg	0.002	U
trans-Chlordane		mg/kg	0.002	U
Chlordane		mg/kg	0.013	U
Polychlorinated Biphenyls by GC - Westborough Lab				
Aroclor 1016	1	0.1 mg/kg	0.0326	U
Aroclor 1221	1	0.1 mg/kg	0.0326	U
Aroclor 1232	1	0.1 mg/kg	0.0326	U
Aroclor 1242	1	0.1 mg/kg	0.0326	U
Aroclor 1248	1	0.1 mg/kg	0.0326	U
Aroclor 1254	1	0.1 mg/kg	0.0326	U
Aroclor 1260	1	0.1 mg/kg	0.0326	U
Aroclor 1262	1	0.1 mg/kg	0.0326	U
Aroclor 1268	1	0.1 mg/kg	0.0326	U
PCBs, Total		mg/kg	0.0326	U

TABLE 2 - SUMMARY OF RESULTS FROM SAMPLING EVENT #2
John R Oshie Childrens Hosptial Construcion - Native Soil Assessment

"U" = Not Detected Above Detection Limit, "J" = Estimated Value

LOCATION			S21-9'	
SAMPLING DATE			10/10/2014	
LAB SAMPLE ID			L1424182-01	
SAMPLE TYPE	NYSDEC	NYSDEC	SO	
SAMPLE DEPTH (ft.)	Protect.	SCO	9	
	Ecology	UNRES. Use Units		Qual
Semivolatile Organics by GC/MS - Westborough Lab				
Acenaphthene	20	20 mg/kg	0.14	U
Hexachlorobenzene		0.33 mg/kg	0.1	U
Bis(2-chloroethyl)ether		mg/kg	0.15	U
2-Chloronaphthalene		mg/kg	0.17	U
3,3'-Dichlorobenzidine		mg/kg	0.17	U
2,4-Dinitrotoluene		mg/kg	0.17	U
2,6-Dinitrotoluene		mg/kg	0.17	U
Fluoranthene		100 mg/kg	0.1	U
4-Chlorophenyl phenyl ether		mg/kg	0.17	U
4-Bromophenyl phenyl ether		mg/kg	0.17	U
Bis(2-chloroisopropyl)ether		mg/kg	0.2	U
Bis(2-chloroethoxy)methane		mg/kg	0.18	U
Hexachlorobutadiene		mg/kg	0.17	U
Hexachlorocyclopentadiene	10	mg/kg	0.49	U
Hexachloroethane		mg/kg	0.14	U
Isophorone		mg/kg	0.15	U
Naphthalene		12 mg/kg	0.17	U
Nitrobenzene	40	mg/kg	0.15	U
NDPA/DPA	20	mg/kg	0.14	U
n-Nitrosodi-n-propylamine		mg/kg	0.17	U
Bis(2-ethylhexyl)phthalate	239	mg/kg	0.17	U
Butyl benzyl phthalate		mg/kg	0.17	U
Di-n-butylphthalate	0.014	mg/kg	0.17	U
Di-n-octylphthalate		mg/kg	0.17	U
Diethyl phthalate	100	mg/kg	0.17	U
Dimethyl phthalate	200	mg/kg	0.17	U
Benzo(a)anthracene		1 mg/kg	0.1	U
Benzo(a)pyrene	2.6	1 mg/kg	0.14	U
Benzo(b)fluoranthene		1 mg/kg	0.1	U
Benzo(k)fluoranthene		0.8 mg/kg	0.1	U
Chrysene		1 mg/kg	0.1	U
Acenaphthylene		100 mg/kg	0.14	U
Anthracene		100 mg/kg	0.1	U
Benzo(ghi)perylene		100 mg/kg	0.14	U
Fluorene	30	30 mg/kg	0.17	U
Phenanthrene		100 mg/kg	0.1	U
Dibenzo(a,h)anthracene		0.33 mg/kg	0.1	U
Indeno(1,2,3-cd)pyrene		0.5 mg/kg	0.14	U
Pyrene		100 mg/kg	0.1	U
Biphenyl	60	mg/kg	0.39	U
4-Chloroaniline		mg/kg	0.17	U
2-Nitroaniline		mg/kg	0.17	U
3-Nitroaniline		mg/kg	0.17	U
4-Nitroaniline		mg/kg	0.17	U
Dibenzofuran		7 mg/kg	0.17	U

TABLE 2 - SUMMARY OF RESULTS FROM SAMPLING EVENT #2
John R Oshie Childrens Hosptial Construciton - Native Soil Assessment

"U" = Not Detected Above Detection Limit, "J" = Estimated Value

LOCATION			S21-9'	
SAMPLING DATE			10/10/2014	
LAB SAMPLE ID			L1424182-01	
SAMPLE TYPE	NYSDEC	NYSDEC	SO	
SAMPLE DEPTH (ft.)	Protect.	SCO	9	
	Ecology	UNRES. Use	Units	Qual
2-Methylnaphthalene			mg/kg	0.2 U
1,2,4,5-Tetrachlorobenzene			mg/kg	0.17 U
Acetophenone			mg/kg	0.17 U
2,4,6-Trichlorophenol	10		mg/kg	0.1 U
p-Chloro-m-cresol			mg/kg	0.17 U
2-Chlorophenol	0.8		mg/kg	0.17 U
2,4-Dichlorophenol	20		mg/kg	0.15 U
2,4-Dimethylphenol			mg/kg	0.17 U
2-Nitrophenol	7		mg/kg	0.37 U
4-Nitrophenol	7		mg/kg	0.24 U
2,4-Dinitrophenol	20		mg/kg	0.81 U
4,6-Dinitro-o-cresol			mg/kg	0.44 U
Pentachlorophenol	0.8	0.8	mg/kg	0.14 U
Phenol	30	0.33	mg/kg	0.17 U
2-Methylphenol		0.33	mg/kg	0.17 U
3-Methylphenol/4-Methylphenol		0.33	mg/kg	0.24 U
2,4,5-Trichlorophenol	4		mg/kg	0.17 U
Carbazole			mg/kg	0.17 U
Benzaldehyde			mg/kg	0.22 U
Caprolactam			mg/kg	0.17 U
Atrazine			mg/kg	0.14 U
2,3,4,6-Tetrachlorophenol			mg/kg	0.17 U
Total Metals - Westborough Lab				
Arsenic, Total	13	13	mg/kg	0.41 U
Barium, Total	433	350	mg/kg	6
Beryllium, Total	10	7.2	mg/kg	0.07 J
Cadmium, Total	4	2.5	mg/kg	0.41 U
Chromium, Total			mg/kg	2.6
Copper, Total	50	50	mg/kg	6.2
Lead, Total	63	63	mg/kg	6
Manganese, Total	1600	1600	mg/kg	180
Mercury, Total	0.18	0.18	mg/kg	0.07 U
Nickel, Total	30	30	mg/kg	2.7
Selenium, Total	3.9	3.9	mg/kg	0.81 U
Silver, Total	2	2	mg/kg	0.41 U
Zinc, Total	109	109	mg/kg	61

TABLE 2 - SUMMARY OF RESULTS FROM SAMPLING EVENT #2
John R Oshie Childrens Hosptial Construcion - Native Soil Assessment

"U" = Not Detected Above Detection Limit, "J" = Estimated Value

LOCATION			S21-9'	
SAMPLING DATE			10/10/2014	
LAB SAMPLE ID			L1424182-01	
SAMPLE TYPE	NYSDEC	NYSDEC	SO	
SAMPLE DEPTH (ft.)	Protect.	SCO	9	
	Ecology	UNRES. Use Units		Qual
Volatile Organics by 8260/5035 - Westborough Lab				
Methylene chloride	12	0.05 mg/kg	0.01	U
1,1-Dichloroethane		0.27 mg/kg	0.0015	U
Chloroform	12	0.37 mg/kg	0.0015	U
Carbon tetrachloride		0.76 mg/kg	0.001	U
1,2-Dichloropropane	700	mg/kg	0.0036	U
Dibromochloromethane	10	mg/kg	0.001	U
1,1,2-Trichloroethane		mg/kg	0.0015	U
Tetrachloroethene	2	1.3 mg/kg	0.001	U
Chlorobenzene	40	1.1 mg/kg	0.001	U
Trichlorofluoromethane		mg/kg	0.0051	U
1,2-Dichloroethane	10	0.02 mg/kg	0.001	U
1,1,1-Trichloroethane		0.68 mg/kg	0.001	U
Bromodichloromethane		mg/kg	0.001	U
trans-1,3-Dichloropropene		mg/kg	0.001	U
cis-1,3-Dichloropropene		mg/kg	0.001	U
Bromoform		mg/kg	0.0041	U
1,1,2,2-Tetrachloroethane	2	mg/kg	0.001	U
Benzene	70	0.06 mg/kg	0.001	U
Toluene	36	0.7 mg/kg	0.0015	U
Ethylbenzene		1 mg/kg	0.001	U
Chloromethane		mg/kg	0.0051	U
Bromomethane		mg/kg	0.002	U
Vinyl chloride		0.02 mg/kg	0.002	U
Chloroethane		mg/kg	0.002	U
1,1-Dichloroethene		0.33 mg/kg	0.001	U
trans-1,2-Dichloroethene		0.19 mg/kg	0.0015	U
Trichloroethene	2	0.47 mg/kg	0.001	U
1,2-Dichlorobenzene		1.1 mg/kg	0.0051	U
1,3-Dichlorobenzene		2.4 mg/kg	0.0051	U
1,4-Dichlorobenzene	20	1.8 mg/kg	0.0051	U
Methyl tert butyl ether		0.93 mg/kg	0.002	U
p/m-Xylene		mg/kg	0.002	U
o-Xylene		mg/kg	0.002	U
cis-1,2-Dichloroethene		0.25 mg/kg	0.001	U
Styrene	300	mg/kg	0.002	U
Dichlorodifluoromethane		mg/kg	0.01	U
Acetone	2.2	0.05 mg/kg	0.0083	J
Carbon disulfide		mg/kg	0.01	U
2-Butanone	100	0.12 mg/kg	0.01	U
4-Methyl-2-pentanone		mg/kg	0.01	U
2-Hexanone		mg/kg	0.01	U
Bromochloromethane		mg/kg	0.0051	U
1,2-Dibromoethane		mg/kg	0.0041	U
1,2-Dibromo-3-chloropropane		mg/kg	0.0051	U
Isopropylbenzene		mg/kg	0.001	U

TABLE 2 - SUMMARY OF RESULTS FROM SAMPLING EVENT #2
John R Oshie Childrens Hosptial Construciton - Native Soil Assessment

"U" = Not Detected Above Detection Limit, "J" = Estimated Value

LOCATION			S21-9'		
SAMPLING DATE			10/10/2014		
LAB SAMPLE ID			L1424182-01		
SAMPLE TYPE	NYSDEC	NYSDEC	SO		
SAMPLE DEPTH (ft.)	Protect.	SCO	9		
	Ecology	UNRES. Use	Units	Qual	
1,2,3-Trichlorobenzene	20		mg/kg	0.0051	U
1,2,4-Trichlorobenzene	20		mg/kg	0.0051	U
Methyl Acetate			mg/kg	0.02	U
Cyclohexane			mg/kg	0.02	U
1,4-Dioxane	0.1	0.1	mg/kg	0.1	U
Freon-113			mg/kg	0.02	U
Methyl cyclohexane			mg/kg	0.0041	U

TABLE 3 - SUMMARY OF RESULTS FROM SAMPLING EVENT #3
John R Oshie Childrens Hospital Construcion - Native Soil Assessment

"U" = Not Detected Above Detection Limit, "J" = Estimated Value

LOCATION			J4-10'			J6-9'			J4-10'-VOC			J6-9'-VOC
SAMPLING DATE			10/14/2014			10/14/2014			10/14/2014			10/14/2014
LAB SAMPLE ID			L1424545-01			L1424545-02			L1424545-03			L1424545-04
SAMPLE TYPE	NYSDEC	NYSDEC	SO			SO			SO			SO
SAMPLE DEPTH (ft.)	Protect.	SCO	10	Qual	9	Qual	10	Qual	9	Qual		
	Ecology	UNRES. U Units										
Chlorinated Herbicides by GC - Westborough Lab												
2,4,5-TP (Silvex)		3.8 mg/kg	0.177	U	0.183	U	-	-	-	-	-	
General Chemistry - Westborough Lab												
Solids, Total		%	92.2		90.5		92.8		90.7			
Cyanide, Total		27 mg/kg	1	U	1	U	-	-	-	-		
Chromium, Hexavalent	1	1 mg/kg	0.87	U	0.88	U	-	-	-	-		
Organochlorine Pesticides by GC - Westborough Lab												
Delta-BHC	0.04	0.04 mg/kg	0.00169	U	0.00168	U	-	-	-	-		
Lindane	6	0.1 mg/kg	0.000704	U	0.0007	U	-	-	-	-		
Alpha-BHC	0.04	0.02 mg/kg	0.000704	U	0.0007	U	-	-	-	-		
Beta-BHC	0.6	0.036 mg/kg	0.00169	U	0.00168	U	-	-	-	-		
Heptachlor	0.14	0.042 mg/kg	0.000844	U	0.00084	U	-	-	-	-		
Aldrin	0.14	0.005 mg/kg	0.00169	U	0.00168	U	-	-	-	-		
Heptachlor epoxide		mg/kg	0.00317	U	0.00315	U	-	-	-	-		
Endrin	0.014	0.014 mg/kg	0.000704	U	0.0007	U	-	-	-	-		
Endrin ketone		mg/kg	0.00169	U	0.00168	U	-	-	-	-		
Dieldrin	0.006	0.005 mg/kg	0.00106	U	0.00105	U	-	-	-	-		
4,4'-DDE	0.0033	0.0033 mg/kg	0.00169	U	0.00168	U	-	-	-	-		
4,4'-DDD	0.0033	0.0033 mg/kg	0.00169	U	0.00168	U	-	-	-	-		
4,4'-DDT	0.0033	0.0033 mg/kg	0.00317	U	0.00315	U	-	-	-	-		
Endosulfan I		2.4 mg/kg	0.00169	U	0.00168	U	-	-	-	-		
Endosulfan II		2.4 mg/kg	0.00169	U	0.00168	U	-	-	-	-		
Endosulfan sulfate		2.4 mg/kg	0.000704	U	0.0007	U	-	-	-	-		
Methoxychlor	1.2	mg/kg	0.00317	U	0.00315	U	-	-	-	-		
Toxaphene		mg/kg	0.0317	U	0.0315	U	-	-	-	-		
cis-Chlordane	1.3	0.094 mg/kg	0.00211	U	0.0021	U	-	-	-	-		
trans-Chlordane		mg/kg	0.00211	U	0.0021	U	-	-	-	-		
Chlordane		mg/kg	0.0137	U	0.0136	U	-	-	-	-		
Polychlorinated Biphenyls by GC - Westborough Lab												
Aroclor 1016	1	0.1 mg/kg	0.035	U	0.0346	U	-	-	-	-		
Aroclor 1221	1	0.1 mg/kg	0.035	U	0.0346	U	-	-	-	-		
Aroclor 1232	1	0.1 mg/kg	0.035	U	0.0346	U	-	-	-	-		
Aroclor 1242	1	0.1 mg/kg	0.035	U	0.0346	U	-	-	-	-		
Aroclor 1248	1	0.1 mg/kg	0.035	U	0.0346	U	-	-	-	-		
Aroclor 1254	1	0.1 mg/kg	0.035	U	0.0346	U	-	-	-	-		
Aroclor 1260	1	0.1 mg/kg	0.035	U	0.0346	U	-	-	-	-		
Aroclor 1262	1	0.1 mg/kg	0.035	U	0.0346	U	-	-	-	-		
Aroclor 1268	1	0.1 mg/kg	0.035	U	0.0346	U	-	-	-	-		
PCBs, Total		mg/kg	0.035	U	0.0346	U	-	-	-	-		
Semivolatile Organics by GC/MS - Westborough Lab												
Acenaphthene	20	20 mg/kg	0.14	U	0.14	U	-	-	-	-		
Hexachlorobenzene		0.33 mg/kg	0.11	U	0.11	U	-	-	-	-		
Bis(2-chloroethyl)ether		mg/kg	0.16	U	0.16	U	-	-	-	-		
2-Chloronaphthalene		mg/kg	0.18	U	0.18	U	-	-	-	-		
3,3'-Dichlorobenzidine		mg/kg	0.18	U	0.18	U	-	-	-	-		
2,4-Dinitrotoluene		mg/kg	0.18	U	0.18	U	-	-	-	-		
2,6-Dinitrotoluene		mg/kg	0.18	U	0.18	U	-	-	-	-		
Fluoranthene		100 mg/kg	0.11	U	0.11	U	-	-	-	-		
4-Chlorophenyl phenyl ether		mg/kg	0.18	U	0.18	U	-	-	-	-		
4-Bromophenyl phenyl ether		mg/kg	0.18	U	0.18	U	-	-	-	-		
Bis(2-chloroisopropyl)ether		mg/kg	0.21	U	0.21	U	-	-	-	-		
Bis(2-chloroethoxy)methane		mg/kg	0.19	U	0.19	U	-	-	-	-		
Hexachlorobutadiene		mg/kg	0.18	U	0.18	U	-	-	-	-		
Hexachlorocyclopentadiene	10	mg/kg	0.51	U	0.51	U	-	-	-	-		
Hexachloroethane		mg/kg	0.14	U	0.14	U	-	-	-	-		
Isophorone		mg/kg	0.16	U	0.16	U	-	-	-	-		
Naphthalene		12 mg/kg	0.18	U	0.18	U	-	-	-	-		
Nitrobenzene	40	mg/kg	0.16	U	0.16	U	-	-	-	-		
NDPA/DPA	20	mg/kg	0.14	U	0.14	U	-	-	-	-		
n-Nitrosodi-n-propylamine		mg/kg	0.18	U	0.18	U	-	-	-	-		
Bis(2-ethylhexyl)phthalate	239	mg/kg	0.18	U	0.18	U	-	-	-	-		

TABLE 3 - SUMMARY OF RESULTS FROM SAMPLING EVENT #3
John R Oshie Childrens Hosptial Construciton - Native Soil Assessment

"U" = Not Detected Above Detection Limit, "J" = Estimated Value

LOCATION			J4-10'			J6-9'			J4-10'-VOC			J6-9'-VOC
SAMPLING DATE			10/14/2014			10/14/2014			10/14/2014			10/14/2014
LAB SAMPLE ID			L1424545-01			L1424545-02			L1424545-03			L1424545-04
SAMPLE TYPE	NYSDEC	NYSDEC	SO			SO			SO			SO
SAMPLE DEPTH (ft.)	Protect.	SCO	10			9			10			9
	Ecology	UNRES.	U Units	Qual		Qual		Qual		Qual		Qual
			mg/kg	U		U		-		-		-
Butyl benzyl phthalate			0.18	U		0.18	U	-		-		-

TABLE 3 - SUMMARY OF RESULTS FROM SAMPLING EVENT #3
John R Oshie Childrens Hospital Construcion - Native Soil Assessment

"U" = Not Detected Above Detection Limit, "J" = Estimated Value

LOCATION			J4-10'			J6-9'			J4-10'-VOC			J6-9'-VOC
SAMPLING DATE			10/14/2014			10/14/2014			10/14/2014			10/14/2014
LAB SAMPLE ID			L1424545-01			L1424545-02			L1424545-03			L1424545-04
SAMPLE TYPE	NYSDEC	NYSDEC	SO			SO			SO			SO
SAMPLE DEPTH (ft.)	Protect.	SCO	10	Qual	9	Qual	10	Qual	9	Qual		
	Ecology	UNRES. U	Units									
Di-n-butylphthalate	0.014		mg/kg	0.18	U	0.18	U	-	-	-		
Di-n-octylphthalate			mg/kg	0.18	U	0.18	U	-	-	-		
Diethyl phthalate	100		mg/kg	0.18	U	0.18	U	-	-	-		
Dimethyl phthalate	200		mg/kg	0.18	U	0.18	U	-	-	-		
Benzo(a)anthracene		1	mg/kg	0.11	U	0.11	U	-	-	-		
Benzo(a)pyrene	2.6		1 mg/kg	0.14	U	0.14	U	-	-	-		
Benzo(b)fluoranthene		1	mg/kg	0.11	U	0.11	U	-	-	-		
Benzo(k)fluoranthene		0.8	mg/kg	0.11	U	0.11	U	-	-	-		
Chrysene		1	mg/kg	0.11	U	0.11	U	-	-	-		
Acenaphthylene		100	mg/kg	0.14	U	0.14	U	-	-	-		
Anthracene		100	mg/kg	0.11	U	0.11	U	-	-	-		
Benzo(ghi)perylene		100	mg/kg	0.14	U	0.14	U	-	-	-		
Fluorene	30	30	mg/kg	0.18	U	0.18	U	-	-	-		
Phenanthrene		100	mg/kg	0.11	U	0.11	U	-	-	-		
Dibenzo(a,h)anthracene		0.33	mg/kg	0.11	U	0.11	U	-	-	-		
Indeno(1,2,3-cd)pyrene		0.5	mg/kg	0.14	U	0.14	U	-	-	-		
Pyrene		100	mg/kg	0.11	U	0.11	U	-	-	-		
Biphenyl	60		mg/kg	0.4	U	0.41	U	-	-	-		
4-Chloroaniline			mg/kg	0.18	U	0.18	U	-	-	-		
2-Nitroaniline			mg/kg	0.18	U	0.18	U	-	-	-		
3-Nitroaniline			mg/kg	0.18	U	0.18	U	-	-	-		
4-Nitroaniline			mg/kg	0.18	U	0.18	U	-	-	-		
Dibenzofuran		7	mg/kg	0.18	U	0.18	U	-	-	-		
2-Methylnaphthalene			mg/kg	0.21	U	0.21	U	-	-	-		
1,2,4,5-Tetrachlorobenzene			mg/kg	0.18	U	0.18	U	-	-	-		
Acetophenone			mg/kg	0.18	U	0.18	U	-	-	-		
2,4,6-Trichlorophenol	10		mg/kg	0.11	U	0.11	U	-	-	-		
p-Chloro-m-cresol			mg/kg	0.18	U	0.18	U	-	-	-		
2-Chlorophenol	0.8		mg/kg	0.18	U	0.18	U	-	-	-		
2,4-Dichlorophenol	20		mg/kg	0.16	U	0.16	U	-	-	-		
2,4-Dimethylphenol			mg/kg	0.18	U	0.18	U	-	-	-		
2-Nitrophenol	7		mg/kg	0.38	U	0.39	U	-	-	-		
4-Nitrophenol	7		mg/kg	0.25	U	0.25	U	-	-	-		
2,4-Dinitrophenol	20		mg/kg	0.85	U	0.86	U	-	-	-		
4,6-Dinitro-o-cresol			mg/kg	0.46	U	0.46	U	-	-	-		
Pentachlorophenol	0.8	0.8	mg/kg	0.14	U	0.14	U	-	-	-		
Phenol	30	0.33	mg/kg	0.18	U	0.18	U	-	-	-		
2-Methylphenol		0.33	mg/kg	0.18	U	0.18	U	-	-	-		
3-Methylphenol/4-Methylphenol		0.33	mg/kg	0.26	U	0.26	U	-	-	-		
2,4,5-Trichlorophenol	4		mg/kg	0.18	U	0.18	U	-	-	-		
Carbazole			mg/kg	0.18	U	0.18	U	-	-	-		
Benzaldehyde			mg/kg	0.23	U	0.24	U	-	-	-		
Caprolactam			mg/kg	0.18	U	0.18	U	-	-	-		
Atrazine			mg/kg	0.14	U	0.14	U	-	-	-		
2,3,4,6-Tetrachlorophenol			mg/kg	0.18	U	0.18	U	-	-	-		
Total Metals - Westborough Lab												
Arsenic, Total	13	13	mg/kg	2.7		0.95	-	-	-	-		
Barium, Total	433	350	mg/kg	18		20	-	-	-	-		
Beryllium, Total	10	7.2	mg/kg	0.1	J	0.1	J	-	-	-		
Cadmium, Total	4	2.5	mg/kg	0.05	J	0.06	J	-	-	-		
Chromium, Total			mg/kg	4.4		4.2	-	-	-	-		
Copper, Total	50	50	mg/kg	7		7.3	-	-	-	-		
Lead, Total	63	63	mg/kg	7		7.8	-	-	-	-		
Manganese, Total	1600	1600	mg/kg	240		230	-	-	-	-		
Mercury, Total	0.18	0.18	mg/kg	0.07	U	0.08	U	-	-	-		
Nickel, Total	30	30	mg/kg	4		3.8	-	-	-	-		
Selenium, Total	3.9	3.9	mg/kg	0.57	J	0.52	J	-	-	-		
Silver, Total	2	2	mg/kg	0.42	U	0.43	U	-	-	-		
Zinc, Total	109	109	mg/kg	48		49	-	-	-	-		

TABLE 3 - SUMMARY OF RESULTS FROM SAMPLING EVENT #3
John R Oshie Childrens Hospital Construcion - Native Soil Assessment

"U" = Not Detected Above Detection Limit, "J" = Estimated Value

LOCATION			J4-10'			J6-9'			J4-10'-VOC			J6-9'-VOC
SAMPLING DATE			10/14/2014			10/14/2014			10/14/2014			10/14/2014
LAB SAMPLE ID			L1424545-01			L1424545-02			L1424545-03			L1424545-04
SAMPLE TYPE	NYSDEC	NYSDEC	SO		SO			SO		SO		SO
SAMPLE DEPTH (ft.)	Protect.	SCO	10	Qual	9	Qual	Qual	10	Qual	9	Qual	Qual
	Ecology	UNRES. U Units										
Volatile Organics by 8260/5035 - Westborough Lab												
Methylene chloride	12	0.05 mg/kg	0.009	U	0.0095	U	0.0094	U	0.0098	U		
1,1-Dichloroethane		0.27 mg/kg	0.0014	U	0.0014	U	0.0014	U	0.0015	U		
Chloroform	12	0.37 mg/kg	0.0014	U	0.0014	U	0.0014	U	0.0015	U		
Carbon tetrachloride		0.76 mg/kg	0.0009	U	0.00095	U	0.00094	U	0.00098	U		
1,2-Dichloropropane	700	mg/kg	0.0032	U	0.0033	U	0.0033	U	0.0034	U		
Dibromochloromethane	10	mg/kg	0.0009	U	0.00095	U	0.00094	U	0.00098	U		
1,1,2-Trichloroethane		mg/kg	0.0014	U	0.0014	U	0.0014	U	0.0015	U		
Tetrachloroethene	2	1.3 mg/kg	0.0009	U	0.00095	U	0.00094	U	0.00098	U		
Chlorobenzene	40	1.1 mg/kg	0.0009	U	0.00095	U	0.00094	U	0.00098	U		
Trichlorofluoromethane		mg/kg	0.0045	U	0.0048	U	0.0047	U	0.0049	U		
1,2-Dichloroethane	10	0.02 mg/kg	0.0009	U	0.00095	U	0.00094	U	0.00098	U		
1,1,1-Trichloroethane		0.68 mg/kg	0.0009	U	0.00095	U	0.00094	U	0.00098	U		
Bromodichloromethane		mg/kg	0.0009	U	0.00095	U	0.00094	U	0.00098	U		
trans-1,3-Dichloropropene		mg/kg	0.0009	U	0.00095	U	0.00094	U	0.00098	U		
cis-1,3-Dichloropropene		mg/kg	0.0009	U	0.00095	U	0.00094	U	0.00098	U		
Bromoform		mg/kg	0.0036	U	0.0038	U	0.0038	U	0.0039	U		
1,1,2,2-Tetrachloroethane	2	mg/kg	0.0009	U	0.00095	U	0.00094	U	0.00098	U		
Benzene	70	0.06 mg/kg	0.0009	U	0.00095	U	0.00094	U	0.00098	U		
Toluene	36	0.7 mg/kg	0.0014	U	0.0014	U	0.0014	U	0.0015	U		
Ethylbenzene		1 mg/kg	0.0009	U	0.00095	U	0.00094	U	0.00098	U		
Chloromethane		mg/kg	0.0045	U	0.0048	U	0.0047	U	0.0049	U		
Bromomethane		mg/kg	0.0018	U	0.0019	U	0.0019	U	0.002	U		
Vinyl chloride		0.02 mg/kg	0.0018	U	0.0019	U	0.0019	U	0.002	U		
Chloroethane		mg/kg	0.0018	U	0.0019	U	0.0019	U	0.002	U		
1,1-Dichloroethene		0.33 mg/kg	0.0009	U	0.00095	U	0.00094	U	0.00098	U		
trans-1,2-Dichloroethene		0.19 mg/kg	0.0014	U	0.0014	U	0.0014	U	0.0015	U		
Trichloroethene	2	0.47 mg/kg	0.0009	U	0.00095	U	0.00094	U	0.00098	U		
1,2-Dichlorobenzene		1.1 mg/kg	0.0045	U	0.0048	U	0.0047	U	0.0049	U		
1,3-Dichlorobenzene		2.4 mg/kg	0.0045	U	0.0048	U	0.0047	U	0.0049	U		
1,4-Dichlorobenzene	20	1.8 mg/kg	0.0045	U	0.0048	U	0.0047	U	0.0049	U		
Methyl tert butyl ether		0.93 mg/kg	0.0018	U	0.0019	U	0.0019	U	0.002	U		
p/m-Xylene		mg/kg	0.0018	U	0.0019	U	0.0019	U	0.002	U		
o-Xylene		mg/kg	0.0018	U	0.0019	U	0.0019	U	0.002	U		
cis-1,2-Dichloroethene		0.25 mg/kg	0.0009	U	0.00095	U	0.00094	U	0.00098	U		
Styrene	300	mg/kg	0.0018	U	0.0019	U	0.0019	U	0.002	U		
Dichlorodifluoromethane		mg/kg	0.009	U	0.0095	U	0.0094	U	0.0098	U		
Acetone	2.2	0.05 mg/kg	0.009	U	0.0065	J	0.01		0.0077	J		
Carbon disulfide		mg/kg	0.009	U	0.0095	U	0.0094	U	0.0098	U		
2-Butanone	100	0.12 mg/kg	0.009	U	0.0095	U	0.0094	U	0.0098	U		
4-Methyl-2-pentanone		mg/kg	0.009	U	0.0095	U	0.0094	U	0.0098	U		
2-Hexanone		mg/kg	0.009	U	0.0095	U	0.0094	U	0.0098	U		
Bromochloromethane		mg/kg	0.0045	U	0.0048	U	0.0047	U	0.0049	U		
1,2-Dibromoethane		mg/kg	0.0036	U	0.0038	U	0.0038	U	0.0039	U		
1,2-Dibromo-3-chloropropane		mg/kg	0.0045	U	0.0048	U	0.0047	U	0.0049	U		
Isopropylbenzene		mg/kg	0.0009	U	0.00095	U	0.00094	U	0.00098	U		
1,2,3-Trichlorobenzene	20	mg/kg	0.0045	U	0.0048	U	0.0047	U	0.0049	U		
1,2,4-Trichlorobenzene	20	mg/kg	0.0045	U	0.0048	U	0.0047	U	0.0049	U		
Methyl Acetate		mg/kg	0.018	U	0.019	U	0.019	U	0.02	U		
Cyclohexane		mg/kg	0.018	U	0.019	U	0.019	U	0.02	U		
1,4-Dioxane	0.1	0.1 mg/kg	0.09	U	0.095	U	0.094	U	0.098	U		
Freon-113		mg/kg	0.018	U	0.019	U	0.019	U	0.02	U		
Methyl cyclohexane		mg/kg	0.0036	U	0.0038	U	0.0038	U	0.0039	U		



BUFFALO CRUSHED STONE

Division of New Enterprise Stone & Lime Co., Inc.



500 Como Park Blvd. • Buffalo, NY 14227 • (716) 826-7310 • FAX (716) 826-1342

January 9, 2017

Mr. Andrew Kosecki
Pinto Construction Services, Inc.
1 Babcock Street
Buffalo, NY 14210

Re: Flexco Site

Dear Drew:

The Crushed Limestone Subbase material supplied to the above referenced project was extracted, crushed, and screened at our Lancaster, NY facility. This material is produced from a virgin stone source, un-impacted by hazardous materials or contaminants. The Quarry is a NYSDOT approved source; the source number is 5-3R. The attached is a copy of the New York State Department of Environmental Conservation Permit.

Sincerely,

Curt Resetarits
Vice President of Sales



PERMIT

Under the Environmental Conservation Law (ECL)

Permittee and Facility Information

Permit Issued To:
BUFFALO CRUSHED STONE INC
2544 CLINTON ST
PO BOX 710
BUFFALO, NY 14224-0710
(716) 826-7310

Facility:
WEHRLE / BARTON QUARRY
8615 WEHRLE DR
CLARENCE, NY 14031

Facility Location: In MULTIPLE TOWNS in ERIE COUNTY

Facility Principal Reference Point: NYTM-E: 202.09 NYTM-N: 4762.37
Latitude: 43°57'20.5" Longitude: 79°39'07.8"

Authorized Activity: Continue operation of the 762 acre Wehrle Barton Quarry, process areas and stockpiles. The project is located on property owned by Buffalo Crushed Stone, Inc. within an area generally defined by Harris Hill Road, Wehrle Drive, Barton Road and the New York State Thruway in the Towns of Clarence and Lancaster. The reclamation objective is a reservoir (water supply system) and upland meadow, forest and roadway.

Permit Authorizations

Mined Land Reclamation - Under Article 23, Title 27

Permit ID 9-1499-00064/00003

(Mined Land ID 90018)

Renewal

Effective Date: 3/14/2010

Expiration Date: 3/13/2015

NYSDEC Approval

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, and all conditions included as part of this permit.

Permit Administrator: CHARLES D CRANSTON, Deputy Regional Permit Administrator
Address: NYSDEC REGION 9 ALLEGANY SUB-OFFICE
182 EAST UNION - STE 3
ALLEGANY, NY 14706 -1328

Authorized Signature: Charles D. Cranston Date 3/2/2010

Volumes by Triangulation (Prisms)

Mon Jan 30 15:18:20 2017

Existing Surface: C:\Survey 2017\17-0020 Topsoil Pile in Yard\Surface\Topsoil Pile Base.tin

Final Surface: C:\Survey 2017\17-0020 Topsoil Pile in Yard\Surface\Topsoil Pile.tin

Cut volume: 0.0 C.F., 0.00 C.Y.

Fill volume: 52,875.2 C.F., 1,958.34 C.Y.

Area in Cut : 0.0 S.F., 0.00 Acres

Area in Fill: 11,702.3 S.F., 0.27 Acres

Total inclusion area: 11,702.3 S.F., 0.27 Acres

Average Fill Depth: 4.52 feet

Cut to Fill ratio: 0.00

Import Volume: 1,958.3 C.Y.

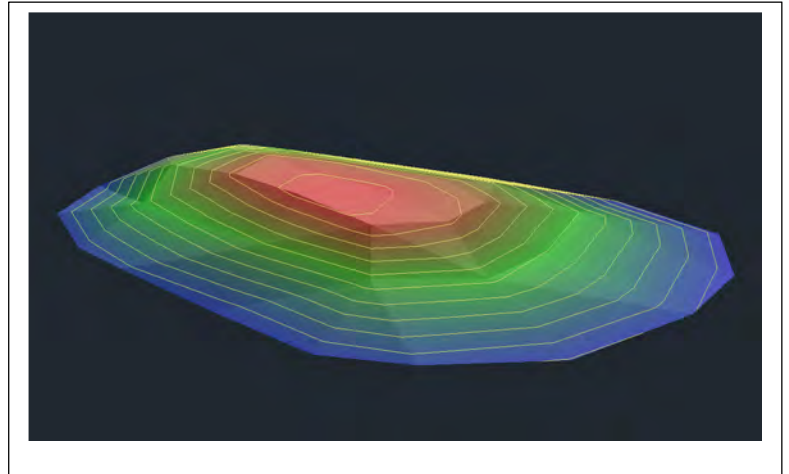
Elevation Change To Reach Balance: -4.518

Volume Change Per .1 ft: 43.3 C.Y.

Cut (C.Y.) / Area (acres): 0.00

Fill (C.Y.) / Area (acres): 7289.65

Max Fill: 10.224 at 1080145.776,1044164.747



APPENDIX F

Summary of Petroleum Impacted Soil Investigation and Remediation



David Szymanski, Project Manager
New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, NY 14203-2915

Arcadis of New York, Inc.
50 Fountain Plaza
Suite 600
Buffalo, New York 14202
Tel 716.667.0900

Subject:

Flexo Transparent, LLC - BCP Site C915228
Petroleum Impacted Soil Investigation and Remediation

ENVIRONMENT

Dear Mr. Szymanski:

On behalf of Flexo Transparent, LLC (Flexo), Arcadis of New York, Inc. (Arcadis) is submitting this summary of investigation and remedial activities associated with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Clean-Up Program (BCP) Site C915228. Flexo has expanded flexographic printing capabilities at the facility, which required activities such as permit updates, tax parcel merging, site development, construction, and ground intrusive activities in accordance with the Site Management Plan (SMP). These activities, which were completed from the Fall of 2016 through the Fall of 2017, will be documented in a separate report that encompasses the entirety of the project. The purpose of this document is to summarize the investigation and remedial activities associated with petroleum impacts on former tax parcel section 123, block 29-1, lot 10 (1146 Seneca Street), which is now merged into tax parcel section 123, block 29-1, lot 2.11 (28 Wasson). This area of concern, hereafter referred to as the Site, is located north of the sidewalk, east of the parking lot, and west of the neighboring community center building (Figure 1).

Date:

November 20, 2017

Email:

Ben.Girard@
Arcadis.com

Phone:

716.667.6645

Our ref:

6105002.0010

1.0 Project Team

Arcadis' role is to document and oversee ground intrusive activities on the Flexo property to ensure compliance with the SMP. All ground intrusive activities, including investigation, sampling, screening, waste characterization, excavation, staging, transportation and disposal, material import, and community air monitoring has been completed in compliance with the SMP.

Pinto Construction Services, Inc. (Pinto) served as the earthwork construction contractor that completed the ground intrusive activities, including infrastructure installation and remedial actions, documented hereafter.

Environmental Products and Services of Vermont, Inc. (EPSVT) performed soil boring advancement under the direction of Arcadis.

2.0 Background

Flexo's expansion operations included the installation of a six-inch water main from Seneca Street to a new hydrant approximately 250 feet north of the sidewalk. On June 19, 2017, approximately 50 feet north of the sidewalk that forms the southern boundary of the Site, a cluster of two-inch pipes was located during excavation of the waterline trench (Figure 2). The pipes were approximately 1 foot below ground surface and ran east-west. The west end of the pipes appeared to be cut and left-in place. The east end of two of the pipes was identified by hand digging. The east end of the remaining pipes was not located. New York Leak Detection, Inc. performed utility location and was not able to locate an underground storage tank.

The trench was excavated down to approximately six feet below the parking lot level¹, where sand and fill material was encountered. Elsewhere on the property, clay is typically observed at three feet below parking lot elevation. The soil smelled of a gasoline-like odor, reading a head-space of 400 parts per million (ppm) to 700 ppm measured by a photoionization detector (PID). Arcadis collected and submitted a disposal waste characterization sample for analysis per required landfill parameters. A layer of poly sheeting was placed in the trench, and the trench was backfilled with the original soil from the trench to prevent safety issues or water accumulation.

Arcadis contacted the NYSDEC to discuss the observations with the BCP project manager. It was determined that investigation and subsequent corrective action would be executed through the BCP.

3.0 Investigation

Arcadis reviewed historical records, performed test pits, and advanced soil borings to delineate the impacted area as described in the following sections.

3.1 Historical Records

The Flexo Phase I Environmental Site Assessment completed by Arcadis in 2012 identified that City of Buffalo records indicated that Gulf Oil operated a filling station on the 1146 Seneca Street portion of the property. A historical Sanborn map circa 1940s shows a filling station near the observed impacts.

3.2 Test Pits

On June 20, 2017, four test pits were excavated along the proposed water line to a depth of six feet below parking lot elevation. Soil screened during the excavation of each test pit measured a head-space of less than 5 ppm by PID. A 500-gallon underground storage tank (UST) was discovered approximately 100 feet north of the area of concern. The UST was excavated on June 22, 2017 and registered as "closed" with the NYSDEC Petroleum Bulk Storage Program. The PID readings from surrounding soil and from within the UST were less than 5 ppm. The UST appeared to not be associated with the pipes or impacts observed 100 feet to the south. The tank was excavated, cleaned, and recycled as scrap.

¹The water line runs parallel to a vegetated soil berm, which at the highest elevation is approximately two feet above the parking lot elevation. To eliminate confusion, depths are presented in reference to the parking lot elevation (approximately 590 MSL).

3.3 Subsurface Investigation

On August 4, 2017, Arcadis provided oversight of soil boring advancement completed by EPSVT. Nine soil borings were advanced. In four of the nine borings, odor was observed from 4 feet to 6 feet below parking lot elevation and head-space PID readings associated with soils exhibiting an odor were observed between 1,200 ppm and 2,100 ppm. A soil sample was collected from 7.5 feet to 8 feet below parking lot elevation to confirm concentration of constituents at the floor of the proposed excavation. The sample was submitted for analysis by SW-846 Method 8260B: Volatile Organic Compounds, and all constituents analyzed were below the NYSDEC CP-51 soil clean-up limits. Arcadis also collected an additional disposal waste characterization sample.

4.0 Remedial Excavation

On September 6, 2017 through September 7, 2017, Arcadis provided oversight of excavation of impacted soil. Excavation continued to the north (approximate to the north wall of the community center) and to the south (approximately 20 feet north of the sidewalk) until visual, olfactory, and PID-screened impacts were not observed. Excavation proceeded to the west to the edge of the parking lot and to the east, stopping 8 feet away from the community center to maintain building foundation integrity. Final dimensions of the excavation measured approximately 2,025 square feet with a 75-foot length running north-south and a 27' width running north-east with a depth of 9.5 feet below ground surface, which is approximately 7.5 feet below the parking lot elevation (Figure 2). Approximately 1,200 tons of non-hazardous petroleum impacted soil was excavated and disposed at the Waste Management Chaffee Landfill.

A vapor suppression foam was used during backfill as a precaution for community air monitoring per the SMP protocol. During community air monitoring, air concentration exceedances were not observed. The highest instantaneous reading at the downwind location measured 20 ppm adjacent to the community center, while the highest upwind location measured 6 ppm in the parking lot.

The excavation was backfilled to within 4 feet of surface with imported 2-inch crusher run and compacted in place. Once the excavation was backfilled, Pinto proceeded with installation of the water line pipe and hot box, the trench was backfilled with soil, mounded to match previous berm dimensions, and hydroseeded. Analytical results of material proposed by Pinto for on-site fill was reviewed by Arcadis and was determined to meet the criteria of the SMP and the NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation.

5.0 Supplemental Investigation

In order to investigate potential impacts near the Community Center, one excavator bucket width of soil was excavated to within 1 foot of the foundation wall and a head-space PID reading of 380 ppm was recorded at 5 feet below parking lot elevation. Subsequently, based on this data, Arcadis further investigated impacts to soil remaining in place along the west wall of the Community Center. On October 4, 2017, EPSVT advanced four soil borings along the west wall of the community center, starting 15 feet south of the excavation northern limit and proceeding 15 feet south for each subsequent boring. For each boring, a soil sample was collected at 7 feet below ground surface (5 feet below parking lot elevation), which was the depth consistent with observed odors and the highest PID readings. Constituents analyzed include NYSDEC CP-51 soil clean-up objective petroleum constituents as well as constituents included

Matrices 1 and 2 of the New York State Department of Health vapor intrusion guidance documents ². The concentrations of each constituent were below the 6 NYCRR Part 375 6.8(b) residential and industrial soil clean-up objective limits, as shown in Table 1.

Table 1. Soil Samples from Flexo Property along Community Center West Wall										
Parameter	Part 375 Res SCO (PPM)	Part 375 Ind. SCO (PPM)	SB-1 (PPM)		SB-2 (PPM)		SB-3 (PPM)		SB-4 (PPM)	
<i>1,2,4-Trimethylbenzene</i>	47	380	0.75	J	4.8		21		3.1	
<i>1,3,5-Trimethylbenzene</i>	47	380	3.8		0.87	J	11		1.3	
<i>4-Isopropyltoluene</i>	None	None	2.2		1.1	J	1.3		0.41	
<i>Ethylbenzene</i>	30	780	3.3		1.4	J	14		1.6	
<i>Isopropylbenzene</i>	None	None	2.4		0.62	J	2.3		0.54	
<i>Naphthalene</i>	100	1000	0.79	J	1.2	J	3.4		0.78	
<i>n-Butylbenzene</i>	100	1000	1.2	J	0.7	J	1.6		0.49	
<i>N-Propylbenzene</i>	100	1000	3.2		1.1	J	3.3		0.77	
<i>sec-Butylbenzene</i>	100	1000	1.5	J	1.2	J	0.72		0.23	
<i>m-Xylene & p-Xylene</i>	None	None	ND		ND		13		1.6	
<i>o-Xylene</i>	None	None	ND		ND		0.43	J	0.12	
<i>Xylenes, Total</i>	100	1000	ND		ND		13		1.7	
<i>Benzene</i>	2.9	89	ND		ND		0.17		0.0086	J
<i>tert-Butylbenzene</i>	100	1000	ND		ND		ND		0.013	
<i>Toluene</i>	100	1000	ND		ND		0.29		0.06	
<i>Methyl tert-butyl ether</i>	62	1000	ND		ND		ND		ND	
Carbon tetrachloride	1.4	44	ND		ND		ND		ND	
cis-1,2-Dichloroethene	59	1000	ND		ND		ND		ND	
1,1,1-Trichloroethane	100	1000	ND		ND		ND		ND	
1,1-Dichloroethene	100	1000	ND		ND		ND		ND	
Methylene Chloride	51	1000	ND		ND		0.021		0.26	
Tetrachloroethene	5.5	300	ND		ND		ND		ND	
Trichloroethene	10	400	ND		ND		ND		ND	
Vinyl chloride	0.21	27	ND		ND		ND		ND	

Italicized = parameters listed in NYSDEC CP-51 guidance

Bold = parameters listed in NYSDOH vapor intrusion guidance

J= result is less than the reporting limit but greater than or equal to the method detection limit

ND=not detected at the method detection limit

² This investigation measured the concentration of constituents in soil and does not include soil vapor sample collection and analysis.

6.0 Conclusion

Arcadis, on behalf of Flexo, has completed the following activities:

- Historical record review,
- Utility location to identify potential subsurface infrastructure, such as underground storage tanks and distribution pipes,
- Delineation of impacts, including test pits and two rounds of soil borings,
- Remedial excavation of approximately 1,200 tons of non-hazardous petroleum impacted soil,
- Installation of a water line and fire hydrant, and
- Surface restoration.

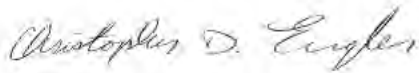
The purpose of the investigation and remedial action is to confirm that onsite soil constituent concentrations are below the industrial soil clean up objectives set forth in 6 NYCRR Part 375-6.8(b). Arcadis has performed horizontal and vertical soil boring, field screening by olfactory, visual, and PID methods, and analytical delineation using the list of CP-51 constituents. Arcadis has established that the petroleum impacted material left in place along the west wall of the community center is below both the residential and industrial soil clean-up objectives set forth in 6 NYCRR Part 375-6.8(b). All ground intrusive activities have been performed in compliance with the SMP.

Please contact Arcadis if you have any questions or require additional information.

Sincerely,
Arcadis of New York, Inc.



Ben Girard
Project Manager, Associate Vice President



Chris Engler
New York State Professional Engineer, Vice President

CC:

B. Mabry (Flexo)
D. Steger (Flexo)
T. Newman (Flexo)

Figures

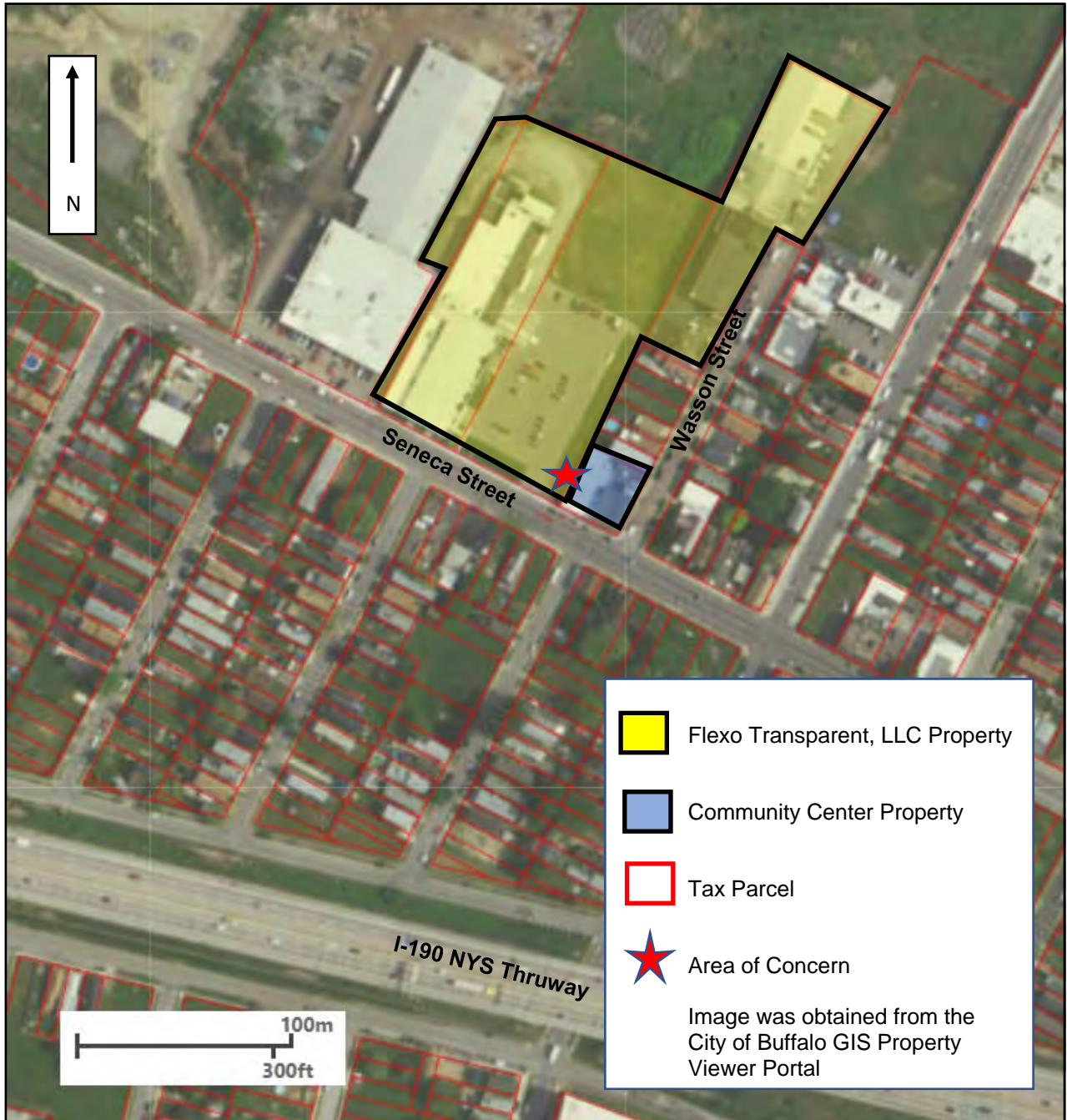
- 1 Site Location
- 2 Area of Concern

Attachments

- A Photograph Log
- B Laboratory Analytical Data
- C Waste Documentation

Figures





Flexo Transparent, LLC
Buffalo, NY
Site Location

Figure 1
November 2017



Image obtained from
Google Earth

— 2-inch cluster of pipes

● soil boring sample collected 10.4.2017

— underground water line to hydrant

□ excavation area

← North



Flexo Transparent, LLC
Buffalo, NY

Area of Concern

Figure 2
November 2017

ATTACHMENT 1

Photograph Log



PHOTOGRAPH LOG

Flexo Transparent, LLC

Buffalo, NY



Photograph: 1

Description:

Facing north-east:
cluster of 2-inch
pipes 1 foot below
ground surface
running east-west

Date: 6/19/2017



Photograph: 2

Description:

Facing west: 2-inch
pipe located 1 foot
below ground
surface

Date: 6/19/2017

PHOTOGRAPH LOG

Flexo Transparent, LLC

Buffalo, NY



Photograph: 3

Description:
Facing northeast:
vapor suppression
foam

Date: 9/7/2017



Photograph: 4

Description:
Facing southwest:
backfilling excavation

Date: 9/7/2017

ATTACHMENT 2

Laboratory Analytical Data



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-125290-1

Client Project/Site: Flexo Transparent

For:

ARCADIS U.S. Inc

50 Fountain Plaza

Suite 600

Buffalo, New York 14202

Attn: Katherine Clubine



Authorized for release by:

10/17/2017 3:40:59 PM

Rebecca Jones, Project Management Assistant I

rebecca.jones@testamericainc.com

Designee for

Melissa Deyo, Project Manager I

(716)504-9874

melissa.deyo@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-125290-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-125290-1

Job ID: 480-125290-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-125290-1

Receipt

The samples were received on 10/4/2017 5:23 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

GC/MS VOA

Method(s) 8260C: The method blank for preparation batch 480-380402 contained Methylene Chloride above the reporting limit (RL). This compound is considered a common laboratory contaminant. The associated sample(s) was not re-extracted and/or re-analyzed because the concentration of the common lab contaminant in the method blank was less than 5 times the RL. The following samples are impacted: SB-01 (7') 20171004 (480-125290-1), SB-02 (7') 20171004 (480-125290-2), SB-03 (7') 20171004 (480-125290-3) and SB-04 (7') 20171004 (480-125290-4).

Method(s) 8260C: The following samples was analyzed using medium level soil analysis and diluted due to the nature of the sample matrix: SB-01 (7') 20171004 (480-125290-1) and SB-02 (7') 20171004 (480-125290-2). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples was analyzed using medium level soil analysis to bring the concentration of target analytes within the calibration range: SB-03 (7') 20171004 (480-125290-3) and SB-04 (7') 20171004 (480-125290-4). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was analyzed using medium level soil analysis and diluted to bring the concentration of target analytes within the calibration range: SB-03 (7') 20171004 (480-125290-3). Elevated reporting limits (RLs) are provided.

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

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-125290-1

Client Sample ID: SB-01 (7') 20171004

Lab Sample ID: 480-125290-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	750	J	2200	620	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	3800		2200	670	ug/Kg	50	☼	8260C	Total/NA
4-Isopropyltoluene	2200		2200	750	ug/Kg	50	☼	8260C	Total/NA
Ethylbenzene	3300		2200	640	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	2400		2200	330	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	790	J	2200	750	ug/Kg	50	☼	8260C	Total/NA
n-Butylbenzene	1200	J	2200	650	ug/Kg	50	☼	8260C	Total/NA
N-Propylbenzene	3200		2200	580	ug/Kg	50	☼	8260C	Total/NA
sec-Butylbenzene	1500	J	2200	820	ug/Kg	50	☼	8260C	Total/NA

Client Sample ID: SB-02 (7') 20171004

Lab Sample ID: 480-125290-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	4800		2200	630	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	870	J	2200	680	ug/Kg	50	☼	8260C	Total/NA
4-Isopropyltoluene	1100	J	2200	760	ug/Kg	50	☼	8260C	Total/NA
Ethylbenzene	1400	J	2200	650	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	620	J	2200	340	ug/Kg	50	☼	8260C	Total/NA
m-Xylene & p-Xylene	1200	J	4500	1200	ug/Kg	50	☼	8260C	Total/NA
n-Butylbenzene	700	J	2200	660	ug/Kg	50	☼	8260C	Total/NA
N-Propylbenzene	1100	J	2200	590	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	1200	J	4500	1200	ug/Kg	50	☼	8260C	Total/NA

Client Sample ID: SB-03 (7') 20171004

Lab Sample ID: 480-125290-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4-Isopropyltoluene	1300		46	16	ug/Kg	1	☼	8260C	Total/NA
Benzene	170		46	8.8	ug/Kg	1	☼	8260C	Total/NA
Isopropylbenzene	2300		46	6.9	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	21	J B	46	9.2	ug/Kg	1	☼	8260C	Total/NA
Naphthalene	3400		46	16	ug/Kg	1	☼	8260C	Total/NA
n-Butylbenzene	1600		46	14	ug/Kg	1	☼	8260C	Total/NA
N-Propylbenzene	3300		46	12	ug/Kg	1	☼	8260C	Total/NA
sec-Butylbenzene	720		46	17	ug/Kg	1	☼	8260C	Total/NA
Toluene	290		46	12	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene - DL	21000		460	130	ug/Kg	10	☼	8260C	Total/NA
1,3,5-Trimethylbenzene - DL	11000		460	140	ug/Kg	10	☼	8260C	Total/NA
Ethylbenzene - DL	14000		460	130	ug/Kg	10	☼	8260C	Total/NA
m-Xylene & p-Xylene - DL	13000		930	260	ug/Kg	10	☼	8260C	Total/NA
o-Xylene - DL	430	J	460	60	ug/Kg	10	☼	8260C	Total/NA
Xylenes, Total - DL	13000		930	260	ug/Kg	10	☼	8260C	Total/NA

Client Sample ID: SB-04 (7') 20171004

Lab Sample ID: 480-125290-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	3100		45	13	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	1300		45	14	ug/Kg	1	☼	8260C	Total/NA
4-Isopropyltoluene	410		45	15	ug/Kg	1	☼	8260C	Total/NA
Benzene	8.6	J	45	8.5	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	1600		45	13	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-125290-1

Client Sample ID: SB-04 (7') 20171004 (Continued)

Lab Sample ID: 480-125290-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropylbenzene	540		45	6.7	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	260	B	45	8.9	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene	1600		90	25	ug/Kg	1	☼	8260C	Total/NA
Naphthalene	780		45	15	ug/Kg	1	☼	8260C	Total/NA
n-Butylbenzene	490		45	13	ug/Kg	1	☼	8260C	Total/NA
N-Propylbenzene	770		45	12	ug/Kg	1	☼	8260C	Total/NA
o-Xylene	120		45	5.8	ug/Kg	1	☼	8260C	Total/NA
sec-Butylbenzene	230		45	16	ug/Kg	1	☼	8260C	Total/NA
tert-Butylbenzene	13	J	45	12	ug/Kg	1	☼	8260C	Total/NA
Toluene	60		45	12	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	1700		90	25	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-125290-1

Client Sample ID: SB-01 (7') 20171004

Lab Sample ID: 480-125290-1

Date Collected: 10/04/17 09:30

Matrix: Solid

Date Received: 10/04/17 17:23

Percent Solids: 86.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2200	610	ug/Kg	☼	10/05/17 13:52	10/11/17 18:02	50
1,1-Dichloroethene	ND		2200	770	ug/Kg	☼	10/05/17 13:52	10/11/17 18:02	50
1,2,4-Trimethylbenzene	750	J	2200	620	ug/Kg	☼	10/05/17 13:52	10/11/17 18:02	50
1,3,5-Trimethylbenzene	3800		2200	670	ug/Kg	☼	10/05/17 13:52	10/11/17 18:02	50
4-Isopropyltoluene	2200		2200	750	ug/Kg	☼	10/05/17 13:52	10/11/17 18:02	50
Benzene	ND		2200	420	ug/Kg	☼	10/05/17 13:52	10/11/17 18:02	50
Carbon tetrachloride	ND		2200	560	ug/Kg	☼	10/05/17 13:52	10/11/17 18:02	50
cis-1,2-Dichloroethene	ND		2200	610	ug/Kg	☼	10/05/17 13:52	10/11/17 18:02	50
Ethylbenzene	3300		2200	640	ug/Kg	☼	10/05/17 13:52	10/11/17 18:02	50
Isopropylbenzene	2400		2200	330	ug/Kg	☼	10/05/17 13:52	10/11/17 18:02	50
Methyl tert-butyl ether	ND		2200	840	ug/Kg	☼	10/05/17 13:52	10/11/17 18:02	50
Methylene Chloride	ND		2200	440	ug/Kg	☼	10/05/17 13:52	10/11/17 18:02	50
m-Xylene & p-Xylene	ND		4400	1200	ug/Kg	☼	10/05/17 13:52	10/11/17 18:02	50
Naphthalene	790	J	2200	750	ug/Kg	☼	10/05/17 13:52	10/11/17 18:02	50
n-Butylbenzene	1200	J	2200	650	ug/Kg	☼	10/05/17 13:52	10/11/17 18:02	50
N-Propylbenzene	3200		2200	580	ug/Kg	☼	10/05/17 13:52	10/11/17 18:02	50
o-Xylene	ND		2200	290	ug/Kg	☼	10/05/17 13:52	10/11/17 18:02	50
sec-Butylbenzene	1500	J	2200	820	ug/Kg	☼	10/05/17 13:52	10/11/17 18:02	50
tert-Butylbenzene	ND		2200	620	ug/Kg	☼	10/05/17 13:52	10/11/17 18:02	50
Tetrachloroethene	ND		2200	300	ug/Kg	☼	10/05/17 13:52	10/11/17 18:02	50
Toluene	ND		2200	590	ug/Kg	☼	10/05/17 13:52	10/11/17 18:02	50
Trichloroethene	ND		2200	620	ug/Kg	☼	10/05/17 13:52	10/11/17 18:02	50
Vinyl chloride	ND		2200	740	ug/Kg	☼	10/05/17 13:52	10/11/17 18:02	50
Xylenes, Total	ND		4400	1200	ug/Kg	☼	10/05/17 13:52	10/11/17 18:02	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		53 - 146	10/05/17 13:52	10/11/17 18:02	50
4-Bromofluorobenzene (Surr)	98		49 - 148	10/05/17 13:52	10/11/17 18:02	50
Toluene-d8 (Surr)	98		50 - 149	10/05/17 13:52	10/11/17 18:02	50
Dibromofluoromethane (Surr)	95		60 - 140	10/05/17 13:52	10/11/17 18:02	50

Client Sample ID: SB-02 (7') 20171004

Lab Sample ID: 480-125290-2

Date Collected: 10/04/17 10:20

Matrix: Solid

Date Received: 10/04/17 17:23

Percent Solids: 87.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2200	620	ug/Kg	☼	10/05/17 13:52	10/11/17 18:29	50
1,1-Dichloroethene	ND		2200	780	ug/Kg	☼	10/05/17 13:52	10/11/17 18:29	50
1,2,4-Trimethylbenzene	4800		2200	630	ug/Kg	☼	10/05/17 13:52	10/11/17 18:29	50
1,3,5-Trimethylbenzene	870	J	2200	680	ug/Kg	☼	10/05/17 13:52	10/11/17 18:29	50
4-Isopropyltoluene	1100	J	2200	760	ug/Kg	☼	10/05/17 13:52	10/11/17 18:29	50
Benzene	ND		2200	430	ug/Kg	☼	10/05/17 13:52	10/11/17 18:29	50
Carbon tetrachloride	ND		2200	570	ug/Kg	☼	10/05/17 13:52	10/11/17 18:29	50
cis-1,2-Dichloroethene	ND		2200	620	ug/Kg	☼	10/05/17 13:52	10/11/17 18:29	50
Ethylbenzene	1400	J	2200	650	ug/Kg	☼	10/05/17 13:52	10/11/17 18:29	50
Isopropylbenzene	620	J	2200	340	ug/Kg	☼	10/05/17 13:52	10/11/17 18:29	50
Methyl tert-butyl ether	ND		2200	850	ug/Kg	☼	10/05/17 13:52	10/11/17 18:29	50
Methylene Chloride	ND		2200	440	ug/Kg	☼	10/05/17 13:52	10/11/17 18:29	50
m-Xylene & p-Xylene	1200	J	4500	1200	ug/Kg	☼	10/05/17 13:52	10/11/17 18:29	50

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-125290-1

Client Sample ID: SB-02 (7') 20171004

Lab Sample ID: 480-125290-2

Date Collected: 10/04/17 10:20

Matrix: Solid

Date Received: 10/04/17 17:23

Percent Solids: 87.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2200	760	ug/Kg	☼	10/05/17 13:52	10/11/17 18:29	50
n-Butylbenzene	700	J	2200	660	ug/Kg	☼	10/05/17 13:52	10/11/17 18:29	50
N-Propylbenzene	1100	J	2200	590	ug/Kg	☼	10/05/17 13:52	10/11/17 18:29	50
o-Xylene	ND		2200	290	ug/Kg	☼	10/05/17 13:52	10/11/17 18:29	50
sec-Butylbenzene	ND		2200	830	ug/Kg	☼	10/05/17 13:52	10/11/17 18:29	50
tert-Butylbenzene	ND		2200	620	ug/Kg	☼	10/05/17 13:52	10/11/17 18:29	50
Tetrachloroethene	ND		2200	300	ug/Kg	☼	10/05/17 13:52	10/11/17 18:29	50
Toluene	ND		2200	600	ug/Kg	☼	10/05/17 13:52	10/11/17 18:29	50
Trichloroethene	ND		2200	620	ug/Kg	☼	10/05/17 13:52	10/11/17 18:29	50
Vinyl chloride	ND		2200	750	ug/Kg	☼	10/05/17 13:52	10/11/17 18:29	50
Xylenes, Total	1200	J	4500	1200	ug/Kg	☼	10/05/17 13:52	10/11/17 18:29	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		53 - 146				10/05/17 13:52	10/11/17 18:29	50
4-Bromofluorobenzene (Surr)	95		49 - 148				10/05/17 13:52	10/11/17 18:29	50
Toluene-d8 (Surr)	99		50 - 149				10/05/17 13:52	10/11/17 18:29	50
Dibromofluoromethane (Surr)	92		60 - 140				10/05/17 13:52	10/11/17 18:29	50

Client Sample ID: SB-03 (7') 20171004

Lab Sample ID: 480-125290-3

Date Collected: 10/04/17 11:30

Matrix: Solid

Date Received: 10/04/17 17:23

Percent Solids: 85.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		46	13	ug/Kg	☼	10/05/17 13:52	10/11/17 18:56	1
1,1-Dichloroethene	ND		46	16	ug/Kg	☼	10/05/17 13:52	10/11/17 18:56	1
4-Isopropyltoluene	1300		46	16	ug/Kg	☼	10/05/17 13:52	10/11/17 18:56	1
Benzene	170		46	8.8	ug/Kg	☼	10/05/17 13:52	10/11/17 18:56	1
Carbon tetrachloride	ND		46	12	ug/Kg	☼	10/05/17 13:52	10/11/17 18:56	1
cis-1,2-Dichloroethene	ND		46	13	ug/Kg	☼	10/05/17 13:52	10/11/17 18:56	1
Isopropylbenzene	2300		46	6.9	ug/Kg	☼	10/05/17 13:52	10/11/17 18:56	1
Methyl tert-butyl ether	ND		46	17	ug/Kg	☼	10/05/17 13:52	10/11/17 18:56	1
Methylene Chloride	21	J B	46	9.2	ug/Kg	☼	10/05/17 13:52	10/11/17 18:56	1
Naphthalene	3400		46	16	ug/Kg	☼	10/05/17 13:52	10/11/17 18:56	1
n-Butylbenzene	1600		46	14	ug/Kg	☼	10/05/17 13:52	10/11/17 18:56	1
N-Propylbenzene	3300		46	12	ug/Kg	☼	10/05/17 13:52	10/11/17 18:56	1
sec-Butylbenzene	720		46	17	ug/Kg	☼	10/05/17 13:52	10/11/17 18:56	1
tert-Butylbenzene	ND		46	13	ug/Kg	☼	10/05/17 13:52	10/11/17 18:56	1
Tetrachloroethene	ND		46	6.2	ug/Kg	☼	10/05/17 13:52	10/11/17 18:56	1
Toluene	290		46	12	ug/Kg	☼	10/05/17 13:52	10/11/17 18:56	1
Trichloroethene	ND		46	13	ug/Kg	☼	10/05/17 13:52	10/11/17 18:56	1
Vinyl chloride	ND		46	15	ug/Kg	☼	10/05/17 13:52	10/11/17 18:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		53 - 146				10/05/17 13:52	10/11/17 18:56	1
4-Bromofluorobenzene (Surr)	90		49 - 148				10/05/17 13:52	10/11/17 18:56	1
Toluene-d8 (Surr)	96		50 - 149				10/05/17 13:52	10/11/17 18:56	1
Dibromofluoromethane (Surr)	78		60 - 140				10/05/17 13:52	10/11/17 18:56	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-125290-1

Client Sample ID: SB-03 (7') 20171004

Lab Sample ID: 480-125290-3

Date Collected: 10/04/17 11:30

Matrix: Solid

Date Received: 10/04/17 17:23

Percent Solids: 85.1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	21000		460	130	ug/Kg	☼	10/05/17 13:52	10/16/17 14:41	10
1,3,5-Trimethylbenzene	11000		460	140	ug/Kg	☼	10/05/17 13:52	10/16/17 14:41	10
Ethylbenzene	14000		460	130	ug/Kg	☼	10/05/17 13:52	10/16/17 14:41	10
m-Xylene & p-Xylene	13000		930	260	ug/Kg	☼	10/05/17 13:52	10/16/17 14:41	10
o-Xylene	430	J	460	60	ug/Kg	☼	10/05/17 13:52	10/16/17 14:41	10
Xylenes, Total	13000		930	260	ug/Kg	☼	10/05/17 13:52	10/16/17 14:41	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		53 - 146	10/05/17 13:52	10/16/17 14:41	10
4-Bromofluorobenzene (Surr)	107		49 - 148	10/05/17 13:52	10/16/17 14:41	10
Toluene-d8 (Surr)	95		50 - 149	10/05/17 13:52	10/16/17 14:41	10
Dibromofluoromethane (Surr)	83		60 - 140	10/05/17 13:52	10/16/17 14:41	10

Client Sample ID: SB-04 (7') 20171004

Lab Sample ID: 480-125290-4

Date Collected: 10/04/17 12:30

Matrix: Solid

Date Received: 10/04/17 17:23

Percent Solids: 85.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		45	12	ug/Kg	☼	10/05/17 13:52	10/11/17 19:23	1
1,1-Dichloroethene	ND		45	16	ug/Kg	☼	10/05/17 13:52	10/11/17 19:23	1
1,2,4-Trimethylbenzene	3100		45	13	ug/Kg	☼	10/05/17 13:52	10/11/17 19:23	1
1,3,5-Trimethylbenzene	1300		45	14	ug/Kg	☼	10/05/17 13:52	10/11/17 19:23	1
4-Isopropyltoluene	410		45	15	ug/Kg	☼	10/05/17 13:52	10/11/17 19:23	1
Benzene	8.6	J	45	8.5	ug/Kg	☼	10/05/17 13:52	10/11/17 19:23	1
Carbon tetrachloride	ND		45	11	ug/Kg	☼	10/05/17 13:52	10/11/17 19:23	1
cis-1,2-Dichloroethene	ND		45	12	ug/Kg	☼	10/05/17 13:52	10/11/17 19:23	1
Ethylbenzene	1600		45	13	ug/Kg	☼	10/05/17 13:52	10/11/17 19:23	1
Isopropylbenzene	540		45	6.7	ug/Kg	☼	10/05/17 13:52	10/11/17 19:23	1
Methyl tert-butyl ether	ND		45	17	ug/Kg	☼	10/05/17 13:52	10/11/17 19:23	1
Methylene Chloride	260	B	45	8.9	ug/Kg	☼	10/05/17 13:52	10/11/17 19:23	1
m-Xylene & p-Xylene	1600		90	25	ug/Kg	☼	10/05/17 13:52	10/11/17 19:23	1
Naphthalene	780		45	15	ug/Kg	☼	10/05/17 13:52	10/11/17 19:23	1
n-Butylbenzene	490		45	13	ug/Kg	☼	10/05/17 13:52	10/11/17 19:23	1
N-Propylbenzene	770		45	12	ug/Kg	☼	10/05/17 13:52	10/11/17 19:23	1
o-Xylene	120		45	5.8	ug/Kg	☼	10/05/17 13:52	10/11/17 19:23	1
sec-Butylbenzene	230		45	16	ug/Kg	☼	10/05/17 13:52	10/11/17 19:23	1
tert-Butylbenzene	13	J	45	12	ug/Kg	☼	10/05/17 13:52	10/11/17 19:23	1
Tetrachloroethene	ND		45	6.0	ug/Kg	☼	10/05/17 13:52	10/11/17 19:23	1
Toluene	60		45	12	ug/Kg	☼	10/05/17 13:52	10/11/17 19:23	1
Trichloroethene	ND		45	12	ug/Kg	☼	10/05/17 13:52	10/11/17 19:23	1
Vinyl chloride	ND		45	15	ug/Kg	☼	10/05/17 13:52	10/11/17 19:23	1
Xylenes, Total	1700		90	25	ug/Kg	☼	10/05/17 13:52	10/11/17 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		53 - 146	10/05/17 13:52	10/11/17 19:23	1
4-Bromofluorobenzene (Surr)	98		49 - 148	10/05/17 13:52	10/11/17 19:23	1
Toluene-d8 (Surr)	93		50 - 149	10/05/17 13:52	10/11/17 19:23	1
Dibromofluoromethane (Surr)	86		60 - 140	10/05/17 13:52	10/11/17 19:23	1

TestAmerica Buffalo

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-125290-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (53-146)	BFB (49-148)	TOL (50-149)	DBFM (60-140)
480-125290-1	SB-01 (7') 20171004	102	98	98	95
480-125290-2	SB-02 (7') 20171004	103	95	99	92
480-125290-3	SB-03 (7') 20171004	105	90	96	78
480-125290-3 - DL	SB-03 (7') 20171004	101	107	95	83
480-125290-4	SB-04 (7') 20171004	106	98	93	86
LCS 480-380402/1-A	Lab Control Sample	100	95	99	91
LCSD 480-380402/2-A	Lab Control Sample Dup	102	95	99	98
MB 480-380402/3-A	Method Blank	103	93	99	91

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-125290-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-380402/3-A

Matrix: Solid

Analysis Batch: 381208

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 380402

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	28	ug/Kg		10/05/17 13:52	10/11/17 14:05	1
1,1-Dichloroethene	ND		100	35	ug/Kg		10/05/17 13:52	10/11/17 14:05	1
1,2,4-Trimethylbenzene	ND		100	28	ug/Kg		10/05/17 13:52	10/11/17 14:05	1
1,3,5-Trimethylbenzene	ND		100	30	ug/Kg		10/05/17 13:52	10/11/17 14:05	1
4-Isopropyltoluene	ND		100	34	ug/Kg		10/05/17 13:52	10/11/17 14:05	1
Benzene	ND		100	19	ug/Kg		10/05/17 13:52	10/11/17 14:05	1
Carbon tetrachloride	ND		100	26	ug/Kg		10/05/17 13:52	10/11/17 14:05	1
cis-1,2-Dichloroethene	ND		100	28	ug/Kg		10/05/17 13:52	10/11/17 14:05	1
Ethylbenzene	ND		100	29	ug/Kg		10/05/17 13:52	10/11/17 14:05	1
Isopropylbenzene	ND		100	15	ug/Kg		10/05/17 13:52	10/11/17 14:05	1
Methyl tert-butyl ether	ND		100	38	ug/Kg		10/05/17 13:52	10/11/17 14:05	1
Methylene Chloride	151		100	20	ug/Kg		10/05/17 13:52	10/11/17 14:05	1
m-Xylene & p-Xylene	ND		200	55	ug/Kg		10/05/17 13:52	10/11/17 14:05	1
Naphthalene	ND		100	34	ug/Kg		10/05/17 13:52	10/11/17 14:05	1
n-Butylbenzene	ND		100	29	ug/Kg		10/05/17 13:52	10/11/17 14:05	1
N-Propylbenzene	ND		100	26	ug/Kg		10/05/17 13:52	10/11/17 14:05	1
o-Xylene	ND		100	13	ug/Kg		10/05/17 13:52	10/11/17 14:05	1
sec-Butylbenzene	ND		100	37	ug/Kg		10/05/17 13:52	10/11/17 14:05	1
tert-Butylbenzene	ND		100	28	ug/Kg		10/05/17 13:52	10/11/17 14:05	1
Tetrachloroethene	ND		100	13	ug/Kg		10/05/17 13:52	10/11/17 14:05	1
Toluene	ND		100	27	ug/Kg		10/05/17 13:52	10/11/17 14:05	1
Trichloroethene	ND		100	28	ug/Kg		10/05/17 13:52	10/11/17 14:05	1
Vinyl chloride	ND		100	34	ug/Kg		10/05/17 13:52	10/11/17 14:05	1
Xylenes, Total	ND		200	55	ug/Kg		10/05/17 13:52	10/11/17 14:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		53 - 146	10/05/17 13:52	10/11/17 14:05	1
4-Bromofluorobenzene (Surr)	93		49 - 148	10/05/17 13:52	10/11/17 14:05	1
Toluene-d8 (Surr)	99		50 - 149	10/05/17 13:52	10/11/17 14:05	1
Dibromofluoromethane (Surr)	91		60 - 140	10/05/17 13:52	10/11/17 14:05	1

Lab Sample ID: LCS 480-380402/1-A

Matrix: Solid

Analysis Batch: 381208

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 380402

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1,1-Trichloroethane	2500	2550		ug/Kg		102	68 - 130
1,1-Dichloroethene	2500	2440		ug/Kg		97	48 - 133
1,2,4-Trimethylbenzene	2500	2570		ug/Kg		103	77 - 127
1,3,5-Trimethylbenzene	2500	2690		ug/Kg		108	79 - 120
4-Isopropyltoluene	2500	2760		ug/Kg		110	80 - 120
Benzene	2500	2500		ug/Kg		100	77 - 125
Carbon tetrachloride	2500	2450		ug/Kg		98	54 - 135
cis-1,2-Dichloroethene	2500	2380		ug/Kg		95	79 - 124
Ethylbenzene	2500	2720		ug/Kg		109	78 - 124
Isopropylbenzene	2500	2590		ug/Kg		104	76 - 120
Methyl tert-butyl ether	2500	2290		ug/Kg		92	67 - 137
Methylene Chloride	2500	2420	B	ug/Kg		97	75 - 118

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-125290-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-380402/1-A
Matrix: Solid
Analysis Batch: 381208

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 380402

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	2500	2570		ug/Kg		103	77 - 125
Naphthalene	2500	2920		ug/Kg		117	65 - 142
n-Butylbenzene	2500	2690		ug/Kg		107	80 - 120
N-Propylbenzene	2500	2800		ug/Kg		112	76 - 120
o-Xylene	2500	2590		ug/Kg		104	80 - 124
sec-Butylbenzene	2500	2730		ug/Kg		109	79 - 120
tert-Butylbenzene	2500	2650		ug/Kg		106	78 - 120
Tetrachloroethene	2500	2670		ug/Kg		107	73 - 133
Toluene	2500	2500		ug/Kg		100	75 - 124
Trichloroethene	2500	2530		ug/Kg		101	75 - 131
Vinyl chloride	2500	1950		ug/Kg		78	59 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		53 - 146
4-Bromofluorobenzene (Surr)	95		49 - 148
Toluene-d8 (Surr)	99		50 - 149
Dibromofluoromethane (Surr)	91		60 - 140

Lab Sample ID: LCSD 480-380402/2-A
Matrix: Solid
Analysis Batch: 381208

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 380402

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
1,1,1-Trichloroethane	2500	2720		ug/Kg		109	68 - 130	6	20
1,1-Dichloroethene	2500	2270		ug/Kg		91	48 - 133	7	20
1,2,4-Trimethylbenzene	2500	2620		ug/Kg		105	77 - 127	2	20
1,3,5-Trimethylbenzene	2500	2650		ug/Kg		106	79 - 120	1	20
4-Isopropyltoluene	2500	2700		ug/Kg		108	80 - 120	2	20
Benzene	2500	2560		ug/Kg		102	77 - 125	2	20
Carbon tetrachloride	2500	2570		ug/Kg		103	54 - 135	4	20
cis-1,2-Dichloroethene	2500	2460		ug/Kg		98	79 - 124	3	20
Ethylbenzene	2500	2720		ug/Kg		109	78 - 124	0	20
Isopropylbenzene	2500	2630		ug/Kg		105	76 - 120	2	20
Methyl tert-butyl ether	2500	2410		ug/Kg		96	67 - 137	5	20
Methylene Chloride	2500	2600		ug/Kg		104	75 - 118	7	20
m-Xylene & p-Xylene	2500	2580		ug/Kg		103	77 - 125	0	20
Naphthalene	2500	3030		ug/Kg		121	65 - 142	4	20
n-Butylbenzene	2500	2720		ug/Kg		109	80 - 120	1	20
N-Propylbenzene	2500	2860		ug/Kg		114	76 - 120	2	20
o-Xylene	2500	2680		ug/Kg		107	80 - 124	3	20
sec-Butylbenzene	2500	2740		ug/Kg		110	79 - 120	0	20
tert-Butylbenzene	2500	2710		ug/Kg		109	78 - 120	3	20
Tetrachloroethene	2500	2820		ug/Kg		113	73 - 133	6	20
Toluene	2500	2590		ug/Kg		104	75 - 124	4	20
Trichloroethene	2500	2660		ug/Kg		106	75 - 131	5	20
Vinyl chloride	2500	2040		ug/Kg		82	59 - 124	5	20

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-125290-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-380402/2-A

Matrix: Solid

Analysis Batch: 381208

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 380402

<i>Surrogate</i>	<i>LCSD</i> <i>%Recovery</i>	<i>LCSD</i> <i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	102		53 - 146
4-Bromofluorobenzene (Surr)	95		49 - 148
Toluene-d8 (Surr)	99		50 - 149
Dibromofluoromethane (Surr)	98		60 - 140

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QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-125290-1

GC/MS VOA

Prep Batch: 380402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-125290-1	SB-01 (7') 20171004	Total/NA	Solid	5035A_H	
480-125290-2	SB-02 (7') 20171004	Total/NA	Solid	5035A_H	
480-125290-3	SB-03 (7') 20171004	Total/NA	Solid	5035A_H	
480-125290-3 - DL	SB-03 (7') 20171004	Total/NA	Solid	5035A_H	
480-125290-4	SB-04 (7') 20171004	Total/NA	Solid	5035A_H	
MB 480-380402/3-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-380402/1-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-380402/2-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	

Analysis Batch: 381208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-125290-1	SB-01 (7') 20171004	Total/NA	Solid	8260C	380402
480-125290-2	SB-02 (7') 20171004	Total/NA	Solid	8260C	380402
480-125290-3	SB-03 (7') 20171004	Total/NA	Solid	8260C	380402
480-125290-4	SB-04 (7') 20171004	Total/NA	Solid	8260C	380402
MB 480-380402/3-A	Method Blank	Total/NA	Solid	8260C	380402
LCS 480-380402/1-A	Lab Control Sample	Total/NA	Solid	8260C	380402
LCSD 480-380402/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	380402

Analysis Batch: 381932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-125290-3 - DL	SB-03 (7') 20171004	Total/NA	Solid	8260C	380402

General Chemistry

Analysis Batch: 380441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-125290-1	SB-01 (7') 20171004	Total/NA	Solid	Moisture	
480-125290-2	SB-02 (7') 20171004	Total/NA	Solid	Moisture	
480-125290-3	SB-03 (7') 20171004	Total/NA	Solid	Moisture	
480-125290-4	SB-04 (7') 20171004	Total/NA	Solid	Moisture	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-125290-1

Client Sample ID: SB-01 (7') 20171004

Date Collected: 10/04/17 09:30

Date Received: 10/04/17 17:23

Lab Sample ID: 480-125290-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	380441	10/05/17 16:12	CDC	TAL BUF

Client Sample ID: SB-01 (7') 20171004

Date Collected: 10/04/17 09:30

Date Received: 10/04/17 17:23

Lab Sample ID: 480-125290-1

Matrix: Solid

Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			380402	10/05/17 13:52	NEA	TAL BUF
Total/NA	Analysis	8260C		50	381208	10/11/17 18:02	ARS	TAL BUF

Client Sample ID: SB-02 (7') 20171004

Date Collected: 10/04/17 10:20

Date Received: 10/04/17 17:23

Lab Sample ID: 480-125290-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	380441	10/05/17 16:12	CDC	TAL BUF

Client Sample ID: SB-02 (7') 20171004

Date Collected: 10/04/17 10:20

Date Received: 10/04/17 17:23

Lab Sample ID: 480-125290-2

Matrix: Solid

Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			380402	10/05/17 13:52	NEA	TAL BUF
Total/NA	Analysis	8260C		50	381208	10/11/17 18:29	ARS	TAL BUF

Client Sample ID: SB-03 (7') 20171004

Date Collected: 10/04/17 11:30

Date Received: 10/04/17 17:23

Lab Sample ID: 480-125290-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	380441	10/05/17 16:12	CDC	TAL BUF

Client Sample ID: SB-03 (7') 20171004

Date Collected: 10/04/17 11:30

Date Received: 10/04/17 17:23

Lab Sample ID: 480-125290-3

Matrix: Solid

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			380402	10/05/17 13:52	NEA	TAL BUF
Total/NA	Analysis	8260C		1	381208	10/11/17 18:56	ARS	TAL BUF
Total/NA	Prep	5035A_H	DL		380402	10/05/17 13:52	NEA	TAL BUF
Total/NA	Analysis	8260C	DL	10	381932	10/16/17 14:41	LCH	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-125290-1

Client Sample ID: SB-04 (7') 20171004

Lab Sample ID: 480-125290-4

Date Collected: 10/04/17 12:30

Matrix: Solid

Date Received: 10/04/17 17:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	380441	10/05/17 16:12	CDC	TAL BUF

Client Sample ID: SB-04 (7') 20171004

Lab Sample ID: 480-125290-4

Date Collected: 10/04/17 12:30

Matrix: Solid

Date Received: 10/04/17 17:23

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			380402	10/05/17 13:52	NEA	TAL BUF
Total/NA	Analysis	8260C		1	381208	10/11/17 19:23	ARS	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-125290-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

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Method Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-125290-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-125290-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-125290-1	SB-01 (7') 20171004	Solid	10/04/17 09:30	10/04/17 17:23
480-125290-2	SB-02 (7') 20171004	Solid	10/04/17 10:20	10/04/17 17:23
480-125290-3	SB-03 (7') 20171004	Solid	10/04/17 11:30	10/04/17 17:23
480-125290-4	SB-04 (7') 20171004	Solid	10/04/17 12:30	10/04/17 17:23

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Chain of Custody Record



<p>Sample: <i>J. Brater</i> Lab PM: Deyo, Melissa L. Phone: <i>585-750-2606</i> E-Mail: melissa.deyo@testamericainc.com</p>		<p>480-125290 COC Page 1 of 1 Job #: <i>125290</i></p>			
<p>Client Information Company: ARCADIS U.S. Inc. Address: 50 Fountain Plaza Suite 600 City: Buffalo State, Zip: NY, 14202 Phone: <i>5 Day</i> PO #: 06105002.0010 WO #: <i>5 Day</i> Project #: 48014909 Flexo Transparent Site: <i>SSOWN</i> Email: Katherine.Clubine@arcadis-us.com</p>		<p>Analysis Requested Carbon tetrachloride 1,1-dichloroethane CIS-1,2-dichloroethane trichloroethane Methylene chloride Tetrahydroethene 1,1,1-trichloroethane Vinyl chloride</p>			
<p>Due Date Requested: TAT Requested (days): <i>5 Day</i></p>		<p>Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Y Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Y Special Instructions/Note: <i>Hold 2 Cool jars</i></p>			
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, A=air, T=liquid, AVAL)	Preservation Code
<i>SB-01(7) 20171004</i>	<i>10/4/17</i>	<i>9:30</i>	<i>G</i>	Solid	<i>WF</i>
<i>SB-02(7) 20171004</i>	<i>10/4/17</i>	<i>10:20</i>	<i>G</i>	Solid	<i>X</i>
<i>SB-03(7) 20171004</i>	<i>10/4/17</i>	<i>11:30</i>	<i>G</i>	Solid	<i>X</i>
<i>SB-04(7) 20171004</i>	<i>10/4/17</i>	<i>12:30</i>	<i>G</i>	Solid	<i>X</i>
				Solid	
				Solid	

Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: *2 kits returned* Date: *10/10/17*
 Relinquished by: *Jeff Scott / Jeff Byg (ARCADIS)* Date/Time: *10/11/17* *ARB*
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Received by: *Melissa Deyo* Date/Time: *10-4-17 17:00 J.A.* Company: _____
 Received by: _____ Date/Time: _____ Company: _____
 Received by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks: *2.7°C*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/Requirements:
Place All Cool jars on hold

Method of Shipment: _____
 Date/Time: _____ Company: _____

Custody Seal No.: _____
 Custody Seals Intact: Yes No

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-125290-1

Login Number: 125290

List Number: 1

Creator: Kinecki, Kenneth P

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
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 sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	FROZE 10/4/17 1930
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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Technical Report for

Arcadis

Flexo Transparent LLC, Seneca Street, Buffalo, NY

06105002.0010

SGS Accutest Job Number: JC48386

Sampling Date: 08/04/17

Report to:

Arcadis
50 Fountain Plaza #600
Buffalo, NY 14202
Katherine.Clubine@Arcadis.com

ATTN: Katherine Clubine

Total number of pages in report: **19**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Diane Komar 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (L-A-B L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

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Sample Summary

Arcadis

Job No: JC48386

Flexo Transparent LLC, Seneca Street, Buffalo, NY
 Project No: 06105002.0010

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JC48386-1	08/04/17	14:00 JB	08/05/17	SO	Soil	BOTTOM 9.5-10 20170804
JC48386-2	08/04/17	14:10 JB	08/05/17	SO	Soil	BOTTOM 10-10.5 20170804
JC48386-3	08/04/17	14:20 JB	08/05/17	SO	Soil	BOTTOM 10.5-11 20170804

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: JC48386
Account: Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY
Collected: 08/04/17

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

JC48386-1 BOTTOM 9.5-10 20170804

Benzene	0.44	0.37	0.079	ug/kg	SW846 8260C
n-Butylbenzene	0.61 J	1.5	0.27	ug/kg	SW846 8260C
sec-Butylbenzene	2.8	1.5	0.17	ug/kg	SW846 8260C
Isopropylbenzene	1.8	1.5	0.18	ug/kg	SW846 8260C
n-Propylbenzene	0.54 J	1.5	0.17	ug/kg	SW846 8260C

JC48386-2 BOTTOM 10-10.5 20170804

Benzene	0.34 J	0.42	0.089	ug/kg	SW846 8260C
n-Butylbenzene	4.2	1.7	0.30	ug/kg	SW846 8260C
sec-Butylbenzene	10.1	1.7	0.19	ug/kg	SW846 8260C
Isopropylbenzene	5.7	1.7	0.21	ug/kg	SW846 8260C
p-Isopropyltoluene	8.5	1.7	0.21	ug/kg	SW846 8260C
n-Propylbenzene	7.8	1.7	0.19	ug/kg	SW846 8260C
1,3,5-Trimethylbenzene	3.1	1.7	0.84	ug/kg	SW846 8260C

JC48386-3 BOTTOM 10.5-11 20170804

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	BOTTOM 9.5-10 20170804	Date Sampled:	08/04/17
Lab Sample ID:	JC48386-1	Date Received:	08/05/17
Matrix:	SO - Soil	Percent Solids:	85.4
Method:	SW846 8260C		
Project:	Flexo Transparent LLC, Seneca Street, Buffalo, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y174712.D	1	08/05/17 17:47	PS	n/a	n/a	VY7542
Run #2							

Run #1	Initial Weight
Run #1	7.9 g
Run #2	

VOA STARS List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.44	0.37	0.079	ug/kg	
104-51-8	n-Butylbenzene	0.61	1.5	0.27	ug/kg	J
135-98-8	sec-Butylbenzene	2.8	1.5	0.17	ug/kg	
98-06-6	tert-Butylbenzene	ND	1.5	0.33	ug/kg	
100-41-4	Ethylbenzene	ND	0.74	0.21	ug/kg	
98-82-8	Isopropylbenzene	1.8	1.5	0.18	ug/kg	
99-87-6	p-Isopropyltoluene	ND	1.5	0.19	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.74	0.32	ug/kg	
91-20-3	Naphthalene	ND	3.7	1.5	ug/kg	
103-65-1	n-Propylbenzene	0.54	1.5	0.17	ug/kg	J
108-88-3	Toluene	ND	0.74	0.41	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	1.5	0.74	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	1.5	0.74	ug/kg	
	m,p-Xylene	ND	0.74	0.41	ug/kg	
95-47-6	o-Xylene	ND	0.74	0.19	ug/kg	
1330-20-7	Xylene (total)	ND	0.74	0.19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		72-129%
17060-07-0	1,2-Dichloroethane-D4	95%		73-132%
2037-26-5	Toluene-D8	110%		80-120%
460-00-4	4-Bromofluorobenzene	109%		77-125%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BOTTOM 10-10.5 20170804**Lab Sample ID:** JC48386-2**Date Sampled:** 08/04/17**Matrix:** SO - Soil**Date Received:** 08/05/17**Method:** SW846 8260C**Percent Solids:** 84.3**Project:** Flexo Transparent LLC, Seneca Street, Buffalo, NY

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	Y174710.D	1	08/05/17 16:51	PS	n/a	n/a	VY7542

Initial Weight

Run #1 7.1 g

Run #2

VOA STARS List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.34	0.42	0.089	ug/kg	J
104-51-8	n-Butylbenzene	4.2	1.7	0.30	ug/kg	
135-98-8	sec-Butylbenzene	10.1	1.7	0.19	ug/kg	
98-06-6	tert-Butylbenzene	ND	1.7	0.37	ug/kg	
100-41-4	Ethylbenzene	ND	0.84	0.24	ug/kg	
98-82-8	Isopropylbenzene	5.7	1.7	0.21	ug/kg	
99-87-6	p-Isopropyltoluene	8.5	1.7	0.21	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.84	0.36	ug/kg	
91-20-3	Naphthalene	ND	4.2	1.7	ug/kg	
103-65-1	n-Propylbenzene	7.8	1.7	0.19	ug/kg	
108-88-3	Toluene	ND	0.84	0.46	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	1.7	0.84	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	3.1	1.7	0.84	ug/kg	
	m,p-Xylene	ND	0.84	0.46	ug/kg	
95-47-6	o-Xylene	ND	0.84	0.21	ug/kg	
1330-20-7	Xylene (total)	ND	0.84	0.21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		72-129%
17060-07-0	1,2-Dichloroethane-D4	103%		73-132%
2037-26-5	Toluene-D8	112%		80-120%
460-00-4	4-Bromofluorobenzene	118%		77-125%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BOTTOM 10.5-11 20170804	Date Sampled:	08/04/17
Lab Sample ID:	JC48386-3	Date Received:	08/05/17
Matrix:	SO - Soil	Percent Solids:	87.2
Project:	Flexo Transparent LLC, Seneca Street, Buffalo, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	87.2		%	1	08/05/17 18:10	TZW	SM2540 G-97

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



SO_{SUL}
ACCUTEST

CHAIN OF CUSTODY

SGS Accutest - Dayton
2255 Route 150, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-1499 3483
www.accutest.com

PCS-EN Tracking # 7350 6932 3956
SGS Accutest Order # JC 48386

Client / Reporting Information		Project Information				Requested Analysis (see TEST CODE sheet)				Matrix Codes			
Company Name ARCADES		Project Name Flxco Transparent LLC				V&B-60-5LO AB&R-20-5LO PCB-Total Metals-Total				EW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil S - Sludge SSC - Sediment CI - CI LC - Other Loc. d AR - AR SC - Other Solid TP - TP FS - Field Blank EB - Equipment Blank RB - Rinsate Blank TB - To Be Blank			
Street Address 50 Fountain Plaza		Street Seneca St											
City, State, Zip Buffalo, NY 14204		City, State, Zip Buffalo, NY											
Project Contact Kate Clubine		Project # 06105002.0010											
Phone # 716-667-4637		Client Purchase Order #											
Project Manager S. Bruter		Project Manager Kate Clubine				Billing Information (if different from Report to) Company Name				LAB USE ONLY			
Field ID / Point of Collection		MECHD / Lab		Date		Time		Sample #		# of bottles		<input type="checkbox"/> PCB <input type="checkbox"/> METALS <input type="checkbox"/> VOCs <input type="checkbox"/> SVOCs <input type="checkbox"/> INORGANIC <input type="checkbox"/> PHENOL <input type="checkbox"/> OTHER	
1 Bottom 9.5-10 20170808		4321/1110		8-9-17		19:00		JB 50		6		3 2 1	
2 Bottom 10-10.5 20170808		4321/1110		8-9-17		19:10		JB 50		6		3 2 1	
3 Bottom 10.5-11 20170808		4321/1110		8-9-17		19:20		JB 50		6		3 2 1	

D.I. slurry voc vials frozen storage
Date: 8/5/17 time: 12:45 initials: JB

Turnaround Time (Business Days)		Data Deliverable Information				Comments / Special Instructions	
<input type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day RUSH <input type="checkbox"/> 1 Day RUSH <input checked="" type="checkbox"/> 1 Day RUSH <input type="checkbox"/> other		<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT3 (Level 3-4) <input type="checkbox"/> NJ Reduced <input type="checkbox"/> Commercial "C" <input type="checkbox"/> NJ Date of Known Quality Protocol Reporting				<input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EBD Format <input type="checkbox"/> Other	
Approved By (SGS Accutest PHL) / Date: 24 hr TAT Director		Commercial "A" = Results Only, Comments: "B" = Results + QC Summary "C" = Results + Results + QC Summary + Parker Sew data				See Attached Notes INITIAL ASSESSMENT JB DOM LABEL VERIFICATION JB	
Sample Custody must be documented below each time samples change possession, including courier delivery.							
Requested by: ARCADES		Received By: FX		Retransmitted By: FX		Date Time: 9:50	
Date Time: 8-9-17		Received By: 3		Retransmitted By: 4		Date Time: 8/5/17	
Retransmitted by: 5		Received By: 5		Custody Seal # 72		On Ice <input checked="" type="checkbox"/> Cooler Temp. 2.1°C	

Form: 50486-C10 Rev Date 3/12/16



SGS Accutest Sample Receipt Summary

Job Number: JC48386

Client: _____

Project: _____

Date / Time Received: 8/5/2017 9:50:00 AM

Delivery Method: _____

Airbill #'s: _____

Cooler Temps (Raw Measured) °C: Cooler 1: (2.1);

Cooler Temps (Corrected) °C: Cooler 1: (3.4);

<u>Cooler Security</u>	<u>Y or N</u>		<u>Y or N</u>	
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/> <input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y or N</u>	
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Cooler temp verification:	<u>IR Gun</u>	
3. Cooler media:	<u>Ice (Bag)</u>	
4. No. Coolers:	<u>1</u>	

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Trip Blank listed on COC:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Samples preserved properly:	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
4. VOCs headspace free:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

<u>Sample Integrity - Documentation</u>	<u>Y or N</u>	
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y or N</u>	
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Condition of sample:	<u>Intact</u>	

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
2. Bottles received for unspecified tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
4. Compositing instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>

Comments

SM089-02
Rev. Date 12/1/16

JC48386: Chain of Custody

Page 2 of 2

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GC/MS Volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC48386
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY7542-MB	Y174698.D	1	08/05/17	PS	n/a	n/a	VY7542

The QC reported here applies to the following samples:

Method: SW846 8260C

JC48386-1, JC48386-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.11	ug/kg	
104-51-8	n-Butylbenzene	ND	2.0	0.36	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.0	0.23	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.0	0.44	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	0.25	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2.0	0.26	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
103-65-1	n-Propylbenzene	ND	2.0	0.23	ug/kg	
108-88-3	Toluene	ND	1.0	0.55	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/kg	
	m,p-Xylene	ND	1.0	0.55	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.25	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.25	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	103%	72-129%
17060-07-0	1,2-Dichloroethane-D4	101%	73-132%
2037-26-5	Toluene-D8	104%	80-120%
460-00-4	4-Bromofluorobenzene	107%	77-125%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Blank Spike Summary

Job Number: JC48386
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY7542-BS	Y174699.D	1	08/05/17	PS	n/a	n/a	VY7542

The QC reported here applies to the following samples:

Method: SW846 8260C

JC48386-1, JC48386-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	46.5	93	76-117
104-51-8	n-Butylbenzene	50	52.2	104	72-127
135-98-8	sec-Butylbenzene	50	50.4	101	73-128
98-06-6	tert-Butylbenzene	50	50.1	100	75-127
100-41-4	Ethylbenzene	50	45.9	92	77-118
98-82-8	Isopropylbenzene	50	45.7	91	72-129
99-87-6	p-Isopropyltoluene	50	49.1	98	74-129
1634-04-4	Methyl Tert Butyl Ether	50	44.4	89	73-119
91-20-3	Naphthalene	50	51.5	103	70-130
103-65-1	n-Propylbenzene	50	48.1	96	75-126
108-88-3	Toluene	50	47.4	95	76-118
95-63-6	1,2,4-Trimethylbenzene	50	48.1	96	75-123
108-67-8	1,3,5-Trimethylbenzene	50	47.9	96	73-125
	m,p-Xylene	100	90.5	91	79-119
95-47-6	o-Xylene	50	45.9	92	77-122
1330-20-7	Xylene (total)	150	136	91	79-120

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	108%	72-129%
17060-07-0	1,2-Dichloroethane-D4	103%	73-132%
2037-26-5	Toluene-D8	104%	80-120%
460-00-4	4-Bromofluorobenzene	103%	77-125%

* = Outside of Control Limits.

5.2.1
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Matrix Spike Summary

Job Number: JC48386
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC48275-7MS	Y174705.D	1	08/05/17	PS	n/a	n/a	VY7542
JC48275-7	Y174703.D	1	08/05/17	PS	n/a	n/a	VY7542

The QC reported here applies to the following samples:

Method: SW846 8260C

JC48386-1, JC48386-2

CAS No.	Compound	JC48275-7 ug/kg	Spike Q	MS ug/kg	MS %	Limits
71-43-2	Benzene	ND	52.4	46.3	88	51-129
104-51-8	n-Butylbenzene	ND	52.4	52.0	99	14-154
135-98-8	sec-Butylbenzene	ND	52.4	51.1	98	25-151
98-06-6	tert-Butylbenzene	ND	52.4	50.8	97	32-150
100-41-4	Ethylbenzene	ND	52.4	46.3	88	40-136
98-82-8	Isopropylbenzene	ND	52.4	46.2	88	37-145
99-87-6	p-Isopropyltoluene	ND	52.4	49.7	95	26-151
1634-04-4	Methyl Tert Butyl Ether	ND	52.4	37.9	72	55-119
91-20-3	Naphthalene	ND	52.4	42.5	81	16-149
103-65-1	n-Propylbenzene	ND	52.4	49.6	95	29-150
108-88-3	Toluene	ND	52.4	47.6	91	46-131
95-63-6	1,2,4-Trimethylbenzene	ND	52.4	48.9	93	31-146
108-67-8	1,3,5-Trimethylbenzene	ND	52.4	48.8	93	33-144
	m,p-Xylene	ND	105	92.1	88	39-138
95-47-6	o-Xylene	ND	52.4	46.0	88	42-139
1330-20-7	Xylene (total)	ND	157	138	88	40-139

CAS No.	Surrogate Recoveries	MS	JC48275-7	Limits
1868-53-7	Dibromofluoromethane	102%	104%	72-129%
17060-07-0	1,2-Dichloroethane-D4	92%	96%	73-132%
2037-26-5	Toluene-D8	105%	105%	80-120%
460-00-4	4-Bromofluorobenzene	103%	107%	77-125%

* = Outside of Control Limits.

5.3.1
 5

Duplicate Summary

Job Number: JC48386
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC48275-6DUP	Y174704.D	1	08/05/17	PS	n/a	n/a	VY7542
JC48275-6	Y174702.D	1	08/05/17	PS	n/a	n/a	VY7542

The QC reported here applies to the following samples:

Method: SW846 8260C

JC48386-1, JC48386-2

CAS No.	Compound	JC48275-6 ug/kg	DUP Q	ug/kg	Q	RPD	Limits
71-43-2	Benzene	2.5		4.9		65* a	30
104-51-8	n-Butylbenzene	ND		ND		nc	30
135-98-8	sec-Butylbenzene	ND		ND		nc	30
98-06-6	tert-Butylbenzene	ND		ND		nc	30
100-41-4	Ethylbenzene	3.0		4.6		42* a	30
98-82-8	Isopropylbenzene	1.4	J	2.3		49* a	11
99-87-6	p-Isopropyltoluene	ND		ND		nc	30
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	30
91-20-3	Naphthalene	5.5		3.6	J	42* a	30
103-65-1	n-Propylbenzene	2.5		3.3		28	30
108-88-3	Toluene	ND		ND		nc	30
95-63-6	1,2,4-Trimethylbenzene	6.0		7.5		22	30
108-67-8	1,3,5-Trimethylbenzene	2.5		3.1		21	30
	m,p-Xylene	14.8		21.2		36* a	30
95-47-6	o-Xylene	13.6		18.0		28	30
1330-20-7	Xylene (total)	28.4		39.2		32* a	30

CAS No.	Surrogate Recoveries	DUP	JC48275-6	Limits
1868-53-7	Dibromofluoromethane	107%	106%	72-129%
17060-07-0	1,2-Dichloroethane-D4	102%	102%	73-132%
2037-26-5	Toluene-D8	105%	104%	80-120%
460-00-4	4-Bromofluorobenzene	106%	107%	77-125%

(a) High RPD due to possible sample nonhomogeneity.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JC48386
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample: VY7515-BFB	Injection Date: 07/11/17
Lab File ID: Y173952.D	Injection Time: 12:51
Instrument ID: GCMSY	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	15687	18.9	Pass
75	30.0 - 60.0% of mass 95	40602	49.0	Pass
95	Base peak, 100% relative abundance	82890	100.0	Pass
96	5.0 - 9.0% of mass 95	5816	7.02	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	82154	99.1	Pass
175	5.0 - 9.0% of mass 174	6905	8.33 (8.40) ^a	Pass
176	95.0 - 101.0% of mass 174	81026	97.8 (98.6) ^a	Pass
177	5.0 - 9.0% of mass 176	5363	6.47 (6.62) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VY7515-IC7515	Y173953.D	07/11/17	13:23	00:32	Initial cal 0.2
VY7515-IC7515	Y173954.D	07/11/17	13:52	01:01	Initial cal 0.5
VY7515-IC7515	Y173955.D	07/11/17	14:21	01:30	Initial cal 1
VY7515-IC7515	Y173956.D	07/11/17	14:49	01:58	Initial cal 2
VY7515-IC7515	Y173957.D	07/11/17	15:18	02:27	Initial cal 4
VY7515-IC7515	Y173958.D	07/11/17	15:46	02:55	Initial cal 8
VY7515-IC7515	Y173959.D	07/11/17	16:15	03:24	Initial cal 20
VY7515-ICC7515	Y173960.D	07/11/17	16:44	03:53	Initial cal 50
VY7515-IC7515	Y173961.D	07/11/17	17:12	04:21	Initial cal 100
VY7515-IC7515	Y173962.D	07/11/17	17:41	04:50	Initial cal 200
VY7515-ICV7515	Y173965.D	07/11/17	19:07	06:16	Initial cal verification 50
VY7515-ICV7515	Y173966.D	07/11/17	19:36	06:45	Initial cal verification 50

5.5.1
 5

Instrument Performance Check (BFB)

Job Number: JC48386
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample: VY7542-BFB	Injection Date: 08/05/17
Lab File ID: Y174697A.D	Injection Time: 11:15
Instrument ID: GCMSY	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	19981	18.4	Pass
75	30.0 - 60.0% of mass 95	52027	47.9	Pass
95	Base peak, 100% relative abundance	108595	100.0	Pass
96	5.0 - 9.0% of mass 95	7168	6.60	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	105611	97.3	Pass
175	5.0 - 9.0% of mass 174	8145	7.50 (7.71) ^a	Pass
176	95.0 - 101.0% of mass 174	104347	96.1 (98.8) ^a	Pass
177	5.0 - 9.0% of mass 176	6765	6.23 (6.48) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VY7542-CC7515	Y174697.D	08/05/17	11:15	00:00	Continuing cal 20
VY7542-MB	Y174698.D	08/05/17	12:16	01:01	Method Blank
VY7541-MB2	Y174698.D	08/05/17	12:16	01:01	Method Blank
VY7541-BS2	Y174699.D	08/05/17	12:50	01:35	Blank Spike
VY7542-BS	Y174699.D	08/05/17	12:50	01:35	Blank Spike
JC48288-3MS	Y174700.D	08/05/17	13:34	02:19	Matrix Spike
JC48275-6	Y174702.D	08/05/17	14:30	03:15	(used for QC only; not part of job JC48386)
JC48275-7	Y174703.D	08/05/17	14:58	03:43	(used for QC only; not part of job JC48386)
JC48275-6DUP	Y174704.D	08/05/17	15:26	04:11	Duplicate
JC48275-7MS	Y174705.D	08/05/17	15:54	04:39	Matrix Spike
JC48386-2	Y174710.D	08/05/17	16:51	05:36	BOTTOM 10-10.5 20170804
JC48386-1	Y174712.D	08/05/17	17:47	06:32	BOTTOM 9.5-10 20170804

5.5.2
5

Volatile Surrogate Recovery Summary

Job Number: JC48386

Account: AGMNYB Arcadis

Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Method: SW846 8260C

Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JC48386-1	Y174712.D	104	95	110	109
JC48386-2	Y174710.D	107	103	112	118
JC48275-6DUP	Y174704.D	107	102	105	106
JC48275-7MS	Y174705.D	102	92	105	103
VY7542-BS	Y174699.D	108	103	104	103
VY7542-MB	Y174698.D	103	101	104	107

Surrogate Compounds

Recovery Limits

S1 = Dibromofluoromethane	72-129%
S2 = 1,2-Dichloroethane-D4	73-132%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	77-125%

5.6.1

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ATTACHMENT 3

Waste Documentation



Flexo Transparent, LLC Waste Summary

Load	Date	Landfill	Landfill Ticket	Manifest	Profile	Truck	Material	Tons
1	9/6/2017	WM Chaffee	527469	5582680	117997NY	33	Petroleum Impacted Soil	22.27
2	9/6/2017	WM Chaffee	527470	5582681	117997NY	37	Petroleum Impacted Soil	24.96
3	9/6/2017	WM Chaffee	527473	5582682	117997NY	13	Petroleum Impacted Soil	25.12
4	9/6/2017	WM Chaffee	527474	5582683	117997NY	111	Petroleum Impacted Soil	25.07
5	9/6/2017	WM Chaffee	527477	5582684	117997NY	105	Petroleum Impacted Soil	24.21
6	9/6/2017	WM Chaffee	527481	5582685	117997NY	23	Petroleum Impacted Soil	27.01
7	9/6/2017	WM Chaffee	527486	5582686	117997NY	22	Petroleum Impacted Soil	25.26
8	9/6/2017	WM Chaffee	527487	5582687	117997NY	4	Petroleum Impacted Soil	21.47
9	9/6/2017	WM Chaffee	527491	5582688	117997NY	5	Petroleum Impacted Soil	23.72
10	9/6/2017	WM Chaffee	527508	5582689	117997NY	33	Petroleum Impacted Soil	29.11
11	9/6/2017	WM Chaffee	527513	5582690	117997NY	37	Petroleum Impacted Soil	29.39
12	9/6/2017	WM Chaffee	527517	5582691	117997NY	13	Petroleum Impacted Soil	28.02
13	9/6/2017	WM Chaffee	527520	5582692	117997NY	111	Petroleum Impacted Soil	20.79
14	9/6/2017	WM Chaffee	527521	5582693	117997NY	105	Petroleum Impacted Soil	22.18
15	9/6/2017	WM Chaffee	527524	5582694	117997NY	23	Petroleum Impacted Soil	19.11
16	9/6/2017	WM Chaffee	527526	5582695	117997NY	22	Petroleum Impacted Soil	21.42
17	9/6/2017	WM Chaffee	527532	13920	117997NY	4	Petroleum Impacted Soil	16.46
18	9/6/2017	WM Chaffee	527536	13921	117997NY	5	Petroleum Impacted Soil	16.56
19	9/6/2017	WM Chaffee	527542	13922	117997NY	64	Petroleum Impacted Soil	22.81
20	9/6/2017	WM Chaffee	527545	13923	117997NY	86	Petroleum Impacted Soil	21.96
21	9/6/2017	WM Chaffee	527546	13924	117997NY	67	Petroleum Impacted Soil	18.84
22	9/6/2017	WM Chaffee	527548	13925	117997NY	33	Petroleum Impacted Soil	19.55
23	9/6/2017	WM Chaffee	527554	13926	117997NY	37	Petroleum Impacted Soil	21.82
24	9/6/2017	WM Chaffee	527561	13927	117997NY	13	Petroleum Impacted Soil	21.61
25	9/6/2017	WM Chaffee	527572	13929	117997NY	105	Petroleum Impacted Soil	21.55
26	9/6/2017	WM Chaffee	527573	13930	117997NY	23	Petroleum Impacted Soil	22.53
27	9/6/2017	WM Chaffee	527574	13931	117997NY	22	Petroleum Impacted Soil	25.21
28	9/6/2017	WM Chaffee	527578	13932	117997NY	4	Petroleum Impacted Soil	22.91
29	9/6/2017	WM Chaffee	527585	13933	117997NY	64	Petroleum Impacted Soil	22.82
30	9/6/2017	WM Chaffee	527590	13934	117997NY	5	Petroleum Impacted Soil	22.83
31	9/6/2017	WM Chaffee	527595	13935	117997NY	86	Petroleum Impacted Soil	22.71
32	9/6/2017	WM Chaffee	527597	13936	117997NY	67	Petroleum Impacted Soil	28.6
33	9/6/2017	WM Chaffee	527602	13937	117997NY	33	Petroleum Impacted Soil	26.78
34	9/6/2017	WM Chaffee	527605	13938	117997NY	37	Petroleum Impacted Soil	26.4
35	9/6/2017	WM Chaffee	527607	13928	117997NY	111	Petroleum Impacted Soil	23.12
36	9/6/2017	WM Chaffee	527608	13939	117997NY	13	Petroleum Impacted Soil	25.78
37	9/6/2017	WM Chaffee	527623	13940	117997NY	105	Petroleum Impacted Soil	23.41
38	9/6/2017	WM Chaffee	527630	13941	117997NY	23	Petroleum Impacted Soil	25.15
39	9/6/2017	WM Chaffee	527631	13942	117997NY	22	Petroleum Impacted Soil	23.92
40	9/6/2017	WM Chaffee	527637	13943	117997NY	4	Petroleum Impacted Soil	22.65
41	9/7/2017	WM Chaffee	527688	13944	117997NY	13	Petroleum Impacted Soil	21.5
42	9/7/2017	WM Chaffee	527691	13945	117997NY	23	Petroleum Impacted Soil	17.6
43	9/7/2017	WM Chaffee	527694	13946	117997NY	22	Petroleum Impacted Soil	20.31
44	9/7/2017	WM Chaffee	527726	13947	117997NY	13	Petroleum Impacted Soil	26.05
45	9/7/2017	WM Chaffee	527731	13948	117997NY	23	Petroleum Impacted Soil	20.1
46	9/7/2017	WM Chaffee	527737	13949	117997NY	22	Petroleum Impacted Soil	22.34
47	9/7/2017	WM Chaffee	527770	13950	117997NY	13	Petroleum Impacted Soil	24.75
48	9/7/2017	WM Chaffee	527780	13951	117997NY	23	Petroleum Impacted Soil	22.06
49	9/7/2017	WM Chaffee	527788	13952	117997NY	22	Petroleum Impacted Soil	22.92

Total 1132.72

Technical Report for

Arcadis

Flexo Transparent LLC, Seneca Street, Buffalo, NY

06105002.0010

SGS Accutest Job Number: JC48729

Sampling Date: 08/09/17

Report to:

Arcadis
50 Fountain Plaza #600
Buffalo, NY 14202
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ATTN: Katherine Clubine

Total number of pages in report: **60**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Diane Komar 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (L-A-B L2248)

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Test results relate only to samples analyzed.

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Sample Summary

Arcadis

Job No: JC48729

Flexo Transparent LLC, Seneca Street, Buffalo, NY
Project No: 06105002.0010

Sample Number	Collected		Matrix			Client Sample ID
	Date	Time By	Received	Code	Type	
JC48729-1	08/09/17	14:30 JB	08/10/17	SO	Soil	WC-20 20170804

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: JC48729
Account: Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY
Collected: 08/09/17

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

JC48729-1 WC-20 20170804

Arsenic		5.1	2.3		mg/kg	SW846 6010C
Barium		103	23		mg/kg	SW846 6010C
Chromium		23.6	1.2		mg/kg	SW846 6010C
Lead		12.1	2.3		mg/kg	SW846 6010C
Corrosivity as pH ^a		7.98			su	SW846 9045D
Ignitability (Flashpoint)		> 200			Deg. F	SW846 1010A/ASTM D93

(a) NC 7.98

Sample Results

Report of Analysis

Report of Analysis

3.1
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Client Sample ID: WC-20 20170804	
Lab Sample ID: JC48729-1	Date Sampled: 08/09/17
Matrix: SO - Soil	Date Received: 08/10/17
Method: SW846 8260C SW846 1311	Percent Solids: 84.8
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2V43974.D	5	08/14/17 11:16	EH	08/11/17	GP7111	V2V1738
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.0025	0.00070	mg/l	
78-93-3	2-Butanone (MEK)	ND	D035	200	0.10	0.0095	mg/l	
56-23-5	Carbon tetrachloride	ND	D019	0.50	0.0050	0.0027	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.0050	0.00087	mg/l	
67-66-3	Chloroform	ND	D022	6.0	0.0050	0.0011	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.0050	0.0011	mg/l	
107-06-2	1,2-Dichloroethane	ND	D028	0.50	0.0050	0.0020	mg/l	
75-35-4	1,1-Dichloroethene	ND	D029	0.70	0.0050	0.0010	mg/l	
127-18-4	Tetrachloroethene	ND	D039	0.70	0.0050	0.0012	mg/l	
79-01-6	Trichloroethene	ND	D040	0.50	0.0050	0.0013	mg/l	
75-01-4	Vinyl chloride	ND	D043	0.20	0.0050	0.0016	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		76-120%
17060-07-0	1,2-Dichloroethane-D4	97%		64-135%
2037-26-5	Toluene-D8	93%		76-117%
460-00-4	4-Bromofluorobenzene	99%		72-122%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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3

Client Sample ID: WC-20 20170804	
Lab Sample ID: JC48729-1	Date Sampled: 08/09/17
Matrix: SO - Soil	Date Received: 08/10/17
Method: SW846 8270D SW846 3510C	Percent Solids: 84.8
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P40360.D	1	08/14/17 03:37	CS	08/13/17 08:00	OP5281	E6P1859
Run #2							

Run #	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.020	0.0089	mg/l	
	3&4-Methylphenol	ND	D024	200	0.020	0.0088	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.10	0.014	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.050	0.013	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.050	0.0092	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.020	0.0017	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.020	0.0055	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.020	0.0033	mg/l	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.010	0.0049	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	0.0039	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.020	0.0064	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.020	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		14-88%
4165-62-2	Phenol-d5	33%		10-110%
118-79-6	2,4,6-Tribromophenol	100%		39-149%
4165-60-0	Nitrobenzene-d5	89%		32-128%
321-60-8	2-Fluorobiphenyl	71%		35-119%
1718-51-0	Terphenyl-d14	98%		10-126%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

3.1
3

Client Sample ID: WC-20 20170804		Date Sampled: 08/09/17
Lab Sample ID: JC48729-1		Date Received: 08/10/17
Matrix: SO - Soil		Percent Solids: 84.8
Method: SW846 8082A SW846 3546		
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX214236.D	1	08/14/17 19:33	JR	08/12/17 08:15	OP5257	GXX6094
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	30	ug/kg	
11104-28-2	Aroclor 1221	ND	38	16	ug/kg	
11141-16-5	Aroclor 1232	ND	38	23	ug/kg	
53469-21-9	Aroclor 1242	ND	38	19	ug/kg	
12672-29-6	Aroclor 1248	ND	38	22	ug/kg	
11097-69-1	Aroclor 1254	ND	38	17	ug/kg	
11096-82-5	Aroclor 1260	ND	38	28	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	97%		24-152%
877-09-8	Tetrachloro-m-xylene	100%		24-152%
2051-24-3	Decachlorobiphenyl	90%		10-166%
2051-24-3	Decachlorobiphenyl	95%		10-166%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: WC-20 20170804	Date Sampled: 08/09/17
Lab Sample ID: JC48729-1	Date Received: 08/10/17
Matrix: SO - Soil	Percent Solids: 84.8
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	5.1	2.3	mg/kg	1	08/11/17	08/13/17 GT	SW846 6010C ²	SW846 3050B ³
Barium	103	23	mg/kg	1	08/11/17	08/13/17 GT	SW846 6010C ²	SW846 3050B ³
Cadmium	< 0.58	0.58	mg/kg	1	08/11/17	08/13/17 GT	SW846 6010C ²	SW846 3050B ³
Chromium	23.6	1.2	mg/kg	1	08/11/17	08/13/17 GT	SW846 6010C ²	SW846 3050B ³
Lead	12.1	2.3	mg/kg	1	08/11/17	08/13/17 GT	SW846 6010C ²	SW846 3050B ³
Mercury	< 0.036	0.036	mg/kg	1	08/11/17	08/11/17 JPM	SW846 7471B ¹	SW846 7471B ⁴
Selenium	< 2.3	2.3	mg/kg	1	08/11/17	08/13/17 GT	SW846 6010C ²	SW846 3050B ³
Silver	< 0.58	0.58	mg/kg	1	08/11/17	08/13/17 GT	SW846 6010C ²	SW846 3050B ³

- (1) Instrument QC Batch: MA42583
- (2) Instrument QC Batch: MA42596
- (3) Prep QC Batch: MP2382
- (4) Prep QC Batch: MP2389

RL = Reporting Limit

Report of Analysis

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Client Sample ID: WC-20 20170804	Date Sampled: 08/09/17
Lab Sample ID: JC48729-1	Date Received: 08/10/17
Matrix: SO - Soil	Percent Solids: 84.8
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH ^a	7.98		su	1	08/11/17 12:10	AC	SW846 9045D
Cyanide Reactivity	< 11	11	mg/kg	1	08/14/17 11:11	BM	SW846 CHAP7/9012 B
Ignitability (Flashpoint)	> 200		Deg. F	1	08/11/17 16:15	AC	SW846 1010A/ASTM D93
Paint Filter Test ^b	< 0.50	0.50	ml/100g	1	08/11/17 11:30	AC	SW846 9095/9095B
Solids, Percent	84.8		%	1	08/11/17 10:00	LV	SM2540 G-97
Sulfide Reactivity	< 110	110	mg/kg	1	08/14/17 12:56	MP	SW846 CHAP7/9034

(a) NC 7.98

(b) No free liquids.

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Parameter Certification Exceptions

Job Number: JC48729
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

The following parameters included in this report are exceptions to NELAC certification. The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Cyanide Reactivity		SW846 CHAP7/9012 B	SO	Accutest is not certified for this parameter. ^a
Sulfide Reactivity		SW846 CHAP7/9034	SO	Accutest is not certified for this parameter. ^a

(a) Reactivity analyzed following SW846 Chapter 7 is no longer recognized by regulatory agencies. Use of results should be verified through the program to which the data is being submitted.

Certification exceptions shown are based on the New Jersey DEP certifications. Applicability in other states may vary. Please contact your laboratory representative if additional information is required for a specific regulatory program.

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ACCUTEST

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CHAIN OF CUSTODY

PAGE 1 OF 1

SGS Accutest of New England
50 D'Angelo Drive, Building One Marlborough, MA 01752
TEL: 508-481-6300 FAX: 508-481-9783
www.accutest.com

Form fields: FEE EA Tracking #, Biller Order Control #, SGS Account Order #, SGS Account Job # (JC48729)

Main project information section including Client Name (ARCADIS), Project Name (Flexo Transport LLC), Address (50 Fountain Plaza, Buffalo NY 14202), Project Manager (Kate Clubine), and a table for sample collection with columns for Field ID, Date, Time, Sample ID, Volume, and Matrix Codes.

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4

Data Deliverable Information section with checkboxes for turnaround times (Standard, Rush, Emergency) and delivery options (Commercial A/B, Full T1, etc.).

Chain of Custody table with columns for Retreached by, Date Time, Received By, and Custody Seal #, showing a sequence of handoffs from Jeff Brown to Fed Ex.

SGS Accutest Sample Receipt Summary

Job Number: JC48729

Client: _____

Project: _____

Date / Time Received: 8/10/2017 6:38:00 PM

Delivery Method: _____

Airbill #s: _____

Cooler Temps (Raw Measured) °C: Cooler 1: (2.8);

Cooler Temps (Corrected) °C: Cooler 1: (2.1);

<u>Cooler Security</u>	<u>Y</u>	<u>or</u>	<u>N</u>		<u>Y</u>	<u>or</u>	<u>N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:	Intact		

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

SM089-02
Rev. Date 12/1/16

JC48729: Chain of Custody

Page 2 of 2

4.2
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GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC48729

Account: AGMNYB Arcadis

Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2V1738-MB	2V43970.D	1	08/14/17	EH	n/a	n/a	V2V1738

The QC reported here applies to the following samples:

Method: SW846 8260C

JC48729-1

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.14	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	103%	76-120%
17060-07-0	1,2-Dichloroethane-D4	92%	64-135%
2037-26-5	Toluene-D8	93%	76-117%
460-00-4	4-Bromofluorobenzene	98%	72-122%

Leachate Blank Summary

Job Number: JC48729
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GP7111-LB19	2V43973.D	5	08/14/17	EH	08/11/17	GP7111	V2V1738

The QC reported here applies to the following samples:

Method: SW846 8260C

JC48729-1

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.5	0.70	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	9.5	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.7	ug/l	
108-90-7	Chlorobenzene	ND	5.0	0.87	ug/l	
67-66-3	Chloroform	ND	5.0	1.1	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.1	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	1.2	ug/l	
79-01-6	Trichloroethene	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	5.0	1.6	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	105%	76-120%
17060-07-0	1,2-Dichloroethane-D4	95%	64-135%
2037-26-5	Toluene-D8	93%	76-117%
460-00-4	4-Bromofluorobenzene	96%	72-122%

5.2.1
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Blank Spike Summary

Job Number: JC48729
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2V1738-BS	2V43971.D	1	08/14/17	EH	n/a	n/a	V2V1738

The QC reported here applies to the following samples:

Method: SW846 8260C

JC48729-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	46.1	92	75-122
78-93-3	2-Butanone (MEK)	200	169	85	64-130
56-23-5	Carbon tetrachloride	50	51.0	102	75-148
108-90-7	Chlorobenzene	50	43.2	86	76-124
67-66-3	Chloroform	50	48.0	96	77-124
106-46-7	1,4-Dichlorobenzene	50	41.3	83	71-123
107-06-2	1,2-Dichloroethane	50	46.2	92	66-150
75-35-4	1,1-Dichloroethene	50	47.9	96	61-132
127-18-4	Tetrachloroethene	50	44.5	89	70-136
79-01-6	Trichloroethene	50	47.6	95	79-126
75-01-4	Vinyl chloride	50	42.5	85	56-146

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	105%	76-120%
17060-07-0	1,2-Dichloroethane-D4	97%	64-135%
2037-26-5	Toluene-D8	94%	76-117%
460-00-4	4-Bromofluorobenzene	97%	72-122%

* = Outside of Control Limits.

5.3.1
 5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC48729

Account: AGMNYB Arcadis

Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC48675-2MS	2V43982.D	5	08/14/17	EH	n/a	n/a	V2V1738
JC48675-2MSD	2V43983.D	5	08/14/17	EH	n/a	n/a	V2V1738
JC48675-2	2V43976.D	5	08/14/17	EH	08/11/17	GP7111	V2V1738

The QC reported here applies to the following samples:

Method: SW846 8260C

JC48729-1

CAS No.	Compound	JC48675-2 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	250	263	105	250	266	106	1	38-139/13
78-93-3	2-Butanone (MEK)	ND	1000	1140	114	1000	1150	115	1	58-140/14
56-23-5	Carbon tetrachloride	ND	250	299	120	250	300	120	0	50-161/18
108-90-7	Chlorobenzene	ND	250	249	100	250	251	100	1	65-128/12
67-66-3	Chloroform	ND	250	280	112	250	276	110	1	66-132/14
106-46-7	1,4-Dichlorobenzene	ND	250	234	94	250	238	95	2	63-126/13
107-06-2	1,2-Dichloroethane	ND	250	266	106	250	273	109	3	59-153/15
75-35-4	1,1-Dichloroethene	ND	250	287	115	250	287	115	0	41-144/17
127-18-4	Tetrachloroethene	ND	250	258	103	250	260	104	1	48-145/15
79-01-6	Trichloroethene	ND	250	272	109	250	278	111	2	53-141/15
75-01-4	Vinyl chloride	ND	250	288	115	250	297	119	3	34-151/20

CAS No.	Surrogate Recoveries	MS	MSD	JC48675-2	Limits
1868-53-7	Dibromofluoromethane	106%	104%	105%	76-120%
17060-07-0	1,2-Dichloroethane-D4	97%	98%	97%	64-135%
2037-26-5	Toluene-D8	94%	94%	93%	76-117%
460-00-4	4-Bromofluorobenzene	96%	95%	98%	72-122%

* = Outside of Control Limits.

Leachate Spike Summary

Job Number: JC48729
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GP7111-LS10	2V43982A.D	5	08/14/17	EH	08/11/17	GP7111	V2V1738
JC48675-2	2V43976.D	5	08/14/17	EH	08/11/17	GP7111	V2V1738

The QC reported here applies to the following samples:

Method: SW846 8260C

JC48729-1

CAS No.	Compound	JC48675-2 ug/l	Spike Q	LS ug/l	LS %	Limits
71-43-2	Benzene	ND	250	263	105	38-139
78-93-3	2-Butanone (MEK)	ND	1000	1140	114	58-140
56-23-5	Carbon tetrachloride	ND	250	299	120	50-161
108-90-7	Chlorobenzene	ND	250	249	100	65-128
67-66-3	Chloroform	ND	250	280	112	66-132
106-46-7	1,4-Dichlorobenzene	ND	250	234	94	63-126
107-06-2	1,2-Dichloroethane	ND	250	266	106	59-153
75-35-4	1,1-Dichloroethene	ND	250	287	115	41-144
127-18-4	Tetrachloroethene	ND	250	258	103	48-145
79-01-6	Trichloroethene	ND	250	272	109	53-141
75-01-4	Vinyl chloride	ND	250	288	115	34-151

CAS No.	Surrogate Recoveries	LS	JC48675-2	Limits
1868-53-7	Dibromofluoromethane	106%	105%	76-120%
17060-07-0	1,2-Dichloroethane-D4	97%	97%	64-135%
2037-26-5	Toluene-D8	94%	93%	76-117%
460-00-4	4-Bromofluorobenzene	96%	98%	72-122%

* = Outside of Control Limits.

5.5.1
5

Instrument Performance Check (BFB)

Job Number: JC48729
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample: V2V1736-BFB	Injection Date: 08/10/17
Lab File ID: 2V43946.D	Injection Time: 19:36
Instrument ID: GCMS2V	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	10278	16.4	Pass
75	30.0 - 60.0% of mass 95	29533	47.2	Pass
95	Base peak, 100% relative abundance	62611	100.0	Pass
96	5.0 - 9.0% of mass 95	4347	6.94	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	53541	85.5	Pass
175	5.0 - 9.0% of mass 174	4310	6.88 (8.05) ^a	Pass
176	95.0 - 101.0% of mass 174	51200	81.8 (95.6) ^a	Pass
177	5.0 - 9.0% of mass 176	3450	5.51 (6.74) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2V1736-IC1736	2V43947.D	08/10/17	20:43	01:07	Initial cal 0.2
V2V1736-IC1736	2V43948.D	08/10/17	21:09	01:33	Initial cal 0.5
V2V1736-IC1736	2V43949.D	08/10/17	21:36	02:00	Initial cal 1
V2V1736-IC1736	2V43950.D	08/10/17	22:03	02:27	Initial cal 2
V2V1736-IC1736	2V43951.D	08/10/17	22:30	02:54	Initial cal 5
V2V1736-IC1736	2V43952.D	08/10/17	22:57	03:21	Initial cal 10
V2V1736-IC1736	2V43953.D	08/10/17	23:32	03:56	Initial cal 20
V2V1736-ICC1736	2V43954.D	08/10/17	23:59	04:23	Initial cal 50
V2V1736-IC1736	2V43955.D	08/11/17	00:26	04:50	Initial cal 100
V2V1736-IC1736	2V43956.D	08/11/17	00:52	05:16	Initial cal 200
V2V1736-ICV1736	2V43959.D	08/11/17	02:13	06:37	Initial cal verification 50
V2V1736-ICV1736	2V43960.D	08/11/17	02:40	07:04	Initial cal verification 50

5.6.1
5

Instrument Performance Check (BFB)

Job Number: JC48729
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample: V2V1738-BFB	Injection Date: 08/14/17
Lab File ID: 2V43969A.D	Injection Time: 07:49
Instrument ID: GCMS2V	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	9941	15.6	Pass
75	30.0 - 60.0% of mass 95	28795	45.3	Pass
95	Base peak, 100% relative abundance	63600	100.0	Pass
96	5.0 - 9.0% of mass 95	4276	6.72	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	54328	85.4	Pass
175	5.0 - 9.0% of mass 174	4319	6.79 (7.95) ^a	Pass
176	95.0 - 101.0% of mass 174	52613	82.7 (96.8) ^a	Pass
177	5.0 - 9.0% of mass 176	3502	5.51 (6.66) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2V1738-CC1736	2V43969.D	08/14/17	07:49	00:00	Continuing cal 20
V2V1738-MB	2V43970.D	08/14/17	08:42	00:53	Method Blank
V2V1738-BS	2V43971.D	08/14/17	09:18	01:29	Blank Spike
GP7111-LB19	2V43973.D	08/14/17	10:41	02:52	Leachate Blank
JC48729-1	2V43974.D	08/14/17	11:16	03:27	WC-20 20170804
ZZZZZZ	2V43975.D	08/14/17	11:43	03:54	(unrelated sample)
JC48675-2	2V43976.D	08/14/17	12:09	04:20	(used for QC only; not part of job JC48729)
ZZZZZZ	2V43977.D	08/14/17	12:36	04:47	(unrelated sample)
ZZZZZZ	2V43978.D	08/14/17	13:03	05:14	(unrelated sample)
GP7111-LB20	2V43979.D	08/14/17	13:30	05:41	Leachate Blank
ZZZZZZ	2V43980.D	08/14/17	13:57	06:08	(unrelated sample)
GP7111-LS10	2V43982A.D	08/14/17	14:51	07:02	Leachate Spike
JC48675-2MS	2V43982.D	08/14/17	14:51	07:02	Matrix Spike
JC48675-2MSD	2V43983.D	08/14/17	15:18	07:29	Matrix Spike Duplicate
GP7152-LB1	2V43985.D	08/14/17	16:14	08:25	Leachate Blank
ZZZZZZ	2V43986.D	08/14/17	16:41	08:52	(unrelated sample)
ZZZZZZ	2V43987.D	08/14/17	17:08	09:19	(unrelated sample)
ZZZZZZ	2V43988.D	08/14/17	17:35	09:46	(unrelated sample)
ZZZZZZ	2V43989.D	08/14/17	18:01	10:12	(unrelated sample)
ZZZZZZ	2V43990.D	08/14/17	18:28	10:39	(unrelated sample)
GP7152-LS1	2V43991.D	08/14/17	18:55	11:06	Leachate Spike

5.6.2
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Volatile Surrogate Recovery Summary

Job Number: JC48729

Account: AGMNYB Arcadis

Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Method: SW846 8260C

Matrix: LEACHATE

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JC48729-1	2V43974.D	105	97	93	99
GP7111-LB19	2V43973.D	105	95	93	96
GP7111-LS10	2V43982A.D	106	97	94	96
JC48675-2MS	2V43982.D	106	97	94	96
JC48675-2MSD	2V43983.D	104	98	94	95
V2V1738-BS	2V43971.D	105	97	94	97
V2V1738-MB	2V43970.D	103	92	93	98

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	76-120%
S2 = 1,2-Dichloroethane-D4	64-135%
S3 = Toluene-D8	76-117%
S4 = 4-Bromofluorobenzene	72-122%

5.7.1

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GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC48729
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5281-MB1	6P40350.D	1	08/13/17	CS	08/13/17	OP5281	E6P1859

The QC reported here applies to the following samples:

Method: SW846 8270D

JC48729-1

CAS No.	Compound	Result	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	2.0	0.89	ug/l	
	3&4-Methylphenol	ND	2.0	0.88	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.17	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.55	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.39	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
110-86-1	Pyridine	ND	2.0	0.39	ug/l	

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	39% 14-88%
4165-62-2	Phenol-d5	26% 10-110%
118-79-6	2,4,6-Tribromophenol	91% 39-149%
4165-60-0	Nitrobenzene-d5	74% 32-128%
321-60-8	2-Fluorobiphenyl	59% 35-119%
1718-51-0	Terphenyl-d14	87% 10-126%

Leachate Blank Summary

Job Number: JC48729
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5281-LB41	6P40351.D	1	08/14/17	CS	08/13/17	OP5281	E6P1859

The QC reported here applies to the following samples:

Method: SW846 8270D

JC48729-1

CAS No.	Compound	Result	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	20	8.9	ug/l	
	3&4-Methylphenol	ND	20	8.8	ug/l	
87-86-5	Pentachlorophenol	ND	100	14	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	50	13	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	50	9.2	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	1.7	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	20	5.5	ug/l	
118-74-1	Hexachlorobenzene	ND	20	3.3	ug/l	
87-68-3	Hexachlorobutadiene	ND	10	4.9	ug/l	
67-72-1	Hexachloroethane	ND	50	3.9	ug/l	
98-95-3	Nitrobenzene	ND	20	6.4	ug/l	
110-86-1	Pyridine	ND	20	3.9	ug/l	

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	42% 14-88%
4165-62-2	Phenol-d5	28% 10-110%
118-79-6	2,4,6-Tribromophenol	100% 39-149%
4165-60-0	Nitrobenzene-d5	81% 32-128%
321-60-8	2-Fluorobiphenyl	66% 35-119%
1718-51-0	Terphenyl-d14	93% 10-126%

Blank Spike Summary

Job Number: JC48729

Account: AGMNYB Arcadis

Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5281-BS1	6P40353.D	1	08/14/17	CS	08/13/17	OP5281	E6P1859

The QC reported here applies to the following samples:

Method: SW846 8270D

JC48729-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-48-7	2-Methylphenol	500	370	74	42-103
	3&4-Methylphenol	500	373	75	39-110
87-86-5	Pentachlorophenol	500	475	95	30-136
95-95-4	2,4,5-Trichlorophenol	500	466	93	55-116
88-06-2	2,4,6-Trichlorophenol	500	481	96	56-115
106-46-7	1,4-Dichlorobenzene	500	281	56	39-110
121-14-2	2,4-Dinitrotoluene	500	513	103	57-122
118-74-1	Hexachlorobenzene	500	453	91	49-122
87-68-3	Hexachlorobutadiene	500	321	64	24-112
67-72-1	Hexachloroethane	500	278	56	31-107
98-95-3	Nitrobenzene	500	442	88	44-116
110-86-1	Pyridine	500	199	40	10-110

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	47%	14-88%
4165-62-2	Phenol-d5	36%	10-110%
118-79-6	2,4,6-Tribromophenol	107%	39-149%
4165-60-0	Nitrobenzene-d5	93%	32-128%
321-60-8	2-Fluorobiphenyl	79%	35-119%
1718-51-0	Terphenyl-d14	98%	10-126%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC48729
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5281-MS	6P40354.D	1	08/14/17	CS	08/13/17	OP5281	E6P1859
OP5281-MSD	6P40355.D	1	08/14/17	CS	08/13/17	OP5281	E6P1859
JC48705-1A	6P40356.D	1	08/14/17	CS	08/13/17	OP5281	E6P1859

The QC reported here applies to the following samples:

Method: SW846 8270D

JC48729-1

CAS No.	Compound	JC48705-1A Spike		MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
		ug/l	Q							
95-48-7	2-Methylphenol	ND	500	351	70	500	320	64	9	47-112/18
	3&4-Methylphenol	ND	500	361	72	500	331	66	9	44-113/19
87-86-5	Pentachlorophenol	ND	500	454	91	500	418	84	8	25-151/25
95-95-4	2,4,5-Trichlorophenol	ND	500	450	90	500	414	83	8	51-124/20
88-06-2	2,4,6-Trichlorophenol	ND	500	471	94	500	421	84	11	53-120/21
106-46-7	1,4-Dichlorobenzene	ND	500	286	57	500	245	49	15	40-105/22
121-14-2	2,4-Dinitrotoluene	ND	500	488	98	500	448	90	9	54-123/27
118-74-1	Hexachlorobenzene	ND	500	446	89	500	404	81	10	46-125/24
87-68-3	Hexachlorobutadiene	ND	500	331	66	500	284	57	15	26-121/24
67-72-1	Hexachloroethane	ND	500	292	58	500	245	49	18	35-111/26
98-95-3	Nitrobenzene	ND	500	434	87	500	381	76	13	35-130/25
110-86-1	Pyridine	ND	500	193	39	500	132	26	38	12-102/41

CAS No.	Surrogate Recoveries	MS	MSD	JC48705-1A	Limits
367-12-4	2-Fluorophenol	46%	40%	40%	14-88%
4165-62-2	Phenol-d5	34%	30%	27%	10-110%
118-79-6	2,4,6-Tribromophenol	105%	94%	93%	39-149%
4165-60-0	Nitrobenzene-d5	91%	78%	79%	32-128%
321-60-8	2-Fluorobiphenyl	77%	70%	66%	35-119%
1718-51-0	Terphenyl-d14	91%	86%	93%	10-126%

* = Outside of Control Limits.

Leachate Spike Summary

Job Number: JC48729
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5281-LS14	6P40354.D	1	08/14/17	CS	08/13/17	OP5281	E6P1859
JC48705-1A	6P40356.D	1	08/14/17	CS	08/13/17	OP5281	E6P1859

The QC reported here applies to the following samples:

Method: SW846 8270D

JC48729-1

CAS No.	Compound	JC48705-1A ug/l	Spike Q	ug/l	LS ug/l	LS %	Limits
95-48-7	2-Methylphenol	ND	500	351	70	47-112	
	3&4-Methylphenol	ND	500	361	72	44-113	
87-86-5	Pentachlorophenol	ND	500	454	91	25-151	
95-95-4	2,4,5-Trichlorophenol	ND	500	450	90	51-124	
88-06-2	2,4,6-Trichlorophenol	ND	500	471	94	53-120	
106-46-7	1,4-Dichlorobenzene	ND	500	286	57	40-105	
121-14-2	2,4-Dinitrotoluene	ND	500	488	98	54-123	
118-74-1	Hexachlorobenzene	ND	500	446	89	46-125	
87-68-3	Hexachlorobutadiene	ND	500	331	66	26-121	
67-72-1	Hexachloroethane	ND	500	292	58	35-111	
98-95-3	Nitrobenzene	ND	500	434	87	35-130	
110-86-1	Pyridine	ND	500	193	39	12-102	

CAS No.	Surrogate Recoveries	LS	JC48705-1A	Limits
367-12-4	2-Fluorophenol	46%	40%	14-88%
4165-62-2	Phenol-d5	34%	27%	10-110%
118-79-6	2,4,6-Tribromophenol	105%	93%	39-149%
4165-60-0	Nitrobenzene-d5	91%	79%	32-128%
321-60-8	2-Fluorobiphenyl	77%	66%	35-119%
1718-51-0	Terphenyl-d14	91%	93%	10-126%

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JC48729
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample: E6P1844-DFTPP	Injection Date: 08/03/17
Lab File ID: 6P40139.D	Injection Time: 21:45
Instrument ID: GCMS6P	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	47130	49.6	Pass
68	Less than 2.0% of mass 69	658	0.69 (1.68) ^a	Pass
69	Mass 69 relative abundance	39144	41.2	Pass
70	Less than 2.0% of mass 69	327	0.34 (0.84) ^a	Pass
127	40.0 - 60.0% of mass 198	54266	57.1	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	95037	100.0	Pass
199	5.0 - 9.0% of mass 198	6314	6.64	Pass
275	10.0 - 30.0% of mass 198	19318	20.3	Pass
365	1.0 - 100.0% of mass 198	2315	2.44	Pass
441	Present, but less than mass 443	9245	9.73 (81.0) ^b	Pass
442	40.0 - 100.0% of mass 198	62810	66.1	Pass
443	17.0 - 23.0% of mass 442	11414	12.0 (18.2) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P1844-IC1844	6P40140.D	08/03/17	22:06	00:21	Initial cal 100
E6P1844-IC1844	6P40141.D	08/03/17	22:30	00:45	Initial cal 80
E6P1844-ICC1844	6P40142.D	08/03/17	22:54	01:09	Initial cal 50
E6P1844-IC1844	6P40143.D	08/03/17	23:18	01:33	Initial cal 25
E6P1844-IC1844	6P40144.D	08/03/17	23:42	01:57	Initial cal 10
E6P1844-IC1844	6P40145.D	08/04/17	00:17	02:32	Initial cal 5
E6P1844-IC1844	6P40146.D	08/04/17	00:41	02:56	Initial cal 2
E6P1844-IC1844	6P40147.D	08/04/17	01:05	03:20	Initial cal 1

6.6.1
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Instrument Performance Check (DFTPP)

Job Number: JC48729
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample: E6P1846-DFTPP	Injection Date: 08/04/17
Lab File ID: 6P40150.D	Injection Time: 13:09
Instrument ID: GCMS6P	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	46125	47.5	Pass
68	Less than 2.0% of mass 69	675	0.69 (1.71) ^a	Pass
69	Mass 69 relative abundance	39404	40.5	Pass
70	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
127	40.0 - 60.0% of mass 198	56744	58.4	Pass
197	Less than 1.0% of mass 198	574	0.59	Pass
198	Base peak, 100% relative abundance	97178	100.0	Pass
199	5.0 - 9.0% of mass 198	6373	6.56	Pass
275	10.0 - 30.0% of mass 198	20713	21.3	Pass
365	1.0 - 100.0% of mass 198	2691	2.77	Pass
441	Present, but less than mass 443	10089	10.4 (76.5) ^b	Pass
442	40.0 - 100.0% of mass 198	70706	72.8	Pass
443	17.0 - 23.0% of mass 442	13196	13.6 (18.7) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P1846-IC1846	6P40151.D	08/04/17	13:55	00:46	Initial cal 100
E6P1846-IC1846	6P40152.D	08/04/17	14:19	01:10	Initial cal 80
E6P1846-ICC1846	6P40153.D	08/04/17	14:44	01:35	Initial cal 50
E6P1846-IC1846	6P40154.D	08/04/17	15:08	01:59	Initial cal 25
E6P1846-IC1846	6P40155.D	08/04/17	16:04	02:55	Initial cal 10
E6P1846-IC1846	6P40156.D	08/04/17	16:29	03:20	Initial cal 5
E6P1846-IC1846	6P40157.D	08/04/17	16:53	03:44	Initial cal 2
E6P1846-IC1846	6P40158.D	08/04/17	17:18	04:09	Initial cal 1

6.6.2
6

Instrument Performance Check (DFTPP)

Job Number: JC48729
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample: E6P1847-DFTPP	Injection Date: 08/06/17
Lab File ID: 6P40168.D	Injection Time: 12:36
Instrument ID: GCMS6P	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	40883	45.3	Pass
68	Less than 2.0% of mass 69	683	0.76 (1.87) ^a	Pass
69	Mass 69 relative abundance	36519	40.5	Pass
70	Less than 2.0% of mass 69	195	0.22 (0.53) ^a	Pass
127	40.0 - 60.0% of mass 198	51432	57.0	Pass
197	Less than 1.0% of mass 198	449	0.50	Pass
198	Base peak, 100% relative abundance	90237	100.0	Pass
199	5.0 - 9.0% of mass 198	5950	6.59	Pass
275	10.0 - 30.0% of mass 198	18940	21.0	Pass
365	1.0 - 100.0% of mass 198	2536	2.81	Pass
441	Present, but less than mass 443	10731	11.9 (82.7) ^b	Pass
442	40.0 - 100.0% of mass 198	71928	79.7	Pass
443	17.0 - 23.0% of mass 442	12973	14.4 (18.0) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P1847-ICV1844	6P40170.D	08/06/17	13:19	00:43	Initial cal verification 50
E6P1847-ICV1844	6P40172.D	08/06/17	15:31	02:55	Initial cal verification 50
E6P1847-ICV1844	6P40177.D	08/06/17	17:43	05:07	Initial cal verification 50
E6P1847-ICV1846	6P40177A.D	08/06/17	17:43	05:07	Initial cal verification 50

6.6.3
6

Instrument Performance Check (DFTPP)

Job Number: JC48729
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample: E6P1859-DFTPP	Injection Date: 08/13/17
Lab File ID: 6P40347.D	Injection Time: 22:28
Instrument ID: GCMS6P	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	26451	47.5	Pass
68	Less than 2.0% of mass 69	392	0.70 (1.65) ^a	Pass
69	Mass 69 relative abundance	23734	42.6	Pass
70	Less than 2.0% of mass 69	115	0.21 (0.48) ^a	Pass
127	40.0 - 60.0% of mass 198	31247	56.1	Pass
197	Less than 1.0% of mass 198	385	0.69	Pass
198	Base peak, 100% relative abundance	55658	100.0	Pass
199	5.0 - 9.0% of mass 198	3753	6.74	Pass
275	10.0 - 30.0% of mass 198	11824	21.2	Pass
365	1.0 - 100.0% of mass 198	1734	3.12	Pass
441	Present, but less than mass 443	6312	11.3 (79.8) ^b	Pass
442	40.0 - 100.0% of mass 198	43360	77.9	Pass
443	17.0 - 23.0% of mass 442	7909	14.2 (18.2) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P1859-CC1844	6P40348.D	08/13/17	22:40	00:12	Continuing cal 25
E6P1859-CC1846	6P40349.D	08/13/17	23:04	00:36	Continuing cal 25
OP5280-MB1	6P40350.D	08/13/17	23:38	01:10	Method Blank
OP5281-MB1	6P40350.D	08/13/17	23:38	01:10	Method Blank
OP5281-LB41	6P40351.D	08/14/17	00:02	01:34	Leachate Blank
OP5280-LB39	6P40352.D	08/14/17	00:26	01:58	Leachate Blank
OP5281-BS1	6P40353.D	08/14/17	00:50	02:22	Blank Spike
OP5280-BS1	6P40353.D	08/14/17	00:50	02:22	Blank Spike
OP5281-LS14	6P40354.D	08/14/17	01:14	02:46	Leachate Spike
OP5281-MS	6P40354.D	08/14/17	01:14	02:46	Matrix Spike
OP5281-MSD	6P40355.D	08/14/17	01:38	03:10	Matrix Spike Duplicate
JC48705-1A	6P40356.D	08/14/17	02:02	03:34	(used for QC only; not part of job JC48729)
ZZZZZZ	6P40357.D	08/14/17	02:25	03:57	(unrelated sample)
ZZZZZZ	6P40358.D	08/14/17	02:49	04:21	(unrelated sample)
ZZZZZZ	6P40359.D	08/14/17	03:13	04:45	(unrelated sample)
JC48729-1	6P40360.D	08/14/17	03:37	05:09	WC-20 20170804
ZZZZZZ	6P40361.D	08/14/17	04:01	05:33	(unrelated sample)
ZZZZZZ	6P40362.D	08/14/17	04:24	05:56	(unrelated sample)
ZZZZZZ	6P40363.D	08/14/17	04:48	06:20	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC48729
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample:	E6P1859-DFTPP	Injection Date:	08/13/17
Lab File ID:	6P40347.D	Injection Time:	22:28
Instrument ID:	GCMS6P		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	6P40364.D	08/14/17	05:12	06:44	(unrelated sample)
ZZZZZZ	6P40365.D	08/14/17	05:35	07:07	(unrelated sample)
ZZZZZZ	6P40366.D	08/14/17	05:59	07:31	(unrelated sample)
OP5280-LS13	6P40367.D	08/14/17	06:23	07:55	Leachate Spike
OP5280-MS	6P40367.D	08/14/17	06:23	07:55	Matrix Spike
OP5280-MSD	6P40368.D	08/14/17	06:46	08:18	Matrix Spike Duplicate
JC48595-1A	6P40369.D	08/14/17	07:10	08:42	(used for QC only; not part of job JC48729)
ZZZZZZ	6P40370.D	08/14/17	07:33	09:05	(unrelated sample)
ZZZZZZ	6P40371.D	08/14/17	07:57	09:29	(unrelated sample)

6.6.4
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Semivolatiles Surrogate Recovery Summary

Job Number: JC48729

Account: AGMNYB Arcadis

Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Method: SW846 8270D	Matrix: LEACHATE
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JC48729-1	6P40360.D	49	33	100	89	71	98
OP5281-BS1	6P40353.D	47	36	107	93	79	98
OP5281-LB41	6P40351.D	42	28	100	81	66	93
OP5281-LS14	6P40354.D	46	34	105	91	77	91
OP5281-MB1	6P40350.D	39	26	91	74	59	87
OP5281-MS	6P40354.D	46	34	105	91	77	91
OP5281-MSD	6P40355.D	40	30	94	78	70	86

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	14-88%
S2 = Phenol-d5	10-110%
S3 = 2,4,6-Tribromophenol	39-149%
S4 = Nitrobenzene-d5	32-128%
S5 = 2-Fluorobiphenyl	35-119%
S6 = Terphenyl-d14	10-126%

6.7.1

6

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC48729
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5257-MB1	XX214230.D	1	08/14/17	JR	08/12/17	OP5257	GXX6094

The QC reported here applies to the following samples:

Method: SW846 8082A

JC48729-1

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	33	26	ug/kg	
11104-28-2	Aroclor 1221	ND	33	14	ug/kg	
11141-16-5	Aroclor 1232	ND	33	20	ug/kg	
53469-21-9	Aroclor 1242	ND	33	17	ug/kg	
12672-29-6	Aroclor 1248	ND	33	20	ug/kg	
11097-69-1	Aroclor 1254	ND	33	15	ug/kg	
11096-82-5	Aroclor 1260	ND	33	24	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
877-09-8	Tetrachloro-m-xylene	98%	24-152%
877-09-8	Tetrachloro-m-xylene	102%	24-152%
2051-24-3	Decachlorobiphenyl	90%	10-166%
2051-24-3	Decachlorobiphenyl	93%	10-166%

7.1.1
7

Blank Spike Summary

Job Number: JC48729
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5257-BS1	XX214231.D	1	08/14/17	JR	08/12/17	OP5257	GXX6094

The QC reported here applies to the following samples:

Method: SW846 8082A

JC48729-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	133	135	101	61-146
11104-28-2	Aroclor 1221		ND		70-130
11141-16-5	Aroclor 1232		ND		70-130
53469-21-9	Aroclor 1242		ND		70-130
12672-29-6	Aroclor 1248		ND		70-130
11097-69-1	Aroclor 1254		ND		70-130
11096-82-5	Aroclor 1260	133	139	104	62-148

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	91%	24-152%
877-09-8	Tetrachloro-m-xylene	96%	24-152%
2051-24-3	Decachlorobiphenyl	86%	10-166%
2051-24-3	Decachlorobiphenyl	89%	10-166%

* = Outside of Control Limits.

7.2.1
7

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC48729
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5257-MS	XX214450.D	1	08/17/17	JR	08/12/17	OP5257	GXX6096
OP5257-MSD	XX214451.D	1	08/17/17	JR	08/12/17	OP5257	GXX6096
JC47531-1	XX214449.D	1	08/17/17	JR	08/12/17	OP5257	GXX6096

The QC reported here applies to the following samples:

Method: SW846 8082A

JC48729-1

CAS No.	Compound	JC47531-1 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND	227	257	113	229	250	109	3	24-178/46
11104-28-2	Aroclor 1221	ND		ND			ND		nc	70-130/50
11141-16-5	Aroclor 1232	ND		ND			ND		nc	70-130/50
53469-21-9	Aroclor 1242	ND		ND			ND		nc	70-130/50
12672-29-6	Aroclor 1248	ND		ND			ND		nc	70-130/50
11097-69-1	Aroclor 1254	ND		ND			ND		nc	70-130/50
11096-82-5	Aroclor 1260	180	227	442	115	229	420	105	5	15-185/45

CAS No.	Surrogate Recoveries	MS	MSD	JC47531-1	Limits
877-09-8	Tetrachloro-m-xylene	95%	90%	97%	24-152%
877-09-8	Tetrachloro-m-xylene	100%	98%	101%	24-152%
2051-24-3	Decachlorobiphenyl	88%	84%	93%	10-166%
2051-24-3	Decachlorobiphenyl	101%	91%	102%	10-166%

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: JC48729
Account: AGMNYB Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Method: SW846 8082A	Matrix: SO
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 ^a	S1 ^b	S2 ^a	S2 ^b
JC48729-1	XX214236.D	97	100	90	95
OP5257-BS1	XX214231.D	91	96	86	89
OP5257-MB1	XX214230.D	98	102	90	93
OP5257-MS	XX214450.D	95	100	88	101
OP5257-MSD	XX214451.D	90	98	84	91

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	24-152%
S2 = Decachlorobiphenyl	10-166%

- (a) Recovery from GC signal #1
- (b) Recovery from GC signal #2

7.4.1
7

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC48729
Account: AGMNYB - Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

QC Batch ID: MP2382
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/11/17

Metal	RL	IDL	MDL	MB raw	final
Aluminum	52	.74	5.4		
Antimony	2.1	.2	.39		
Arsenic	2.1	.16	.26	-0.052	<2.1
Barium	21	.021	.18	0.083	<21
Beryllium	0.21	.01	.051		
Bismuth	2.1	.27	.51		
Boron	10	.13	1.3		
Cadmium	0.52	.031	.059	0.0	<0.52
Calcium	520	.34	44		
Chromium	1.0	.083	.19	0.083	<1.0
Cobalt	5.2	.052	.073		
Copper	2.6	.094	.41		
Iron	52	.28	4.8		
Lead	2.1	.23	.36	0.10	<2.1
Lithium	5.2	.32	1.2		
Magnesium	520	1.8	14		
Manganese	1.6	.01	.091		
Molybdenum	2.1	.042	.16		
Nickel	4.2	.042	.26		
Phosphorus	10	.22	4.2		
Potassium	1000	4.9	32		
Selenium	2.1	.26	.67	-0.22	<2.1
Silicon	21	.23	2.7		
Silver	0.52	.1	.3	-0.010	<0.52
Sodium	1000	1.7	14		
Strontium	5.2	.01	.99		
Sulfur	10	.42	3		
Thallium	1.0	.2	.42		
Tin	10	.14	2.7		
Titanium	1.0	.063	.28		
Tungsten	5.2	.21	1.2		
Vanadium	5.2	.083	.092		
Zinc	5.2	.021	4		

8.1.1
8

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC48729
Account: AGMNYB - Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

QC Batch ID: MP2382
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/11/17

Metal	RL	IDL	MDL	MB raw	final
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Zirconium 2.1 .052 .26

Associated samples MP2382: JC48729-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.1.1
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC48729
 Account: AGMNYB - Arcadis
 Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

QC Batch ID: MP2382
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 08/11/17

Metal	JC48672-1 Original MS		SpikeLot MPSPK2	% Rec	QC Limits
Aluminum	anr				
Antimony	anr				
Arsenic	4.0	208	222	91.8	75-125
Barium	126	286	222	72.0N(a)	75-125
Beryllium	anr				
Bismuth					
Boron					
Cadmium	0.089	209	222	94.0	75-125
Calcium	anr				
Chromium	26.9	229	222	90.9	75-125
Cobalt	anr				
Copper	anr				
Iron	anr				
Lead	81.3	255	222	78.2	75-125
Lithium					
Magnesium	anr				
Manganese	anr				
Molybdenum					
Nickel	anr				
Phosphorus					
Potassium	anr				
Selenium	0.0	204	222	91.8	75-125
Silicon					
Silver	0.20	26.6	27.8	95.0	75-125
Sodium	anr				
Strontium					
Sulfur					
Thallium	anr				
Tin					
Titanium					
Tungsten					
Vanadium	anr				
Zinc	anr				

8.12
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC48729
 Account: AGMNYB - Arcadis
 Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

QC Batch ID: MP2382
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 08/11/17

Metal	JC48672-1 Original MS	Spikelet MPSPK2	% Rec	QC Limits
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Zirconium

Associated samples MP2382: JC48729-1

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

8.1.2

8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC48729
 Account: AGMNYB - Arcadis
 Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

QC Batch ID: MP2382
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 08/11/17

Metal	JC48672-1 Original	MSD	Spike/lot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	4.0	203	220	90.4	2.4	20
Barium	126	305	220	81.3	6.4	20
Beryllium	anr					
Bismuth						
Boron						
Cadmium	0.089	204	220	92.7	2.4	20
Calcium	anr					
Chromium	26.9	223	220	89.1	2.7	20
Cobalt	anr					
Copper	anr					
Iron	anr					
Lead	81.3	261	220	81.7	2.3	20
Lithium						
Magnesium	anr					
Manganese	anr					
Molybdenum						
Nickel	anr					
Phosphorus						
Potassium	anr					
Selenium	0.0	200	220	90.9	2.0	20
Silicon						
Silver	0.20	26.2	27.5	94.5	1.5	20
Sodium	anr					
Strontium						
Sulfur						
Thallium	anr					
Tin						
Titanium						
Tungsten						
Vanadium	anr					
Zinc	anr					

8.12
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC48729
 Account: AGMNYB - Arcadis
 Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

QC Batch ID: MP2382
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 08/11/17

Metal	JC48672-1 Original MSD	SpikeLot MPSPK2	% Rec	MSD RPD	QC Limit
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Zirconium

Associated samples MP2382: JC48729-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

8.1.2
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC48729
 Account: AGMNYB - Arcadis
 Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

QC Batch ID: MP2382
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 08/11/17

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	186	198	93.9	80-120
Barium	191	198	96.5	80-120
Beryllium	anr			
Bismuth				
Boron				
Cadmium	188	198	94.9	80-120
Calcium	anr			
Chromium	194	198	98.0	80-120
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	192	198	97.0	80-120
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Phosphorus				
Potassium	anr			
Selenium	187	198	94.4	80-120
Silicon				
Silver	23.8	24.8	96.2	80-120
Sodium	anr			
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	anr			
Zinc	anr			

8.1.3
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC48729
Account: AGMNYB - Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

QC Batch ID: MP2382
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/11/17

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
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Zirconium

Associated samples MP2382: JC48729-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.1.3

8

SERIAL DILUTION RESULTS SUMMARY

Login Number: JC48729
 Account: AGMNYB - Arcadis
 Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

QC Batch ID: MP2382
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: ug/l

Prep Date: 08/11/17

Metal	JC48672-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	36.3	37.4	3.0	0-10
Barium	1140	1150	1.2	0-10
Beryllium	anr			
Bismuth				
Boron				
Cadmium	0.800	0.00	100.0(a)	0-10
Calcium	anr			
Chromium	242	246	1.5	0-10
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	731	745	1.9	0-10
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Phosphorus				
Potassium	anr			
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	1.80	0.00	100.0(a)	0-10
Sodium	anr			
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	anr			
Zinc	anr			

8.1.4
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: JC48729
Account: AGMNYB - Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

QC Batch ID: MP2382
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/11/17

Metal	JC48672-1	QC
	Original SDL 1:5 %DIF	Limits

Zirconium

Associated samples MP2382: JC48729-1

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

8.1.4

8

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC48729
Account: AGMNYB - Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

QC Batch ID: MP2389
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/11/17

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.033	.0055	.015	0.011	<0.033

Associated samples MP2389: JC48729-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC48729
 Account: AGMNYB - Arcadis
 Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

QC Batch ID: MP2389
 Matrix Type: SOLID

Methods: SW846 7471B
 Units: mg/kg

Prep Date: 08/11/17

Metal	JC48542-1 Original MS	Spikelot HGPWS1	% Rec	QC Limits
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Mercury	0.0	0.14	0.307	45.6N(a) 80-120
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Associated samples MP2389: JC48729-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested
 (a) Spike recovery indicates possible matrix interference.

8.2.2
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC48729
 Account: AGMNYB - Arcadis
 Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

QC Batch ID: MP2389
 Matrix Type: SOLID

Methods: SW846 7471B
 Units: mg/kg

Prep Date: 08/11/17 08/11/17

Metal	JC48542-1 Original MSD	Spike lot HGPWS1	% Rec	MSD RPD	QC Limit	JC48542-1 Original DUP	RPD	QC Limits		
Mercury	0.0	0.19	0.309	61.6N(a)	30.3 (b)	20	0.0	0.0069	200.0(c)	0-20

Associated samples MP2389: JC48729-1

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike recovery indicates possible matrix interference.

(b) High rpd due to possible sample nonhomogeneity.

(c) RPD acceptable due to low duplicate and sample concentrations.

8.2.2

8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC48729
Account: AGMNYB - Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

QC Batch ID: MP2389
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/11/17

Metal	BSP Result	Spikelot HGPWS1	% Rec	QC Limits
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Mercury 0.29 0.333 87.1 80-120

Associated samples MP2389: JC48729-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: JC48729
 Account: AGMNYB - Arcadis
 Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

QC Batch ID: MP2389
 Matrix Type: SOLID

Methods: SW846 7471B
 Units: ug/l

Prep Date:

08/11/17

Metal	Sample ml	Final ml	JC48542-1 Raw	PS Corr.** ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Mercury	50	51		.153	1	0.1	1.960784	7.8* (a)	85-115

Associated samples MP2389: JC48729-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (**) Corr. sample result = Raw * (sample volume / final volume)
 (anr) Analyte not requested
 (a) Spike recovery indicates possible matrix interference.

8.2.4
 8

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JC48729
Account: AGMNYB - Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Cyanide Reactivity	GP7139/GN68138	10	0.0	mg/kg	100	7.10	7.1	.5-28%
Sulfide Reactivity	GP7138/GN68137	100	0.0	mg/kg	401	230	57.4	42-107%

Associated Samples:
Batch GP7138: JC48729-1
Batch GP7139: JC48729-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JC48729
Account: AGMNYB - Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Corrosivity as pH	GN68052	JC48519-1A	su	8.03	7.68(a)	4.5	0-5%
Cyanide Reactivity	GP7139/GN68138	JC48397-1	mg/kg	0.0	0.0	0.0	0-20%
Ignitability (Flashpoint)	GN68080	JC48397-1	Deg. F	>200	>200	0.0	0-10%
Paint Filter Test	GN68062	JC48548-2	ml/100g	<0.50	<0.50	0.0	0-10%
Sulfide Reactivity	GP7138/GN68137	JC48397-1	mg/kg	0.0	0.0	0.0	0-20%

Associated Samples:

Batch GP7138: JC48729-1
Batch GP7139: JC48729-1
Batch GN68052: JC48729-1
Batch GN68062: JC48729-1
Batch GN68080: JC48729-1
(*) Outside of QC limits
(a) NC 7.68

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JC48729
Account: AGMNYB - Arcadis
Project: Flexo Transparent LLC, Seneca Street, Buffalo, NY

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Sulfide Reactivity	GP7138/GN68137	JC48397-1	mg/kg	0.0	413	109	26.4	20-82%

Associated Samples:

Batch GP7138: JC48729-1

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-119784-1

Client Project/Site: Flexo Transparent

For:

ARCADIS U.S. Inc

50 Fountain Plaza

Suite 600

Buffalo, New York 14202

Attn: Katherine Clubine



Authorized for release by:

6/27/2017 12:09:11 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Job ID: 480-119784-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-119784-1

Receipt

The sample was received on 6/19/2017 2:30 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-363767 recovered outside acceptance criteria, low biased, for 1,2-Dichloroethane and 2-Butanone (MEK). A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following sample is impacted: WC-21 20170619 (480-119784-1).

Method(s) 8260C: The following samples was diluted due to the nature of the TCLP matrix: WC-21 20170619 (480-119784-1) and (LB 480-363404/1-A). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA

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

GC Semi VOA

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

Metals

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

General Chemistry

Method(s) 9012: The continuing calibration verification (CCV) associated with batch 480-364038 recovered above the upper control limit for Cyanide, Reactive. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. (CCV 480-364038/22)

Method(s) 9045C, 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: WC-21 20170619 (480-119784-1).

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

Organic Prep

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-363663.

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

Detection Summary

Client: ARCADIS U.S. Inc
 Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Client Sample ID: WC-21 20170619

Lab Sample ID: 480-119784-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	passed				mL/100g	1		9095B	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0067	J B	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	0.95	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0014	J	0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.0087	J	0.020	0.0030	mg/L	1		6010C	TCLP
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176.0		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	8.1	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	21.0	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo



Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Client Sample ID: WC-21 20170619

Lab Sample ID: 480-119784-1

Date Collected: 06/19/17 11:30

Matrix: Solid

Date Received: 06/19/17 14:30

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			06/24/17 06:27	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			06/24/17 06:27	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			06/24/17 06:27	10
Benzene	ND		0.010	0.0041	mg/L			06/24/17 06:27	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			06/24/17 06:27	10
Chlorobenzene	ND		0.010	0.0075	mg/L			06/24/17 06:27	10
Chloroform	ND		0.010	0.0034	mg/L			06/24/17 06:27	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			06/24/17 06:27	10
Trichloroethene	ND		0.010	0.0046	mg/L			06/24/17 06:27	10
Vinyl chloride	ND		0.010	0.0090	mg/L			06/24/17 06:27	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		77 - 120		06/24/17 06:27	10
4-Bromofluorobenzene (Surr)	102		73 - 120		06/24/17 06:27	10
Dibromofluoromethane (Surr)	97		75 - 123		06/24/17 06:27	10
Toluene-d8 (Surr)	97		80 - 120		06/24/17 06:27	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		06/23/17 11:19	06/26/17 13:08	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		06/23/17 11:19	06/26/17 13:08	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		06/23/17 11:19	06/26/17 13:08	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		06/23/17 11:19	06/26/17 13:08	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		06/23/17 11:19	06/26/17 13:08	1
3-Methylphenol	ND		0.010	0.00040	mg/L		06/23/17 11:19	06/26/17 13:08	1
4-Methylphenol	ND		0.010	0.00036	mg/L		06/23/17 11:19	06/26/17 13:08	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		06/23/17 11:19	06/26/17 13:08	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		06/23/17 11:19	06/26/17 13:08	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		06/23/17 11:19	06/26/17 13:08	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		06/23/17 11:19	06/26/17 13:08	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		06/23/17 11:19	06/26/17 13:08	1
Pyridine	ND		0.025	0.00041	mg/L		06/23/17 11:19	06/26/17 13:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	93		41 - 120	06/23/17 11:19	06/26/17 13:08	1
2-Fluorobiphenyl	88		48 - 120	06/23/17 11:19	06/26/17 13:08	1
2-Fluorophenol (Surr)	53		35 - 120	06/23/17 11:19	06/26/17 13:08	1
Nitrobenzene-d5 (Surr)	86		46 - 120	06/23/17 11:19	06/26/17 13:08	1
Phenol-d5 (Surr)	35		22 - 120	06/23/17 11:19	06/26/17 13:08	1
p-Terphenyl-d14 (Surr)	83		59 - 136	06/23/17 11:19	06/26/17 13:08	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0067	J B	0.015	0.0056	mg/L		06/23/17 11:30	06/26/17 13:18	1
Barium	0.95	J	1.0	0.10	mg/L		06/23/17 11:30	06/26/17 13:18	1
Cadmium	0.0014	J	0.0020	0.00050	mg/L		06/23/17 11:30	06/26/17 13:18	1
Chromium	ND		0.020	0.010	mg/L		06/23/17 11:30	06/26/17 13:18	1
Lead	0.0087	J	0.020	0.0030	mg/L		06/23/17 11:30	06/26/17 13:18	1
Selenium	ND		0.025	0.0087	mg/L		06/23/17 11:30	06/26/17 13:18	1
Silver	ND		0.0060	0.0017	mg/L		06/23/17 11:30	06/26/17 13:18	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Client Sample ID: WC-21 20170619

Lab Sample ID: 480-119784-1

Date Collected: 06/19/17 11:30

Matrix: Solid

Date Received: 06/19/17 14:30

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		06/23/17 12:00	06/23/17 16:23	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	passed				mL/100g			06/20/17 19:40	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176.0		50.0	50.0	Degrees F			06/24/17 17:18	1
Cyanide, Reactive	ND	^	10	10	mg/Kg		06/26/17 02:20	06/26/17 14:35	1
Sulfide, Reactive	ND		10	10	mg/Kg		06/26/17 02:20	06/26/17 15:40	1
pH	8.1	HF	0.1	0.1	SU			06/21/17 07:43	1
Temperature	21.0	HF	0.001	0.001	Degrees C			06/21/17 07:43	1

Client Sample ID: WC-21 20170619

Lab Sample ID: 480-119784-1

Date Collected: 06/19/17 11:30

Matrix: Solid

Date Received: 06/19/17 14:30

Percent Solids: 87.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.047	mg/Kg	☼	06/21/17 16:10	06/22/17 06:00	1
PCB-1221	ND		0.24	0.047	mg/Kg	☼	06/21/17 16:10	06/22/17 06:00	1
PCB-1232	ND		0.24	0.047	mg/Kg	☼	06/21/17 16:10	06/22/17 06:00	1
PCB-1242	ND		0.24	0.047	mg/Kg	☼	06/21/17 16:10	06/22/17 06:00	1
PCB-1248	ND		0.24	0.047	mg/Kg	☼	06/21/17 16:10	06/22/17 06:00	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	06/21/17 16:10	06/22/17 06:00	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	06/21/17 16:10	06/22/17 06:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	122		60 - 154	06/21/17 16:10	06/22/17 06:00	1
DCB Decachlorobiphenyl	129		65 - 174	06/21/17 16:10	06/22/17 06:00	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
LCS 480-363767/4	Lab Control Sample	80	98	97	96
MB 480-363767/7	Method Blank	81	102	94	96

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-119784-1	WC-21 20170619	80	102	97	97
LB 480-363404/1-A	Method Blank	84	100	99	98

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (41-120)	FBP (48-120)	2FP (35-120)	NBZ (46-120)	PHL (22-120)	TPH (59-136)
LCS 480-363663/2-A	Lab Control Sample	112	96	55	86	39	93
LCSD 480-363663/3-A	Lab Control Sample Dup	109	96	56	89	39	95
MB 480-363663/1-A	Method Blank	93	85	44	77	30	87

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = p-Terphenyl-d14 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (41-120)	FBP (48-120)	2FP (35-120)	NBZ (46-120)	PHL (22-120)	TPH (59-136)
480-119784-1	WC-21 20170619	93	88	53	86	35	83
LB 480-363396/1-C	Method Blank	95	91	52	88	36	91

TestAmerica Buffalo

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = p-Terphenyl-d14 (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (60-154)	DCB1 (65-174)
480-119784-1	WC-21 20170619	122	129
480-119784-1 MS	WC-21 20170619	126	121
480-119784-1 MSD	WC-21 20170619	137	131
LCS 480-363250/2-A	Lab Control Sample	133	129
MB 480-363250/1-A	Method Blank	120	123

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-363767/7

Matrix: Solid

Analysis Batch: 363767

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			06/23/17 22:58	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			06/23/17 22:58	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			06/23/17 22:58	1
Benzene	ND		0.0010	0.00041	mg/L			06/23/17 22:58	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			06/23/17 22:58	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			06/23/17 22:58	1
Chloroform	ND		0.0010	0.00034	mg/L			06/23/17 22:58	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			06/23/17 22:58	1
Trichloroethene	ND		0.0010	0.00046	mg/L			06/23/17 22:58	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			06/23/17 22:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		77 - 120		06/23/17 22:58	1
4-Bromofluorobenzene (Surr)	102		73 - 120		06/23/17 22:58	1
Dibromofluoromethane (Surr)	94		75 - 123		06/23/17 22:58	1
Toluene-d8 (Surr)	96		80 - 120		06/23/17 22:58	1

Lab Sample ID: LCS 480-363767/4

Matrix: Solid

Analysis Batch: 363767

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0250	0.0225		mg/L		90	66 - 127
1,2-Dichloroethane	0.0250	0.0199		mg/L		80	75 - 120
2-Butanone (MEK)	0.125	0.0896		mg/L		72	57 - 140
Benzene	0.0250	0.0253		mg/L		101	71 - 124
Carbon tetrachloride	0.0250	0.0229		mg/L		91	72 - 134
Chlorobenzene	0.0250	0.0252		mg/L		101	80 - 120
Chloroform	0.0250	0.0234		mg/L		94	73 - 127
Tetrachloroethene	0.0250	0.0242		mg/L		97	74 - 122
Trichloroethene	0.0250	0.0241		mg/L		97	74 - 123
Vinyl chloride	0.0250	0.0216		mg/L		86	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	80		77 - 120
4-Bromofluorobenzene (Surr)	98		73 - 120
Dibromofluoromethane (Surr)	97		75 - 123
Toluene-d8 (Surr)	96		80 - 120

Lab Sample ID: LB 480-363404/1-A

Matrix: Solid

Analysis Batch: 363767

Client Sample ID: Method Blank

Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			06/23/17 23:52	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			06/23/17 23:52	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			06/23/17 23:52	10

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB 480-363404/1-A
Matrix: Solid
Analysis Batch: 363767

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.010	0.0041	mg/L			06/23/17 23:52	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			06/23/17 23:52	10
Chlorobenzene	ND		0.010	0.0075	mg/L			06/23/17 23:52	10
Chloroform	ND		0.010	0.0034	mg/L			06/23/17 23:52	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			06/23/17 23:52	10
Trichloroethene	ND		0.010	0.0046	mg/L			06/23/17 23:52	10
Vinyl chloride	ND		0.010	0.0090	mg/L			06/23/17 23:52	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		77 - 120					06/23/17 23:52	10
4-Bromofluorobenzene (Surr)	100		73 - 120					06/23/17 23:52	10
Dibromofluoromethane (Surr)	99		75 - 123					06/23/17 23:52	10
Toluene-d8 (Surr)	98		80 - 120					06/23/17 23:52	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-363663/1-A
Matrix: Solid
Analysis Batch: 363970

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363663

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dichlorobenzene	ND		0.0025	0.00012	mg/L		06/23/17 11:19	06/26/17 13:34	1
2,4,5-Trichlorophenol	ND		0.0013	0.00012	mg/L		06/23/17 11:19	06/26/17 13:34	1
2,4,6-Trichlorophenol	ND		0.0013	0.00015	mg/L		06/23/17 11:19	06/26/17 13:34	1
2,4-Dinitrotoluene	ND		0.0013	0.00011	mg/L		06/23/17 11:19	06/26/17 13:34	1
2-Methylphenol	ND		0.0013	0.00010	mg/L		06/23/17 11:19	06/26/17 13:34	1
3-Methylphenol	ND		0.0025	0.00010	mg/L		06/23/17 11:19	06/26/17 13:34	1
4-Methylphenol	ND		0.0025	0.000090	mg/L		06/23/17 11:19	06/26/17 13:34	1
Hexachlorobenzene	ND		0.0013	0.00013	mg/L		06/23/17 11:19	06/26/17 13:34	1
Hexachlorobutadiene	ND		0.0013	0.00017	mg/L		06/23/17 11:19	06/26/17 13:34	1
Hexachloroethane	ND		0.0013	0.00015	mg/L		06/23/17 11:19	06/26/17 13:34	1
Nitrobenzene	ND		0.0013	0.000073	mg/L		06/23/17 11:19	06/26/17 13:34	1
Pentachlorophenol	ND		0.0025	0.00055	mg/L		06/23/17 11:19	06/26/17 13:34	1
Pyridine	ND		0.0063	0.00010	mg/L		06/23/17 11:19	06/26/17 13:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	93		41 - 120				06/23/17 11:19	06/26/17 13:34	1
2-Fluorobiphenyl	85		48 - 120				06/23/17 11:19	06/26/17 13:34	1
2-Fluorophenol (Surr)	44		35 - 120				06/23/17 11:19	06/26/17 13:34	1
Nitrobenzene-d5 (Surr)	77		46 - 120				06/23/17 11:19	06/26/17 13:34	1
Phenol-d5 (Surr)	30		22 - 120				06/23/17 11:19	06/26/17 13:34	1
p-Terphenyl-d14 (Surr)	87		59 - 136				06/23/17 11:19	06/26/17 13:34	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-363663/2-A

Matrix: Solid

Analysis Batch: 363970

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 363663

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,4-Dichlorobenzene	0.0500	0.0376		mg/L		75	51 - 120
2,4,5-Trichlorophenol	0.0500	0.0529		mg/L		106	65 - 126
2,4,6-Trichlorophenol	0.0500	0.0513		mg/L		103	64 - 120
2,4-Dinitrotoluene	0.0500	0.0508		mg/L		102	69 - 120
2-Methylphenol	0.0500	0.0437		mg/L		87	39 - 120
3-Methylphenol	0.0500	0.0393		mg/L		79	39 - 120
4-Methylphenol	0.0500	0.0393		mg/L		79	29 - 131
Hexachlorobenzene	0.0500	0.0587		mg/L		117	61 - 120
Hexachlorobutadiene	0.0500	0.0384		mg/L		77	35 - 120
Hexachloroethane	0.0500	0.0369		mg/L		74	43 - 120
Nitrobenzene	0.0500	0.0463		mg/L		93	53 - 123
Pentachlorophenol	0.100	0.0918		mg/L		92	29 - 136
Pyridine	0.100	0.0610		mg/L		61	10 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	112		41 - 120
2-Fluorobiphenyl	96		48 - 120
2-Fluorophenol (Surr)	55		35 - 120
Nitrobenzene-d5 (Surr)	86		46 - 120
Phenol-d5 (Surr)	39		22 - 120
p-Terphenyl-d14 (Surr)	93		59 - 136

Lab Sample ID: LCSD 480-363663/3-A

Matrix: Solid

Analysis Batch: 363970

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 363663

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dichlorobenzene	0.0500	0.0332		mg/L		66	51 - 120	12	36
2,4,5-Trichlorophenol	0.0500	0.0511		mg/L		102	65 - 126	4	18
2,4,6-Trichlorophenol	0.0500	0.0505		mg/L		101	64 - 120	2	19
2,4-Dinitrotoluene	0.0500	0.0518		mg/L		104	69 - 120	2	20
2-Methylphenol	0.0500	0.0434		mg/L		87	39 - 120	1	27
3-Methylphenol	0.0500	0.0418		mg/L		84	39 - 120	6	30
4-Methylphenol	0.0500	0.0418		mg/L		84	29 - 131	6	24
Hexachlorobenzene	0.0500	0.0539		mg/L		108	61 - 120	9	15
Hexachlorobutadiene	0.0500	0.0344		mg/L		69	35 - 120	11	44
Hexachloroethane	0.0500	0.0312		mg/L		62	43 - 120	17	46
Nitrobenzene	0.0500	0.0454		mg/L		91	53 - 123	2	24
Pentachlorophenol	0.100	0.0874		mg/L		87	29 - 136	5	37
Pyridine	0.100	0.0603		mg/L		60	10 - 120	1	49

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	109		41 - 120
2-Fluorobiphenyl	96		48 - 120
2-Fluorophenol (Surr)	56		35 - 120
Nitrobenzene-d5 (Surr)	89		46 - 120
Phenol-d5 (Surr)	39		22 - 120

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-363663/3-A
Matrix: Solid
Analysis Batch: 363970

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 363663

Surrogate	<i>LCSD</i> %Recovery	<i>LCSD</i> Qualifier	Limits
<i>p</i> -Terphenyl-d14 (Surr)	95		59 - 136

Lab Sample ID: LB 480-363396/1-C
Matrix: Solid
Analysis Batch: 363970

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 363663

Analyte	<i>LB</i> Result	<i>LB</i> Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		06/23/17 11:19	06/26/17 14:53	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		06/23/17 11:19	06/26/17 14:53	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		06/23/17 11:19	06/26/17 14:53	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		06/23/17 11:19	06/26/17 14:53	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		06/23/17 11:19	06/26/17 14:53	1
3-Methylphenol	ND		0.010	0.00040	mg/L		06/23/17 11:19	06/26/17 14:53	1
4-Methylphenol	ND		0.010	0.00036	mg/L		06/23/17 11:19	06/26/17 14:53	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		06/23/17 11:19	06/26/17 14:53	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		06/23/17 11:19	06/26/17 14:53	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		06/23/17 11:19	06/26/17 14:53	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		06/23/17 11:19	06/26/17 14:53	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		06/23/17 11:19	06/26/17 14:53	1
Pyridine	ND		0.025	0.00041	mg/L		06/23/17 11:19	06/26/17 14:53	1

Surrogate	<i>LB</i> %Recovery	<i>LB</i> Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>2,4,6</i> -Tribromophenol (Surr)	95		41 - 120	06/23/17 11:19	06/26/17 14:53	1
<i>2</i> -Fluorobiphenyl	91		48 - 120	06/23/17 11:19	06/26/17 14:53	1
<i>2</i> -Fluorophenol (Surr)	52		35 - 120	06/23/17 11:19	06/26/17 14:53	1
<i>Nitrobenzene</i> -d5 (Surr)	88		46 - 120	06/23/17 11:19	06/26/17 14:53	1
<i>Phenol</i> -d5 (Surr)	36		22 - 120	06/23/17 11:19	06/26/17 14:53	1
<i>p</i> -Terphenyl-d14 (Surr)	91		59 - 136	06/23/17 11:19	06/26/17 14:53	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-363250/1-A
Matrix: Solid
Analysis Batch: 363263

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363250

Analyte	<i>MB</i> Result	<i>MB</i> Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.038	mg/Kg		06/21/17 16:10	06/22/17 04:56	1
PCB-1221	ND		0.20	0.038	mg/Kg		06/21/17 16:10	06/22/17 04:56	1
PCB-1232	ND		0.20	0.038	mg/Kg		06/21/17 16:10	06/22/17 04:56	1
PCB-1242	ND		0.20	0.038	mg/Kg		06/21/17 16:10	06/22/17 04:56	1
PCB-1248	ND		0.20	0.038	mg/Kg		06/21/17 16:10	06/22/17 04:56	1
PCB-1254	ND		0.20	0.092	mg/Kg		06/21/17 16:10	06/22/17 04:56	1
PCB-1260	ND		0.20	0.092	mg/Kg		06/21/17 16:10	06/22/17 04:56	1

Surrogate	<i>MB</i> %Recovery	<i>MB</i> Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Tetrachloro</i> - <i>m</i> -xylene	120		60 - 154	06/21/17 16:10	06/22/17 04:56	1
<i>DCB</i> Decachlorobiphenyl	123		65 - 174	06/21/17 16:10	06/22/17 04:56	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Lab Sample ID: LCS 480-363250/2-A
Matrix: Solid
Analysis Batch: 363263

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363250

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
PCB-1016	1.85	2.47		mg/Kg		134	51 - 185	
PCB-1260	1.85	2.42		mg/Kg		130	61 - 184	
Surrogate		LCS %Recovery	LCS Qualifier	Limits				
Tetrachloro-m-xylene		133		60 - 154				
DCB Decachlorobiphenyl		129		65 - 174				

Lab Sample ID: 480-119784-1 MS
Matrix: Solid
Analysis Batch: 363263

Client Sample ID: WC-21 20170619
Prep Type: Total/NA
Prep Batch: 363250

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
PCB-1016	ND		2.77	3.33		mg/Kg	☼	120	50 - 177	
PCB-1260	ND		2.77	3.20		mg/Kg	☼	116	33 - 200	
Surrogate		MS %Recovery	MS Qualifier	Limits						
Tetrachloro-m-xylene		126		60 - 154						
DCB Decachlorobiphenyl		121		65 - 174						

Lab Sample ID: 480-119784-1 MSD
Matrix: Solid
Analysis Batch: 363263

Client Sample ID: WC-21 20170619
Prep Type: Total/NA
Prep Batch: 363250

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD Limit	
											RPD	Limit
PCB-1016	ND		2.68	3.53		mg/Kg	☼	132	50 - 177		6	50
PCB-1260	ND		2.68	3.45		mg/Kg	☼	129	33 - 200		8	50
Surrogate		MSD %Recovery	MSD Qualifier	Limits								
Tetrachloro-m-xylene		137		60 - 154								
DCB Decachlorobiphenyl		131		65 - 174								

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-363661/2-A
Matrix: Solid
Analysis Batch: 364022

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363661

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		06/23/17 11:30	06/26/17 12:34			1
Barium	ND		1.0	0.10	mg/L		06/23/17 11:30	06/26/17 12:34			1
Cadmium	ND		0.0020	0.00050	mg/L		06/23/17 11:30	06/26/17 12:34			1
Chromium	ND		0.020	0.010	mg/L		06/23/17 11:30	06/26/17 12:34			1
Lead	ND		0.020	0.0030	mg/L		06/23/17 11:30	06/26/17 12:34			1
Selenium	ND		0.025	0.0087	mg/L		06/23/17 11:30	06/26/17 12:34			1
Silver	ND		0.0060	0.0017	mg/L		06/23/17 11:30	06/26/17 12:34			1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-363661/3-A
Matrix: Solid
Analysis Batch: 364022

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363661

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	1.00	1.10		mg/L		110	80 - 120
Barium	1.00	1.00		mg/L		100	80 - 120
Cadmium	1.00	1.09		mg/L		109	80 - 120
Chromium	1.00	1.02		mg/L		102	80 - 120
Lead	1.00	1.03		mg/L		103	80 - 120
Selenium	1.00	1.13		mg/L		113	80 - 120
Silver	1.00	1.11		mg/L		111	80 - 120

Lab Sample ID: LB 480-363396/1-B
Matrix: Solid
Analysis Batch: 364022

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 363661

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00837	J	0.015	0.0056	mg/L		06/23/17 11:30	06/26/17 12:31	1
Barium	ND		1.0	0.10	mg/L		06/23/17 11:30	06/26/17 12:31	1
Cadmium	ND		0.0020	0.00050	mg/L		06/23/17 11:30	06/26/17 12:31	1
Chromium	ND		0.020	0.010	mg/L		06/23/17 11:30	06/26/17 12:31	1
Lead	ND		0.020	0.0030	mg/L		06/23/17 11:30	06/26/17 12:31	1
Selenium	ND		0.025	0.0087	mg/L		06/23/17 11:30	06/26/17 12:31	1
Silver	ND		0.0060	0.0017	mg/L		06/23/17 11:30	06/26/17 12:31	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-363664/2-A
Matrix: Solid
Analysis Batch: 363974

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363664

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		06/23/17 12:00	06/23/17 16:08	1

Lab Sample ID: LCS 480-363664/3-A
Matrix: Solid
Analysis Batch: 363974

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00668	0.00578		mg/L		87	80 - 120

Lab Sample ID: LB 480-363396/1-D
Matrix: Solid
Analysis Batch: 363974

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 363664

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		06/23/17 12:00	06/23/17 16:06	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-363838/1
Matrix: Solid
Analysis Batch: 363838

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	82.00		Degrees F		101	97.5 - 102.5

Lab Sample ID: 480-119784-1 DU
Matrix: Solid
Analysis Batch: 363838

Client Sample ID: WC-21 20170619
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Flashpoint	>176.0		>176.0		Degrees F		NC	10

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-363982/1-A
Matrix: Solid
Analysis Batch: 364038

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363982

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10.0	10.0	mg/Kg		06/26/17 02:20	06/26/17 14:35	1

Lab Sample ID: LCS 480-363982/2-A
Matrix: Solid
Analysis Batch: 364038

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363982

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Reactive	1000	305.0		mg/Kg		31	10 - 100

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-363998/1-A
Matrix: Solid
Analysis Batch: 364040

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363998

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		10.0	10.0	mg/Kg		06/26/17 02:20	06/26/17 15:40	1

Lab Sample ID: LCS 480-363998/2-A
Matrix: Solid
Analysis Batch: 364040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363998

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide, Reactive	900	721.4		mg/Kg		80	10 - 100

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Method: 9045D - pH

Lab Sample ID: LCS 480-363238/1
 Matrix: Solid
 Analysis Batch: 363238

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

Lab Sample ID: 480-119784-1 DU
 Matrix: Solid
 Analysis Batch: 363238

Client Sample ID: WC-21 20170619
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.1	HF	8.2		SU		0.9	5
Temperature	21.0	HF	20.9		Degrees C		0.5	10

Method: 9095B - Paint Filter

Lab Sample ID: 480-119784-1 DU
 Matrix: Solid
 Analysis Batch: 363047

Client Sample ID: WC-21 20170619
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Free Liquid	passed		passed		mL/100g		NC	

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

GC/MS VOA

Leach Batch: 363404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	TCLP	Solid	1311	
LB 480-363404/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 363767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	TCLP	Solid	8260C	363404
LB 480-363404/1-A	Method Blank	TCLP	Solid	8260C	363404
MB 480-363767/7	Method Blank	Total/NA	Solid	8260C	
LCS 480-363767/4	Lab Control Sample	Total/NA	Solid	8260C	

GC/MS Semi VOA

Leach Batch: 363396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	TCLP	Solid	1311	
LB 480-363396/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 363663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	TCLP	Solid	3510C	363396
LB 480-363396/1-C	Method Blank	TCLP	Solid	3510C	363396
MB 480-363663/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-363663/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-363663/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 363970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	TCLP	Solid	8270D	363663
LB 480-363396/1-C	Method Blank	TCLP	Solid	8270D	363663
MB 480-363663/1-A	Method Blank	Total/NA	Solid	8270D	363663
LCS 480-363663/2-A	Lab Control Sample	Total/NA	Solid	8270D	363663
LCSD 480-363663/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	363663

GC Semi VOA

Prep Batch: 363250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	Total/NA	Solid	3550C	
MB 480-363250/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-363250/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-119784-1 MS	WC-21 20170619	Total/NA	Solid	3550C	
480-119784-1 MSD	WC-21 20170619	Total/NA	Solid	3550C	

Analysis Batch: 363263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	Total/NA	Solid	8082A	363250
MB 480-363250/1-A	Method Blank	Total/NA	Solid	8082A	363250
LCS 480-363250/2-A	Lab Control Sample	Total/NA	Solid	8082A	363250
480-119784-1 MS	WC-21 20170619	Total/NA	Solid	8082A	363250
480-119784-1 MSD	WC-21 20170619	Total/NA	Solid	8082A	363250

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Metals

Leach Batch: 363396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	TCLP	Solid	1311	
LB 480-363396/1-B	Method Blank	TCLP	Solid	1311	
LB 480-363396/1-D	Method Blank	TCLP	Solid	1311	

Prep Batch: 363661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	TCLP	Solid	3010A	363396
LB 480-363396/1-B	Method Blank	TCLP	Solid	3010A	363396
MB 480-363661/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 480-363661/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 363664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	TCLP	Solid	7470A	363396
LB 480-363396/1-D	Method Blank	TCLP	Solid	7470A	363396
MB 480-363664/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 480-363664/3-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 363974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	TCLP	Solid	7470A	363664
LB 480-363396/1-D	Method Blank	TCLP	Solid	7470A	363664
MB 480-363664/2-A	Method Blank	Total/NA	Solid	7470A	363664
LCS 480-363664/3-A	Lab Control Sample	Total/NA	Solid	7470A	363664

Analysis Batch: 364022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	TCLP	Solid	6010C	363661
LB 480-363396/1-B	Method Blank	TCLP	Solid	6010C	363661
MB 480-363661/2-A	Method Blank	Total/NA	Solid	6010C	363661
LCS 480-363661/3-A	Lab Control Sample	Total/NA	Solid	6010C	363661

General Chemistry

Analysis Batch: 362843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	Total/NA	Solid	Moisture	

Analysis Batch: 363047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	Total/NA	Solid	9095B	
480-119784-1 DU	WC-21 20170619	Total/NA	Solid	9095B	

Analysis Batch: 363238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	Total/NA	Solid	9045D	
LCS 480-363238/1	Lab Control Sample	Total/NA	Solid	9045D	
480-119784-1 DU	WC-21 20170619	Total/NA	Solid	9045D	

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

General Chemistry (Continued)

Analysis Batch: 363838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	Total/NA	Solid	1010A	
LCS 480-363838/1	Lab Control Sample	Total/NA	Solid	1010A	
480-119784-1 DU	WC-21 20170619	Total/NA	Solid	1010A	

Prep Batch: 363982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	Total/NA	Solid	7.3.3	
MB 480-363982/1-A	Method Blank	Total/NA	Solid	7.3.3	
LCS 480-363982/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	

Prep Batch: 363998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	Total/NA	Solid	7.3.4	
MB 480-363998/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 480-363998/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	

Analysis Batch: 364038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	Total/NA	Solid	9012	363982
MB 480-363982/1-A	Method Blank	Total/NA	Solid	9012	363982
LCS 480-363982/2-A	Lab Control Sample	Total/NA	Solid	9012	363982

Analysis Batch: 364040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-119784-1	WC-21 20170619	Total/NA	Solid	9034	363998
MB 480-363998/1-A	Method Blank	Total/NA	Solid	9034	363998
LCS 480-363998/2-A	Lab Control Sample	Total/NA	Solid	9034	363998

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Client Sample ID: WC-21 20170619

Lab Sample ID: 480-119784-1

Date Collected: 06/19/17 11:30

Matrix: Solid

Date Received: 06/19/17 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			363404	06/22/17 11:07	MAS	TAL BUF
TCLP	Analysis	8260C		10	363767	06/24/17 06:27	RJF	TAL BUF
TCLP	Leach	1311			363396	06/22/17 10:46	MAS	TAL BUF
TCLP	Prep	3510C			363663	06/23/17 11:19	NMC	TAL BUF
TCLP	Analysis	8270D		1	363970	06/26/17 13:08	MKP	TAL BUF
TCLP	Leach	1311			363396	06/22/17 10:46	MAS	TAL BUF
TCLP	Prep	3010A			363661	06/23/17 11:30	BMB	TAL BUF
TCLP	Analysis	6010C		1	364022	06/26/17 13:18	AMH	TAL BUF
TCLP	Leach	1311			363396	06/22/17 10:46	MAS	TAL BUF
TCLP	Prep	7470A			363664	06/23/17 12:00	MVZ	TAL BUF
TCLP	Analysis	7470A		1	363974	06/23/17 16:23	MVZ	TAL BUF
Total/NA	Analysis	1010A		1	363838	06/24/17 17:18	JCL	TAL BUF
Total/NA	Prep	7.3.3			363982	06/26/17 02:20	LAW	TAL BUF
Total/NA	Analysis	9012		1	364038	06/26/17 14:35	MDL	TAL BUF
Total/NA	Prep	7.3.4			363998	06/26/17 02:20	LAW	TAL BUF
Total/NA	Analysis	9034		1	364040	06/26/17 15:40	MDL	TAL BUF
Total/NA	Analysis	9045D		1	363238	06/21/17 07:43	ALZ	TAL BUF
Total/NA	Analysis	9095B		1	363047	06/20/17 19:40	ALZ	TAL BUF
Total/NA	Analysis	Moisture		1	362843	06/20/17 03:59	CSW	TAL BUF

Client Sample ID: WC-21 20170619

Lab Sample ID: 480-119784-1

Date Collected: 06/19/17 11:30

Matrix: Solid

Date Received: 06/19/17 14:30

Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			363250	06/21/17 16:10	MAS	TAL BUF
Total/NA	Analysis	8082A		1	363263	06/22/17 06:00	JMO	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
9012	7.3.3	Solid	Cyanide, Reactive
9034	7.3.4	Solid	Sulfide, Reactive
9045D		Solid	Temperature
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
9045D	pH	SW846	TAL BUF
9095B	Paint Filter	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Flexo Transparent

TestAmerica Job ID: 480-119784-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-119784-1	WC-21 20170619	Solid	06/19/17 11:30	06/19/17 14:30

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Company Name: ALCADIS Address: 50 Fambach Plaza City/State/Zip: Buffalo, NY 14202 Phone: 716-667-0900 Fax: Project Name: Fkx0 Site: Wasson St P O #:		Client Contact Project Manager: Katherine Chabine Regulatory Program: <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other: Tel/Fax:		Site Contact: J. Bauer Date: 6/19/17 Carrier: Depoff COC No.: _____ of _____ COCs	
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below: <u>3 Day</u> <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Lab Contact: Melissa Devo Perform MS / MSD (Y / N) Filtered Sample (Y / N)		Sampler: For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:	
Sample Identification WC-21 20170619		Sample Date: 6-19-17 11:30 Sample Time: Sample Type (C=Comp, G=Grab): Soil Matrix: Soil # of Cont: 06		Carrier: Depoff 480-119784 COC 	
Sample Specific Notes:		Perform MS / MSD (Y / N) Filtered Sample (Y / N)		Sample Specific Notes:	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other		Special Instructions/QC Requirements & Comments:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months	
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Unknown		Received by: <u>Katherine Chabine</u> Date/Time: 6/19/17 11:30 Company: ALCADIS		Received by: <u>FA Det.</u> Date/Time: 6/19/17 1930 Company:	
Relinquished by: Katherine Chabine Date/Time: Company:		Relinquished by: Date/Time: Company:		Relinquished by: Date/Time: Company:	



Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-119784-1

Login Number: 119784

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
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 sample IDs on the containers 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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

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