



**OFF-SITE ENVIRONMENTAL  
CHARACTERIZATION REPORT  
COYNE TEXTILE SERVICES  
140 CORTLAND AVENUE &  
207 WEST TAYLOR STREET  
SYRACUSE, NEW YORK  
BCP SITE NUMBER C734144**

**PREPARED FOR:**

Coyne Textile Services  
140 Cortland Avenue  
Syracuse, New York 13221

**PREPARED BY:**

GZA GeoEnvironmental of New York  
Buffalo, New York

August 2015  
21.0056730.40

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**VIA EMAIL**

August 26, 2015  
File No. 21.0056730.40

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Re: Off-Site Environmental Characterization Report  
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Dear Mr. Pobedinsky:

GeoEnvironmental of New York (GZA) has prepared this report describing the results of our Off-Site Environmental Characterization Report at the above referenced Site. GZA developed a scope of work based upon the findings of the previously conducted Phase II and Phase III Environmental Site Assessments (ESAs). The objective of the environmental characterization was to determine the presence or absence of off-Site contamination associated with chlorinated volatile organic compound (cVOC) impact identified under the northwest portion of the 140 Cortland Avenue facility; and if confirmed present, to characterize the lateral and vertical presence of the off-Site contamination.

Based on the data from this investigation, GZA expects that additional investigation, mitigation, and monitoring will be required at the Site under the Brownfield Cleanup Program (BCP). GZA recommends providing this report to the New York State Department of Environmental Conservation (NYSDEC) for review. The results of this Environmental Characterization Report will be incorporated into the upcoming Remedial Investigation (RI) activities under the BCP to further characterize on- and off -Site impact.

We note that if impacted soil and/or groundwater is encountered or media-derived waste is generated during future construction activities, this material should be managed in accordance with local, state and federal regulations.

We trust this report satisfies your present needs. Should you have any questions or require additional information following your review, please do not hesitate to contact Tom Bohlen at (716) 844-7050.

Sincerely,

GZA GEOENVIRONMENTAL, INC.



A handwritten signature in blue ink that reads "Thomas Bohlen". The signature is written in a cursive style with a large initial 'T'.

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Principal-In-Charge

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## 1.00 INTRODUCTION



In accordance with our June 24, 2015 proposal, GZA GeoEnvironmental of New York (GZA) performed Off-Site Environmental Characterization in the City of Syracuse right-of-way, west of the 140 Cortland Avenue facility in Syracuse, New York (Site) for Coyne Textile Services (Client or CTS). A Locus Plan is attached as Figure 1 and a Site Plan is attached as Figure 2. This work included the installation and associated development, environmental sampling, and analysis of four nested monitoring well clusters proximate to South Clinton Street.

### BACKGROUND

#### Phase I Environmental Site Assessment

GZA completed a Phase I Environmental Site Assessment<sup>1</sup> at the Site that identified the following recognized environmental conditions (RECs).

- **Historical Dry Cleaning Operations (140 Cortland Avenue):** Tetrachloroethene (PCE) and other dry cleaning solvents were used at the 140 Cortland Avenue facility until 2000. Additionally, dry cleaning solvents (Stoddard solvent) were identified as being stored in underground storage tanks (USTs) located under the floor in the dry cleaning room. Mr. Robert Rudd, Vice President of Engineering and Maintenance for Coyne Textile Services, later indicated that these USTs were used as “mop oil” tanks and did not contain Stoddard solvent. The USTs were “closed-in-place” in 1986. No closure documentation was provided for these tanks. The potential exists that these USTs and dry cleaning operations have impacted the soil and/or groundwater at the Site.
- **Former Gasoline Station (140 Cortland Avenue):** A gasoline station was formerly present in the southern portion of the property (location of circa 1980s expansion).
- **Boiler Area UST (140 Cortland Avenue):** An out-of-service underground storage tank (UST) for heating oil is located under the floor in the main boiler room of 140 Cortland Avenue building property.
- **In-Ground Hydraulic Lifts (140 Cortland Avenue):** Two in-ground hydraulic truck lifts are located in the main laundry building. The lifts appeared to be in good condition, with no signs of significant surficial leaks or spills observed; however GZA was unable to make subsurface observations of the in-ground hydraulic truck lifts. Additionally, the General Manager and Plant Manager were not aware of when the lifts were installed. The potential exists that releases from these lifts have

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<sup>1</sup> “Phase I Environmental Site Assessment, Coyne Textile Services, 140 Cortland Avenue & 207 West Taylor Street, Syracuse, New York” completed for Coyne Textile Services by GZA dated October 16, 2014.



impacted the soil and/or groundwater at the Site. Mr. Rudd later indicated that these lifts are aboveground lifts with no subsurface components.

- **Employee Parking Area Previous Uses:** The Employee Parking area was utilized as a bus garage/repair facility and a filling station from the early 1900s to the 1970s.
- **Historical USTs (207 West Taylor Street):** Petroleum USTs were historically used at the 207 West Taylor Street property. These tanks were removed in 1986. However, no closure documentation was provided for these tanks. Additionally, GZA observed two yellow steel pipes and two round covers adjacent to the steel pipes on the northern exterior of the 207 West Taylor Street fleet truck maintenance building. The purpose and function of these structures are unknown, and may be associated with USTs. The potential exists that USTs may have leaked or impacted the Site.
- **Historical Dry Cleaning and Automotive Repair (207 West Taylor Street):** This property was occupied by a variety of commercial/industrial users since the mid-1930s. Uses included a freight lines facility, metal products factory, maintenance garage, and dry cleaning plant. It is unknown what, if any, impacts have resulted from the former uses of the property.
- **Staining around Fuel Dispenser and AST (207 West Taylor Street):** Noticeable staining was observed on the asphalt underneath and adjacent to the 2,000 gallon diesel fuel aboveground storage tank (AST) and dispenser pump. Potential exists for environmental impacts related to this operation.
- **Adjoining and area properties:** The surrounding area has been historically used for industrial purposes for over 100 years. Multiple adjoining properties were identified on the federal and state databases reviewed, confirming the historical usage of hazardous materials and petroleum products. Several NY Spills and LTANKS listings are associated with these adjoining properties and document releases in the vicinity of the Site. A US Brownfield site adjoins the Site to the east, in an assumed upgradient groundwater direction from the Site. Potential releases from the surrounding area may have impacted the Site soil and/or groundwater.

It was GZA's opinion that a subsurface investigation, to include subsurface soil and groundwater sampling and analyses, would be necessary to assess the presence or absence of contaminants in the environment associated with the identified RECs.

## **Phase II Environmental Site Assessment**

GZA completed a Phase II Environmental Site Assessment<sup>2</sup> at the Site that investigated the RECs. Twenty-three soil borings and soil samples were completed and collected along with

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<sup>2</sup> "Phase II Environmental Site Assessment, Coyne Textile Services, 140 Cortland Avenue & 207 West Taylor Street, Syracuse, New York" completed for Coyne Textile Services by GZA dated January 2015.



the collection of two groundwater samples during the Phase II ESA, all of which were analyzed for VOCs, SVOCs, and metals. The Phase II ESA had the following conclusions:

- **Employee Parking Area (140 Cortland Avenue):** During drilling for the installation of a temporary groundwater monitoring well (TMW-2), GZA observed an oil-like sheen on the groundwater and a related photo-ionization detector (PID) meter response from the soil. GZA recommended that the Client call in a spill to NYSDEC for this location. NYSDEC issued Spill # 1408779. Follow-up laboratory analytical results identified the presence of low level volatile organic compounds (VOCs), as well as elevated semi-volatile organic compounds (SVOCs) and metals, some in exceedance of New York State Department of Environmental Conservation (NYSDEC) Part 375 Site Cleanup Objectives (SCOs).
- **Boiler Area UST (140 Cortland Avenue):** SB-4 was advanced five feet east of a former oil heated boiler room, located inside the central portion of the 140 Cortland Avenue Site building. Although the boiler room is now heated with natural gas, reportedly an out-of-service UST formerly used to store heating oil was located under the floor in the main boiler room. Due to the confines of the boiler room, a probe was not completed inside. In addition, a probe was not installed west (estimated down-gradient) of the boiler room because high voltage electric lines and high pressure natural gas lines enter the facility at that location.

Follow-up analytical results for SB-4 indicated some low level VOC concentrations not exceeding Residential Use SCOs.

- **Staining around Fuel Dispenser and AST (207 West Taylor Street):** SB-15 and SB-16 were advanced in close proximity to each other and were advanced in an area of petroleum-stained pavement and a 2,000-gallon diesel fuel AST. Follow-up analytical results for SB-15 and SB-16 show SVOC concentrations exceeding Commercial and Industrial SCOs, with SB-16 also showing arsenic, copper and mercury exceedances.
- **Historical Dry Cleaning Operations (140 Cortland Avenue):** Interior sampling should be re-attempted in the areas of the chemical storage and distribution room (former dry cleaning units) (SB-5) and in the area of the laundry machines and floor trenches (SB-6) after confirmation of safe working conditions relative to VOCs in the breathing air. GZA notes that this area was investigated during the Phase III ESA summarized below.

### **Phase III Environmental Site Assessment**

GZA completed a Phase III Environmental Site Assessment<sup>3</sup> at the Site to further delineate the vertical and horizontal extent of petroleum contamination encountered at TMW-2 in association with NYSDEC Spill #1408779, and to further investigate subsurface soil and

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<sup>3</sup> “Phase III Environmental Site Assessment, Coyne Textile Services, 140 Cortland Avenue & 207 West Taylor Street, Syracuse, New York” completed for Coyne Textile Services by GZA dated April 2015.

groundwater conditions at the 140 Cortland Avenue facility near the boiler room, in the dry cleaning area, and near the AST at 207 West Taylor Street. Twenty-three soil borings were completed and 25 soil samples were collected along with the collection of eight groundwater samples for chemical analysis, which included VOCs and SVOCs. The Phase III ESA had the following conclusions:



- **Employee Parking Area:** As noted above, during the Phase II ESA, spill number 1408779 was assigned by NYSDEC. GZA noted that NYSDEC closed spill number 1408779 on March 30, 2015. The spill was closed for administrative reasons and was consolidated with spill number 1412187 (140 Cortland Avenue PCE release, discussed below). TMW-2 was located near the western side of the parking lot. Six additional borings were installed in this area during the Phase III in an effort to delineate the petroleum impact. VOC concentrations from submitted soil samples did not exceed NYSDEC SCOs for residential use. One SVOC, benzo [a] pyrene at 3,230 ug/kg, exceeded its industrial use SCO of 1,100 ug/kg at MW-3.

Three permanent groundwater wells (MW-1, MW-2, and MW-3) were installed in this area, surrounding TMW-2. Groundwater analytical results from MW-1 were below method detection limits for VOCs and SVOCs. Five VOCs significantly exceeded their respective NYSDEC groundwater standards at MW-2. Five VOCs and one SVOC significantly exceeded their respective groundwater standards at MW-3. Further delineation to the west was not performed due to the presence of Cortland Avenue.

Potential additional actions were listed to include:

- additional delineation of the extent of impacted groundwater;
  - investigation/mitigation of vapor intrusion at the 140 Cortland Avenue building directly across the street; and
  - remediation of the impacted groundwater.
- **140 Cortland Avenue:**

***Chemical Storage Room:***

Elevated concentrations of chlorinated volatile organic compounds (cVOCs) were detected in soil and groundwater samples from one boring (SB-32) located in the Chemical Storage Room at the 140 Cortland Avenue facility. Coyne representatives reported the release to NYSDEC on March 27, 2015. New spill number 1412187 was opened for this release by NYSDEC. Concentrations of cVOCs exceeded NYSDEC soil cleanup objectives for property of industrial use. Groundwater from this same boring exceeded drinking water standards for cVOCs. The extent of this contamination is unknown because additional subsurface investigation within the 140 Cortland Avenue building is not feasible due to current facility usage and subsurface obstacles. The cVOC-impacted soil and groundwater encountered at SB-32 is near the western boundary of the Coyne property. Therefore, off-Site migration of cVOC contaminated groundwater was determined to be possible. Also, concentrations of cVOCs in soil and groundwater warranted



investigation of vapor intrusion from the subslab soil into the indoor air within the Coyne facility.

Potential actions for this issue were listed to include:

- Further delineation of the extent of soil and groundwater contamination;
- Testing for soil vapor intrusion of cVOCs to indoor air both on-site and off-site;
- Installation of soil vapor intrusion (SVI) mitigation system(s); and
- Soil and groundwater remediation and monitoring.

***Boiler Room and UST:***

Six borings were installed during the Phase III in the vicinity of Phase II boring SB-4 in an effort to delineate low level VOCs assumed to be associated with the boiler room and out-of-service UST. VOC and SVOC concentrations in soil from the six borings did not exceed NYSDEC residential use criteria. Just one VOC, benzene (37.7 ug/L), was detected in groundwater sample SB-30 at a concentration exceeding NYSDEC groundwater criteria (1 ug/L).

GZA expects that the limited groundwater impact at this location could be addressed as part of mitigation and/or remedial actions performed to address other areas of the facility.

- **207 West Taylor Street:** Seven additional borings were installed in the vicinity of the fuel dispenser and AST. VOC concentrations from submitted soil samples did not exceed NYSDEC industrial use criteria. Four polycyclic aromatic hydrocarbon (PAH) SVOCs from three soil borings east and north of the AST exceeded their respective industrial soil use criteria. These exceedances may be representative of the fill material from which the samples were collected.

One temporary groundwater monitoring well (SB-35) was installed in this area. Five VOCs significantly exceeded their respective NYSDEC Groundwater criteria.

Because the Site is currently covered almost entirely by buildings with concrete slab foundations and paved surfaces, there is presently no direct route of human exposure to the soil and groundwater contaminants. The surrounding area is provided with publicly-supplied potable water. Potential exposure to VOCs by soil vapor intrusion may exist but is yet undetermined. GZA noted that if soil/fill and/or groundwater is encountered during future construction or maintenance activities, proper personal protective measures are recommended and materials should be managed in accordance with local, state and federal regulations.

Based on the data from the Phase II and III ESAs, GZA expected that additional investigation, mitigation, and monitoring will be required at this Site. A conference with the NYSDEC after their review of this Phase III report was recommended to identify next steps and regulatory options. GZA and the Client attended a meeting with the NYSDEC. It was determined that the Coyne International Enterprise Corp. should apply the Site for enrollment in the BCP (see below).

## **Vapor Intrusion Investigation**

GZA completed a Vapor Intrusion Investigation at the 140 Cortland Avenue facility in May 2015 to assess whether potential contaminant vapors from petroleum compounds and/or chlorinated organic compounds identified in the soil and groundwater at 140 Cortland Avenue, are impacting sub-slab soil vapor or indoor air quality.



Three types of air samples (sub-slab, indoor and outdoor air) were collected as part of the vapor intrusion assessment. The samples were collected via methodologies identified in the New York State Department of Health (NYSDOH), “Guidance for Evaluating Soil Vapor Intrusion in the State of New York”, dated October 2006 (NYSDOH Guidance Document).

Ten indoor air sample locations were collected within 140 Cortland Avenue. The indoor air samples were collected from the breathing zone, approximately 4 to 5 feet above the floor.

Ten sub-slab air samples were collected within 140 Cortland Avenue. The sub-slab air samples were collected from within 10 feet of the indoor air sample locations. One ambient outdoor air sample was collected from an exterior upwind location from 140 Cortland Avenue on the day of the air sampling to provide a background, baseline concentration of VOCs. The outdoor air sample was collected from approximately four to five feet above the ground surface. Care was exercised to note the presence of building intake and/or exhaust ventilation louvers in the general vicinity of the ambient air sample.

The analytical results from the vapor intrusion investigation were compared to the NYSDOH compound-specific decision matrix. Comparison of the detected concentrations of these compounds to the NYSDOH decision matrices 1 and 2 indicated that monitoring and/or mitigation is warranted in the northwestern and central portions of the 140 Cortland Avenue facility.

Coyne International Enterprise Corp. entered into a NYSDEC Brownfield Site Cleanup Agreement for the Site on July 13, 2015 under the NYSDEC BCP. The BCP Site was defined as the 140 Cortland Avenue facility and its associated employee parking lot; and the property located at 207 West Taylor Street. The results of this Environmental Characterization Report will be incorporated into the upcoming further Remedial Investigation (RI) activities under the BCP.

## **2.00 PURPOSE AND SCOPE OF WORK**

The purpose of these environmental characterization activities was to delineate potential vertical and lateral off-Site migration associated with the cVOC impact identified under the northwest portion of the 140 Cortland Avenue facility.



To accomplish this, GZA developed a scope of work for the investigation to evaluate the Site based upon generally accepted engineering standard of care and practices. The following activities were completed.

- GZA directed and supervised the installation of four nested groundwater monitoring well clusters off-Site in the City of Syracuse right-of-way proximate to South Clinton Street and west of the 140 Cortland Avenue facility (see Figure 2). The installations were completed between July 7 and 17, 2015. The monitoring well installations were performed by GZA’s subcontractor, Nothnagle Drilling Inc. (Nothnagle).
- GZA collected split spoon soil samples continuously in two-foot intervals during the well installations from depths ranging from four to 55 feet below ground surface (bgs).
- GZA field screened the recovered soil cores using an organic vapor meter (OVM) equipped with a PID with an 11.7 electron volt (eV) ultraviolet lamp.
- GZA selected 26 soil samples for chemical analysis, which included VOCs via EPA Method 8260B - Target Compound List (TCL) and Spills Technology and Remediation Series (STARS) list, and SVOCs via EPA Method 8270C (Base Neutrals list). Additionally, four composite soil samples were collected for Magnetic Susceptibility testing to evaluate the presence of iron oxides available in the glacial sediment that could be available for abiotic dechlorination. Nine discrete samples were also collected from each screened interval of the nested monitoring wells, and will be held for potential future analysis.
- GZA developed the monitoring wells after installation using a stainless steel foot valve and high density polyethylene tubing.
- GZA collected 10 groundwater samples from the four nested monitoring well clusters for chemical analysis, which included VOCs via EPA Method 8260B - TCL and STARS list and the following monitored natural attenuation (MNA) parameters:
  - Total Organic Carbon (TOC) – EPA Method 9060;
  - Alkalinity – EPA Method 310.1;
  - Dissolved Gases – EPA SOP RSK-175;
  - Iron & Manganese – EPA Method 6010;
  - Sulfate – EPA Method 300.0; and
  - Nitrate – EPA Method 353.2
- GZA completed a location survey for the nested monitoring wells using a Trimble Global Position System (GPS) unit for latitude and longitude coordinates.
- GZA completed a relative elevation survey using the northern fire hydrant on South Clinton Street (adjacent to the CTS fenced lot) for elevation reference. The western bolt of the hydrant, marked in the field with an “X” on the upper flange, was used as

the survey reference point. The survey point was assigned an arbitrary elevation of 100.0 feet and is about 2.4' above ground surface.

- GZA prepared this report, which summarizes the data collected during this study.



This report presents GZA's field observations, results, and opinions and is subject to the limitations presented in Appendix A, and modifications if subsequent information is developed by GZA or other parties.

### 3.00 FIELD STUDIES

This section describes the field studies completed as part of GZA's subsurface investigation.

#### 3.10 MONITORING WELL INSTALLATIONS AND SOIL SAMPLING

The subsurface monitoring well installations were installed using a conventional truck-mounted rotary drill rig using hollow stem augers (HSAs) to advance the boreholes. Split spoon samples were continuously collected at two foot intervals. Split spoon soil cores were field screened with an 11.7eV PID as a qualitative measurement of cVOCs. Grab soil samples were collected from each split spoon sample collected, placed in laboratory-supplied sample jars and placed immediately in a cooler with ice. The remaining soil core sample was then placed in a zip-lock bag for head space screening at the end of the field day. Head space screening results helped determine which soil samples were submitted for laboratory analysis. Samples with the highest elevated PID readings from each drilling interval were selected for analysis. The split spoon soil cores were logged by a GZA field geologist using the modified Burmeister soil classification system. Monitoring well soil boring logs with headspace screening results are included as Appendix B.

Up to three 1-inch diameter schedule 40 poly vinyl chloride (PVC) monitoring wells were installed as a nested well group in each of the four boreholes. The monitoring wells were screened at depths representing shallow, intermediate, and deep groundwater zones (where appropriate). Monitoring wells followed a conventional nomenclature with an additional letter designation for shallow (A), intermediate (B), and deep zones (C) as summarized on the table below. Due to the lack of significant soil impact identified during drilling at MW-4, only the shallow well was installed.

Well ID		MW-4	MW-5	MW-6	MW-7
Shallow	A-Series	10 – 20'	11 – 21'	12 – 22'	10 – 20'
Intermediate	B-Series	Not Applicable	26 – 36'	28 – 33'	24 – 29'
Deep	C-series	Not Applicable	40 – 50'	40 – 50'	36 – 46'

The nested monitoring wells have 0.010-inch wide slot openings in the screened section. Screened sections have a sand pack constructed from approximately one foot below the



bottom of the well screen to approximately two feet above the well screen. A Bentonite slurry seal was placed on top of the sand pack and brought up to one to two feet below the next well screen, then this process was repeated. Well construction began with the deep well, then proceeded to the intermediate, and was followed by the construction of the shallow well. A minimum of a two foot bentonite seal was placed on top of the sand pack for the shallow screened interval. A portland cement-bentonite grout seal was then placed on top of this upper Bentonite seal and brought up to ground surface. The borehole was then finished with an approximate 2x2 foot concrete well pad flush at the ground surface with a curb box and lockable well caps. Monitoring well installation diagrams are included as Figures 3A through 3D.

A temporary decontamination pad was set up at a designated location. All drill string and associated equipment was steam cleaned prior to use and between each boring.

The investigation derived waste (IDW) of drill cuttings, soil cores, and decontamination water was placed into designated United States Department of Transportation (US DOT) approved steel 55-gallon drums and staged on the Site. Drums were labeled accordingly and an inventory of contents was managed by GZA. Drums will be removed from the Site for disposal at a NYSDEC approved disposal facility.

### 3.20 MONITORING WELL DEVELOPMENT AND GROUNDWATER SAMPLE COLLECTION

GZA developed the monitoring wells using a stainless steel foot valve and high density polyethylene tubing. A minimum of 10 well volumes were removed from each well. During the development process, the foot valve was raised and lowered throughout the screened interval to create a micro-surfing effect. Water quality parameters (pH, conductivity, dissolved oxygen, turbidity, oxygen reduction potential, and temperature) were recorded at regular intervals (approximately one reading per well volume purged). Well development forms are included as Appendix C.

Groundwater samples were collected in general conformance with low-flow sampling techniques using a bladder pump. Field parameters (i.e., pH, conductivity, dissolved oxygen, turbidity, oxygen reduction potential, and temperature) of the purge water were documented and samples were collected after parameters had reached stabilization within acceptable parameters. Groundwater sampling forms are included as Appendix D.

## **4.00 ANALYTICAL TESTING**

Twenty-six subsurface soil samples and 10 groundwater samples were collected and submitted for analytical testing. The samples were placed in sample jars and bottles provided by the laboratory, packed in an ice-filled cooler, and sent via courier to Alpha Analytical located in Westborough, Massachusetts. Typical chain-of-custody procedures were followed. Table 1 provides a summary of the analytical samples collected and the analyses completed.

## 5.00 SUBSURFACE CONDITIONS

### 5.10 REGIONAL GEOLOGY



The City of Syracuse is situated at the northern end of the Onondaga Valley and post glacial lake Onondaga is along the northern portion of the City limits, at the border between the Ontario Lowlands and the Onondaga Valley (Trough). The City of Syracuse is underlain by thick heterogeneous unconsolidated units of glacial sediments deposited during the advancement and recession of continental glaciers, as recently as 14,000 years ago. The Onondaga trough sediment thickens toward the Tully moraine in the south of the valley. Anticipated depth to bedrock can vary within the city limits depending on proximity to buried valley walls; ranging from 40 to 400 ft. bgs. Bedrock units in central New York are aligned as east-west trending bands, and dip gently to the south at a slope of approximately 40 to 50 feet per mile. Silurian aged rock units underlie the City of Syracuse and Devonian aged rocks units form the hills south of Syracuse. Bedrock was not encountered during the well drilling conducted as part of this investigation which extended to a maximum depth of approximately 55 feet.

### 5.20 OVERBURDEN GEOLOGY

#### FILL

A *Fill* unit was encountered in all four monitoring well soil borings and ranged in thickness between seven to 11 feet, with an average thickness of approximately nine feet. The fill unit consisted of a heterogeneous mixture of sands, gravels, and fines (i.e. silts and clays); with trace amounts of slag, cinders, porcelain, rubber-like material, wood, concrete and brick observed. Due to utility clearances and the assurance of safe working conditions, all four monitoring well soil borings were hand cleared to five feet bgs, using a posthole digger and an air lance with a compressor.

#### MARL & ORGANICS

A *Marl & Organic* deposit underlies the fill unit and consists of a gray-brown to gray, clayey silt and sand mixture, which graded to a fine to medium/course sand at depth. Also observed in this unit were particles and fragments of shells, wood chips, and natural organics. Average thickness of the MARL unit is approximately twelve feet. This unit was observed in all four monitoring well soil borings.

#### GLACIAL LACUSTRINE

Beneath the Marl unit, a *Glacial Lacustrine* deposit was encountered which ranged in thickness between eight and 22 feet, with an average thickness of approximately 15 feet. This unit is known to be discontinuous throughout the subsurface in the City of Syracuse. The Glacial Lacustrine unit is primarily composed of alternating sequences of gray-brown, very soft to soft, silts and clays, with varying amounts of fine to medium sand. This unit

was observed in all four monitoring well soil borings, but was only augered through at locations MW-5, MW-6, and MW-7.

### GLACIAL FLUVIAL



Beneath the *Glacial Lacustrine* deposit, is a Glacial Fluvial unit, which primarily consists of a loose to medium dense, brown-gray, fine course sand, with varying amounts of silt and gravel. This geologic unit was encountered in MW-5, MW-6, and MW-7 to total depth drilled.

Monitoring well boring logs are included as Appendix B.

### 5.30 GROUNDWATER

Groundwater measurements were recorded during the field investigation and during the monitoring well surveying. Groundwater elevation contour maps are included as Figure 4A through Figure 4C (data collected on August 12, 2015). General groundwater flow direction is towards the northwest for the shallow (A-series) monitoring wells and includes previously installed monitoring wells (MW-1, MW-2, and MW-3) located in the employee parking lot (see Figure 4A). Groundwater flow direction is observed to be towards the north for intermediate (B-series) and deep (C-series) monitoring wells, but the groundwater data is limited for these depths due to the limited number and spatial distribution of the observation points (see Figure 4B and 4C).

## **6.00 ANALYTICAL TEST RESULTS**

Analytical results of soil and groundwater samples collected at the Site during this off-Site environmental characterization are presented below. The analytical results for the soil samples are summarized on Table 2. The analytical results for the groundwater samples are summarized on Tables 3 and 4. The analytical laboratory reports are included as Appendix E.

The analytical test results for the subsurface soil samples were compared to:

- NYSDEC Part 375 Restricted Use Soil Cleanup Objectives.

The Restricted Use Soil Cleanup Objectives (RSCOs) are applicable for the protection of public health in residential, commercial, and industrial scenarios where contamination has been identified in soil above the USCOs.

Based on the historical and current commercial and industrial usage of the Site and surrounding properties, the Commercial (CSCOs) and Industrial Soil Cleanup Objectives (ISCOs) were considered when evaluating the soil analytical results from the Site.

The analytical test results for the groundwater samples were compared to:

- NYSDEC Groundwater criteria presented in the Division of Water Technical and Operational Guidance Series (TOGS 1.1.1), dated October 1993, revised June 1998, errata January 1999 and amended April 2000 (Class GA).



## 6.10 SOIL

### Volatile Organic Compounds:

Volatile organic compounds were detected above method detection limits (MDLs) in all 26 of the soil samples submitted for analysis.

**MW-4:** Volatile organic compounds were detected above MDLs in each of the five soil samples submitted for analysis from the MW-4 well installation. As shown on Table 2, VOC concentrations were below Commercial Use Soil Cleanup Objectives (CSCOs).

**MW-5:** Volatile organic compounds were detected above MDLs in the seven soil samples submitted for analysis from this area. As shown on Table 2, the majority of VOCs analyzed were not detected above MDLs. When concentrations were detected above MDLs, parameters were detected at concentrations below CSCOs.

**MW-6:** Volatile organic compounds were detected above MDLs in the seven soil samples submitted for analysis from this area. As shown on Table 2, the majority of VOCs analyzed were not detected above MDLs. When concentrations were detected above MDLs, parameters were detected at concentrations below CSCOs.

**MW-7:** Volatile organic compounds were detected above MDLs in the six soil samples submitted for analysis from this area. As shown on Table 2, the majority of VOCs analyzed were not detected above MDLs. When concentrations were detected above MDLs, parameters were detected at concentrations below CSCOs.

### Semi-Volatile Organic Compounds:

Semi-volatile organic compounds were detected above MDLs in four of the five soil samples submitted for analysis.

**MW-4:** Semi-volatile organic compounds were not detected above MDLs in the soil sample submitted for analysis from MW-4, 4-6 ft. bgs. Semi-volatile organic compounds were detected above MDLs in the soil sample submitted for analysis from 8-10 ft. bgs. Indeno(1,2,3-cd)pyrene was detected at a concentration of 8.8 mg/kg, which exceeded its respective CSCO but was below its Industrial Soil Cleanup Objective (ISCO; 11 mg/kg). Four compounds slightly exceeded their respective ISCOs: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, and dibenzo(a,h)anthracene.



**MW-5:** Semi-volatile organic compounds were detected above MDLs in the soil sample submitted for analysis from MW-5, 5-7 ft. bgs. As shown on Table 2, when concentrations were detected above MDLs, parameters were detected at concentrations below CSCOs.

**MW-6:** Semi-volatile organic compounds were detected above MDLs in the soil sample submitted for analysis from MW-6, 5-7 ft. bgs. As shown on Table 2, when concentrations were detected above MDLs, parameters were detected at concentrations below CSCOs.

**MW-6:** Semi-volatile organic compounds were detected above MDLs in the soil sample submitted for analysis from MW-7, 7-9 ft. bgs. As shown on Table 2, when concentrations were detected above MDLs, parameters were detected at concentrations below CSCOs.

## 6.20 GROUNDWATER

### **Volatil Organic Compounds:**

Volatil organic compounds were detected above MDLs in nine of the 10 groundwater samples submitted for analysis.

**MW-4:** Four VOCs were detected above MDLs in the sample submitted for analysis from MW-4. One VOC, vinyl chloride, was detected at a concentration of 3.3 ug/L; which slightly exceeds its NY groundwater criteria (2 ug/L). The remaining detected VOCs were detected at concentrations below their respective criteria.

**MW-5A:** Seven VOCs were detected above MDLs in the sample submitted for analysis from MW-5A (shallow). The detected VOCs exceed their respective groundwater criteria as summarized below. The concentrations shown are the higher from the sample collected from MW-5A and its respective duplicate.

- Tetrachloroethene was detected at a concentration of 3,100 ug/L; which significantly exceeds its groundwater criterion of 5 ug/L.
- Benzene was detected at a concentration of 4.4 ug/L; which exceeds its criterion of 1 ug/L.
- Vinyl chloride, a breakdown daughter product of PCE, was detected at a concentration of 110 ug/L; which exceeds its groundwater criterion of 2 ug/L.
- 1,1-dichloroethene, a breakdown daughter product of PCE, was detected at a concentration of 6.5 ug/L, which slightly exceeds its criterion of 5 ug/L.
- Trans-1,2-dichloroethene, a breakdown daughter product of PCE, was detected at a concentration of 14 ug/L, which exceeds its criterion of 5 ug/L.



- Trichloroethene was detected at a concentration of 2,000 ug/L; which significantly exceeds its groundwater criterion of 5 ug/L.
- Cis-1,2-dichloroethene, a breakdown daughter product of PCE, was detected at a concentration of 2,400 ug/L, which significantly exceeds its groundwater criterion of 5 ug/L.

Additionally, due to the high concentrations of the above compounds, the laboratory had to run a diluted analysis, resulting in high MDLs for compounds that exceed NYSDEC groundwater criteria (see Table 3).

**MW-5B:** Five VOCs were detected above MDLs in the sample submitted for analysis from MW-5B (intermediate). Two of the detected VOCs exceed their respective groundwater criteria as summarized below.

- Tetrachloroethene was detected at a concentration of 5.7 ug/L, which slightly exceeds its groundwater criterion of 5 ug/L.
- Cis-1,2-dichloroethene was detected at a concentration of 6.1 ug/L, which slightly exceeds its groundwater criterion of 5 ug/L.

**MW-5C:** Four VOCs were detected above MDLs in the sample submitted for analysis from MW-5C (deep); however, the detected concentrations were below their respective groundwater criteria.

**MW-6A:** Five VOCs were detected above MDLs in the sample submitted for analysis from MW-6A (shallow). The detected VOCs exceed their respective groundwater criteria as summarized below.

- Tetrachloroethene was detected at a concentration of 34 ug/L, which exceeds its groundwater criterion of 5 ug/L.
- Vinyl chloride was detected at a concentration of 2,000 ug/L, which significantly exceeds its groundwater criterion of 2 ug/L.
- Trans-1,2-dichloroethene was detected at a concentration of 230 ug/L, which exceeds its criterion of 5 ug/L.
- Trichloroethene was detected at a concentration of 260 ug/L, which significantly exceeds its groundwater criterion of 5 ug/L.
- Cis-1,2-dichloroethene, was detected at a concentration of 5,300 ug/L, which significantly exceeds its groundwater criterion of 5 ug/L.

Additionally, due to the high concentrations of the above compounds, the laboratory had to run a diluted analysis, resulting in high MDLs for compounds that exceed NYSDEC groundwater criteria (see Table 3).

**MW-6B:** Six VOCs were detected above MDLs in the sample submitted for analysis from MW-6B (intermediate). The detected VOCs exceed their respective groundwater criteria as summarized below.



- Tetrachloroethene was detected at a concentration of 27 ug/L, which exceeds its groundwater criterion of 5 ug/L.
- Vinyl chloride was detected at a concentration of 3,200 ug/L, which significantly exceeds its groundwater criterion of 2 ug/L.
- 1,1-dichloroethene was detected at a concentration of 15 ug/L, which exceeds its criterion of 5 ug/L.
- Trans-1,2-dichloroethene was detected at a concentration of 150 ug/L, which exceeds its criterion of 5 ug/L.
- Trichloroethene was detected at a concentration of 290 ug/L, which exceeds its groundwater criterion of 5 ug/L.
- Cis-1,2-dichloroethene, was detected at a concentration of 5,600 ug/L, which significantly exceeds its groundwater criterion of 5 ug/L.

Additionally, due to the high concentrations of the above compounds, the laboratory had to run a diluted analysis, resulting in high MDLs for compounds that exceed NYSDEC groundwater criteria (see Table 3).

**MW-6C:** No VOCs were detected above MDLs in the sample submitted for analysis from MW-6C (deep).

**MW-7A:** Four VOCs were detected above MDLs in the sample submitted for analysis from MW-7A (shallow). Two of the detected VOCs exceed their respective groundwater criteria as summarized below.

- Vinyl chloride was detected at a concentration of 500 ug/L, which significantly exceeds its groundwater criterion of 2 ug/L.
- Cis-1,2-dichloroethene, was detected at a concentration of 460 ug/L, which significantly exceeds its groundwater criterion of 5 ug/L.

**MW-7B:** Seven VOCs were detected above MDLs in the sample submitted for analysis from MW-7B (intermediate). Two of the detected VOCs exceed their respective groundwater criteria as summarized below.

- Vinyl chloride was detected at a concentration of 210 ug/L, which significantly exceeds its groundwater criterion of 2 ug/L.
- Cis-1,2-dichloroethene, was detected at a concentration of 180 ug/L, which significantly exceeds its groundwater criterion of 5 ug/L.

**MW-7C:** Five VOCs were detected above MDLs in the sample submitted for analysis from MW-5C (deep); however, the detected concentrations were below their respective groundwater criteria.

Groundwater VOC analytical results are included as Table 3.

### 6.30 MONITORED NATURAL ATTENUATION EVALUATION



Many natural processes can reduce contaminant concentrations at sites that are contaminated by cVOCs. Natural attenuation refers to the reliance on natural processes, within the context of a carefully controlled and monitored clean-up approach, to achieve site-specific remedial objectives. Natural attenuation mechanisms include a variety of physical, chemical, and biological processes that, under favorable conditions, act without human intervention to reduce the mass, toxicity, mobility, volume, or concentration of contaminants in soil and groundwater. These *in-situ* processes include biodegradation, dispersion, dilution, sorption, volatilization, and chemical or biological stabilization, transformation, or destruction. The goal of any site characterization effort is to understand the fate and transport of the contaminants of concern over time, in order to assess any current or potential threat to human health or the environment. Natural attenuation processes such as biological and chemical reductive dechlorination can be dominant factors in the fate and transport of cVOCs.

#### **In-Situ Biological and Chemical Reduction of Chlorinated VOCs**

Reductive dechlorination is the biologically- or chemically-mediated replacement of chlorine (as chloride) on a cVOC with elemental hydrogen, in the presence of a suitable electron donor. This causes transformation of the cVOC to a less chlorinated product. For example, PCE can be biologically dechlorinated by *Dehalococcoides* bacteria to TCE, dichloroethene (DCE), vinyl chloride (VC), and ethene. Ethene is consumed by other bacteria, and ultimately converted to carbon dioxide and water.

An electron donor is a substance capable of supplying electrons during oxidation-reduction reactions. In biotic (biologically-mediated) reductive dechlorination, microorganisms obtain energy by transferring electrons from electron donors to electron acceptors. Electron donors are chemically-reduced materials such as fuel hydrocarbons, naturally-occurring organic carbon, or organic carbon-based remedial additives. Electron acceptors include oxygen, nitrate, ferric iron, sulfate, and cVOCs. In abiotic (chemically-mediated) reductive dechlorination, reduced iron minerals such as ferrous sulfide, magnetite, and zero-valent iron (ZVI) serve as electron donors to facilitate cVOC dechlorination. The typical intermediate products of dechlorination are *cis*-1,2-dichloroethene (cDCE) and VC for the biotic degradation pathway and chloroacetylene for the abiotic counterpart. Chloroacetylene is a very short-lived intermediate, which is rapidly degraded to acetylene, followed by carbon dioxide and water.

Source removal may not be feasible at the Site, as the highest concentrations of cVOCs appear to be underneath the building. Under MNA (monitored natural attenuation), groundwater is remediated through natural attenuation with periodic monitoring. Biotic and abiotic natural attenuation can be enhanced and accelerated by injection of organic carbon or iron-based electron donors.

## Baseline Data Summary and Evaluation

The baseline soil data collected at the Site during the July 2015 monitoring well installations and the baseline groundwater data collected following well development contain several lines of evidence that suggest that natural attenuation is ongoing at the Site. The baseline MNA data is summarized in Table 4. The baseline soil magnetic susceptibility, which correlates to soil magnetite content, is summarized under “Evidence of Potential for Abiotic Attenuation”. Magnetic susceptibility analytical testing results are included in Appendix E.



### Evidence of Potential for Biotic Attenuation:

- Site total organic carbon (TOC) is somewhat elevated. This may be attributed to the organics present in the marl layer. TOC serves as an electron donor for bacteria that condition groundwater for biological dechlorination. These bacteria ultimately generate the hydrogen electron donor needed by dechlorinating *Dehalococcoides* bacteria. Groundwater TOC from monitoring wells that have cVOCs well above the NYSDEC groundwater criteria have TOC ranging from 9 mg/L in MW-5A to 23 mg/L in MW-7A.
- Alkalinity is elevated (292 to 613 mg/L) and pH is near-neutral (6.8 to 7.0 standard units). Biotic dechlorination tends to reduce groundwater pH, as organic acids and hydrogen ions are generated by bacteria fermenting organic carbon. *Dehalococcoides* bacteria are very sensitive to low pH, with much more robust growth above pH 6.5. Alkalinity helps to buffer groundwater against the pH reduction typical of biotic reductive dechlorination.
- Methane above 500 µg/L was observed in MW-4, MW-5A, MW-6A, MW-6B, and MW-7A. This is strong evidence that groundwater is conducive to growth of methanogenic bacteria, which grow under similar conditions as *Dehalococcoides* bacteria.
- Ethene and ethane are the hydrocarbons remaining after all chlorines are removed from PCE, TCE, DCE, and VC. Ethene/ethane concentrations above 100 µg/L represent strong evidence for biotic cVOC degradation (MW-4, MW-5A, MW-6A, and MW-6B), while ethene/ethane concentrations above 10 µg/L represent adequate evidence for biotic cVOC degradation (MW-7A and MW-7B).
- Dissolved oxygen (DO) and nitrate are competing electron acceptors that must be overcome for groundwater to be conducive to growth of *Dehalococcoides*. DO concentrations below 0.5 mg/L provide strong evidence for biotic cVOC degradation (MW-4, MW-5B, MW-6A, MW-6B, MW-7A, MW-7B, and MW-7C). Groundwater nitrate concentrations below 1.0 mg/L provide strong evidence for biotic cVOC degradation. All measured nitrate concentrations were at or below 0.1 mg/L (the method detection limit).
- Lower ORPs (oxidation-reduction potentials) are necessary for reductive dechlorination. All measured ORPs were negative, with several wells measured below -100 mV, representing strong evidence for biotic cVOC degradation (MW-4, MW-5A, MW-5B, MW-5C, MW-6B, MW-6C, MW-7A, and MW-7C).



#### Evidence of Potential for Abiotic Attenuation:

- The combination of elevated TOC with lower iron and/or lower sulfate in groundwater provides secondary evidence of biotically-mediated formation of reactive ferrous sulfide. This type of ferrous sulfide forms reactive coatings on soil particles that can donate electrons to cVOCs for a type of abiotic reductive dechlorination commonly known as “biogeochemical” dechlorination. This secondary evidence of reactive ferrous sulfate formation exists in the vicinity of MW-4, MW-5A, MW-5B, MW-6A, MW-6B, MW-7A, and MW-7B.
- Magnetic susceptibility measurements of composited soil samples give an approximation of magnetite content. Magnetite is a naturally occurring magnetic ferrous-ferric oxide that can donate electrons to PCE, TCE, and cDCE for abiotic reductive dechlorination. No direct chemical test is available for quantification of magnetite. However, magnetite is the most abundant mineral in natural soils and sediments that exhibit magnetic behavior. Soil samples collected during monitoring well installation had magnetic susceptibilities of  $1.5 \times 10^{-6}$  to  $8.3 \times 10^{-7}$  m<sup>3</sup>/kg. These are moderate values, suggesting soil magnetite content of approximately 0.1 to 0.5 weight %.

Abiotic mechanisms are likely part of the overall natural attenuation at the Site, particularly near MW-4, where PCE, TCE, and cDCE are currently below NYSDEC groundwater criteria. However, significant groundwater concentrations of cDCE and VC in MW-5A, MW-6A, MW-6B, MW-7A, and MW-7B suggest that dechlorination in these locations is predominately biotic, microbially-mediated sequential dechlorination.

#### Potential for Sulfate Inhibition

There is some evidence that sulfate inhibition of *Dehalococcoides* can occur when sulfate groundwater concentrations are much above 400 mg/L (MW-5C, MW-6C, and MW-7C). Recent studies<sup>4</sup> have demonstrated that *Dehalococcoides* are still able to predominate in mixed anaerobic microbial communities when sulfate concentrations are as high as 960 to 1,100 mg/L, even under limiting-electron donor conditions (low TOC). However, once TOC is depleted, elevated sulfate concentrations can reduce dechlorination rates due to microbial competition between dechlorinators and sulfate-reducing bacteria for the available electron donor (TOC).

#### Summary

There is convincing evidence that PCE dechlorination is advancing at the Site, generating TCE, DCE, VC, and ethene/ethane. Continued dechlorination is anticipated as, with the possible exception of MW-5A, an environment strongly favorable to reductive

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<sup>4</sup> Panagiotakis, I., D. Mamais, M. Pantazidou, S. Rossetti, F. Aulenta and V. Tandoi. 2013. Predominance of *Dehalococcoides* in the presence of different sulfate concentrations. *Water, Air, & Soil Pollution* 225:1-14; and He, J., Y. Sung, R. Krajmalnik-Brown, K.M. Ritalahti and F.E. Löffler. 2005. Isolation and characterization of *Dehalococcoides* sp. strain FL2, a trichloroethene (TCE)- and 1,2-dichloroethene-respiring anaerobe. *Environmental Microbiology* 7:1442-1450.



dechlorination exists in proximity to the monitoring wells with significant NYSDEC groundwater criteria exceedances. Although most of the attenuation parameters for monitoring well MW-5A are favorable, this location may not contain enough organic carbon electron donor to sustain biotic dechlorination of the remaining detected 3,000 µg/L PCE, or to generate reactive ferrous sulfides for abiotic dechlorination. Soil magnetite may also be too low at this location for substantial abiotic dechlorination.

## 7.00 CONCLUSIONS AND RECOMMENDATIONS

A summary of our conclusions and recommendations based upon the work conducted as part of this study follows.

MW-4 is located on the east side of Clinton Street in an up to cross gradient groundwater flow direction from the SB-32 location (under the Chemical Storage Room – the PCE “hot spot” identified during Phase III ESA activities). The well was not installed due west of the SB-32 location due to the presence of power lines exterior to the facility. Chlorinated VOC detections in soil and groundwater were relatively low at this location, with one slight exceedance for VC in groundwater. Due to the lack of significant soil impact identified during well boring, only the shallow well was installed.

MW-5 through MW-7 are located west and across from Clinton Street in a downgradient groundwater flow direction from the SB-32 location. All three of these locations were installed with three well clusters interacting with the formation at shallow, intermediate, and deep depths. The shallow and deep stratigraphy is generally granular, while the intermediate depths were finer grained (i.e. silts and clays). The silt/clay layer (screened by the intermediate “B” wells) may be acting as a confining layer to downward migration of contaminants of concern (see analytical data summary in Section 6.10). Chlorinated volatile organic compound (cVOC) impact (PCE and its breakdown daughter products) was detected in the shallow and intermediate intervals. These detections in the A series (shallow wells) are many orders of magnitude lower than those identified at SB-32 (suspect source). Additionally, the presence of the breakdown daughter products is an encouraging indicator of conditions conducive to natural attenuation. There are lesser detections in the B series (intermediate wells), and near non-detect levels in the C-series (deep wells). In summary,

- Although the detected levels of cVOCs in the shallow and intermediate series wells MW-5 through MW-7 significantly exceed NYSDEC groundwater standards, cVOC concentrations are decreasing significantly (by orders of magnitude) with little relative distance from the suspect source area;
- the potential presence of the confining layer at the intermediate depths may be inhibiting downward contaminant migration; and,
- the detections of breakdown products, along with the collected MNA data appear to be indicative of conditions conducive to natural attenuation.

The results of this Environmental Characterization Report will be incorporated into the upcoming Remedial Investigation (RI) activities under the BCP to further characterize on- and off -Site impact.

The conclusions in this report are subject to the limitations presented in Appendix A and are based on a limited number of soil and groundwater samples analyzed as part of this investigation.



## **TABLES**

**Table 1**  
Analytical Testing Program Summary  
Off-Site Environmental Characterization Report  
Coyne Textile Services  
140 Cortland Avenue and 207 West Taylor Street  
Syracuse, New York

Location	Date Collected	Depth/ Interval (ft bgs)	VOCs EPA Method 8260-TCL & STARS	SVOCs EPA Method 8270 - BN	MNA Parameters
<b>SOIL SAMPLES</b>					
MW-4 (4-6')	7/7/2015	4-6	X	X	
MW-4 (8-10')	7/7/2015	8-10	X	X	
MW-4 (14-16')	7/7/2015	14-16	X		
MW-4 (18-20')	7/7/2015	18-20	X		
MW-4 (22-24')	7/7/2015	22-24	X		
MW-5 (5-7')	7/9/2015	5-7	X	X	
MW-5 (11-13')	7/9/2015	11-13	X		
MW-5 (17-19')	7/9/2015	17-19	X		
MW-5 (19-21')	7/9/2015	19-21	X		
MW-5 (29-31')	7/9/2015	29-31	X		
MW-5 (35-37')	7/9/2015	35-37	X		
MW-5 (45-47')	7/9/2015	45-47	X		
MW-6 (5-7')	7/13/2015	5-7	X	X	
MW-6 (13-15')	7/13/2015	13-15	X		
MW-6 (17-19')	7/13/2015	17-19	X		
MW-6 (23-25')	7/13/2015	23-25	X		
MW-6 (31-33')	7/13/2015	31-33	X		
MW-6 (35-37')	7/13/2015	35-37	X		
MW-6 (49-51')	7/13/2015	49-51	X		
MW-6 (53-55')	7/13/2015	53-55	X		
MW-7 (7-9')	7/15/2015	7-9	X	X	
MW-7 (19-21')	7/15/2015	19-21	X		
MW-7 (21-23')	7/15/2015	21-23	X		
MW-7 (29-31')	7/15/2015	29-31	X		
MW-7 (41-43')	7/15/2015	41-43	X		
MW-7 (51-53')	7/15/2015	51-53	X		
<b>GROUNDWATER SAMPLES</b>					
MW-4	7/20/2015	10-20	X		X
MW-5A	7/20/2015	11-21	X		X
MW-5B	7/21/2015	26-36	X		X
MW-5C	7/21/2015	40-50	X		X
MW-6A	7/21/2015	12-22	X		X
MW-6B	7/23/2015	28-33	X		X
MW-6C	7/23/2015	40-50	X		X
MW-7A	7/22/2015	10-20	X		X
MW-7B	7/22/2015	24-29	X		X
MW-7C	7/22/2015	36-46	X		X
Notes:					
1. ft bgs = feet below ground surface.					
2. VOCs = Volatile Organic Compounds.					
3. SVOCs = Semi-Volatile Organic Compounds.					
4. TCL = Target Compound List.					
5. STARS = Spill Technology and Remediation Series.					
6. EPA = Environmental Protection Agency.					
7. BN = Base Neutrals					
8. MNA = Monitored Natural Attenuation					
9. Depths shown for groundwater samples are approximate screened intervals.					

**Table 2**  
Soil Analytical Data Summary  
Off-Site Environmental Characterization Report  
Coyne Textile Services  
140 Cortland Avenue and 207 West Taylor Street  
Syracuse, New York

LOCATION SAMPLING DATE	Part 375 Restricted Use Soil Cleanup Objectives (SCOs)			MW-4-4-6-7715 7/7/2015	Qual	MW-4-8-10-7715 7/7/2015	Qual	MW-4-14-16-7715 7/7/2015	Qual	MW-4-18-20-7715 7/7/2015	Qual	MW-4-22-24-7715 7/7/2015	Qual	MW-5-5-7-7915 7/9/2015	Qual	MW-5-11-13-7915 7/9/2015	Qual	MW-5-17-19-7915 7/9/2015	Qual	MW-5-19-21-7915 7/9/2015	Qual
	NYS Restricted Commercial	NYS Restricted Industrial	Units																		
<b>Volatile Organic Compounds - EPA Method 8260 TCL &amp; STARS (mg/kg)</b>																					
1,1-Dichloroethane	240	480	mg/kg	0.0021	U	0.0021	U	0.0025	U	0.0017	U	0.0019	U	0.0023	U	0.0028	U	0.092	U	1	U
Chloroform	350	700	mg/kg	0.0021	U	0.0021	U	0.0025	U	0.0017	U	0.0019	U	0.0023	U	0.0024	U	0.092	U	1	U
Tetrachloroethene	150	300	mg/kg	0.079		0.0013	J	0.0016	U	0.0027		0.0012	U	0.063		0.0016	U	9.1		150	
Benzene	44	89	mg/kg	0.0014	U	0.0014	U	0.0016	U	0.0016		0.0012	U	0.00038	J	0.00042	J	0.013	J	0.68	U
Vinyl chloride	13	27	mg/kg	0.0028	U	0.0028	U	0.0033	U	0.0022	U	0.0021	J	0.003	U	0.032		0.081	J	0.17	J
1,1-Dichloroethene	500	1000	mg/kg	0.0014	U	0.0014	U	0.0016	U	0.0011	U	0.0012	U	0.0015	U	0.0016	U	0.061	U	0.68	U
trans-1,2-Dichloroethene	500	1000	mg/kg	0.0021	U	0.0021	U	0.0025	U	0.0017	U	0.0019	U	0.0023	U	0.00061	J	0.034	J	1	U
Trichloroethene	200	400	mg/kg	0.002		0.0014	U	0.0016	U	0.00069	J	0.0012	U	0.0024		0.0016	U	2		14	
cis-1,2-Dichloroethene	500	1000	mg/kg	0.0017		0.0014	U	0.0016	U	0.0006	J	0.0012	U	0.0015	U	0.0017		3.7		4.2	
Acetone	500	1000	mg/kg	0.014	U	0.026		0.018		0.0028	J	0.0013	J	0.015	U	0.028		0.61	U	6.8	U
Carbon disulfide	NV	NV	mg/kg	0.014	U	0.014	U	0.016	U	0.011	U	0.012	U	0.015	U	0.016	U	0.61	U	6.8	U
2-Butanone	500	1000	mg/kg	0.014	U	0.0056	J	0.016	U	0.011	U	0.012	U	0.015	U	0.0047	J	0.61	U	6.8	U
n-Butylbenzene	500	1000	mg/kg	0.0014	U	0.0014	U	0.0016	U	0.0011	U	0.0012	U	0.0015	U	0.0016	U	0.061	U	0.68	U
sec-Butylbenzene	500	1000	mg/kg	0.0014	U	0.0014	U	0.0016	U	0.0011	U	0.0012	U	0.0015	U	0.0016	U	0.061	U	0.68	U
tert-Butylbenzene	500	1000	mg/kg	0.007	U	0.0071	U	0.0083	U	0.0056	U	0.0063	U	0.0076	U	0.0079	U	0.31	U	3.4	U
Isopropylbenzene	NV	NV	mg/kg	0.0014	U	0.0014	U	0.0016	U	0.0011	U	0.0012	U	0.0015	U	0.0016	U	0.061	U	0.68	U
Naphthalene	500	1000	mg/kg	0.007	U	0.00067	J	0.0083	U	0.0056	U	0.0063	U	0.0076	U	0.0079	U	0.31	U	3.4	U
n-Propylbenzene	500	1000	mg/kg	0.0014	U	0.0014	U	0.0016	U	0.0011	U	0.0012	U	0.0015	U	0.0016	U	0.061	U	0.68	U
1,2,4-Trimethylbenzene	190	380	mg/kg	0.007	U	0.0071	U	0.0083	U	0.0056	U	0.0063	U	0.0076	U	0.0079	U	0.31	U	0.18	J
Methyl cyclohexane	NV	NV	mg/kg	0.0056	U	0.0057	U	0.0066	U	0.0044	U	0.005	U	0.0061	U	0.0063	U	0.24	U	2.7	U
<b>Semi-Volatile Organic Compounds - EPA Method 8270 (mg/kg)</b>																					
Acenaphthene	500	1000	mg/kg	0.18	U	0.95		NT		NT		NT		0.056	J	NT		NT		NT	
Fluoranthene	500	1000	mg/kg	0.14	U	41	E	NT		NT		NT		0.97		NT		NT		NT	
Naphthalene	500	1000	mg/kg	0.23	U	0.82		NT		NT		NT		0.19	J	NT		NT		NT	
Benzo(a)anthracene	5.6	11	mg/kg	0.14	U	20	E	NT		NT		NT		0.46		NT		NT		NT	
Benzo(a)pyrene	1	1.1	mg/kg	0.18	U	17		NT		NT		NT		0.46		NT		NT		NT	
Benzo(b)fluoranthene	5.6	11	mg/kg	0.14	U	21	E	NT		NT		NT		0.52		NT		NT		NT	
Benzo(k)fluoranthene	56	110	mg/kg	0.14	U	7.1		NT		NT		NT		0.21		NT		NT		NT	
Chrysene	56	110	mg/kg	0.14	U	21	E	NT		NT		NT		0.44		NT		NT		NT	
Acenaphthylene	500	1000	mg/kg	0.18	U	2.3		NT		NT		NT		0.2	U	NT		NT		NT	
Anthracene	500	1000	mg/kg	0.14	U	6.3		NT		NT		NT		0.15		NT		NT		NT	
Benzo(ghi)perylene	500	1000	mg/kg	0.18	U	7.7		NT		NT		NT		0.28		NT		NT		NT	
Fluorene	500	1000	mg/kg	0.23	U	2		NT		NT		NT		0.091	J	NT		NT		NT	
Phenanthrene	500	1000	mg/kg	0.14	U	20	E	NT		NT		NT		0.46		NT		NT		NT	
Dibenzo(a,h)anthracene	0.56	1.1	mg/kg	0.14	U	2.4		NT		NT		NT		0.071	J	NT		NT		NT	
Indeno(1,2,3-cd)pyrene	5.6	11	mg/kg	0.18	U	8.8		NT		NT		NT		0.32		NT		NT		NT	
Pyrene	500	1000	mg/kg	0.14	U	36	E	NT		NT		NT		0.85		NT		NT		NT	
Dibenzofuran	350	1000	mg/kg	0.23	U	0.71		NT		NT		NT		0.25	U	NT		NT		NT	
2-Methylnaphthalene	NV	NV	mg/kg	0.28	U	0.25	J	NT		NT		NT		0.3	U	NT		NT		NT	
Carbazole	NV	NV	mg/kg	0.23	U	0.74		NT		NT		NT		0.064	J	NT		NT		NT	

- Notes:
- Compounds detected in one or more samples are presented on this table. Detections are shown in larger font. Refer to Appendix E for list of all compounds included in analysis.
  - Analytical testing completed by Alpha Analytical, in Westborough, MA.
  - Soil cleanup objectives (SCOs) are from NYSDEC Part 375, Subpart 375-6: Commercial Soil Cleanup Objectives, Industrial Soil Cleanup Objectives, and Protection of Groundwater Standards.
  - ug/kg = part per billion, mg/kg = part per million, bgs = below ground surface.
  - Italics* indicates values exceeding NYSDEC Commercial Soil Cleanup Objectives.
  - Bold** indicates values exceeding NYSDEC Industrial Soil Cleanup Objectives.
  - Gray Shading indicates values exceeding NYSDEC Protection of Groundwater Standard.
  - Pink Shading indicates chlorinated compound of concern.
  - Results shown for MW-4-22-24-7715, MW-6-53-55-71515, and MW-7-51-53-71515 (VOCs); and MW-4-4-6-7715 (SVOCs) are the higher of the initial analysis and re-analysis.
  - NT = Not Tested. NV = No Value.
  - U = Value below Method Detection Limits. J = Laboratory qualifier, estimated concentration. E = Concentration exceeds the range of the calibration curve and/or linear range of the instrument.

**Table 2**  
 Soil Analytical Data Summary  
 Off-Site Environmental Characterization Report  
 Coyne Textile Services  
 140 Cortland Avenue and 207 West Taylor Street  
 Syracuse, New York

LOCATION SAMPLING DATE	Part 375 Restricted Use Soil Cleanup Objectives (SCOs)			MW-5-29-31-7915 7/9/2015	Qual	MW-5-35-37-7915 7/9/2015	Qual	MW-5-45-47-7915 7/9/2015	Qual	MW-6-5-7_071315 7/13/2015	Qual	MW-6-13-15_071315 7/13/2015	Qual	MW-6-17-19_071315 7/13/2015	Qual	MW-6-23-25_071315 7/13/2015	Qual	MW-6-31-33_071315 7/13/2015	Qual	MW-6-35-37_071315 7/13/2015	Qual
	NYS Restricted Commercial	NYS Restricted Industrial	Units																		
<b>Volatile Organic Compounds - EPA Method 8260 TCL &amp; STARS (mg/kg)</b>																					
1,1-Dichloroethane	240	480	mg/kg	0.0019	U	0.0018	U	0.0019	U	0.0021	U	0.0024	U	0.0084	U	0.0019	U	0.0019	U	0.0018	U
Chloroform	350	700	mg/kg	0.0019	U	0.0018	U	0.0012	J	0.0021	U	0.0024	U	0.0084	U	0.0019	U	0.0019	U	0.0018	U
Tetrachloroethene	150	300	mg/kg	0.00047	J	0.062		0.0063		0.019		0.0016	U	0.083		0.0013	U	0.0012	U	0.0012	U
Benzene	44	89	mg/kg	0.0013	U	0.0012	U	0.0012	U	0.0014	U	0.0016	U	0.0028	J	0.0013	U	0.0012	U	0.0012	U
Vinyl chloride	13	27	mg/kg	0.0025	U	0.0027		0.0014	J	0.0028	U	0.059		0.43		0.0007	J	0.0003	J	0.0025	U
1,1-Dichloroethene	500	1000	mg/kg	0.0013	U	0.0012	U	0.0012	U	0.0014	U	0.0016	U	0.0047	J	0.0013	U	0.0012	U	0.0012	U
trans-1,2-Dichloroethene	500	1000	mg/kg	0.0019	U	0.0018	U	0.0019	U	0.0021	U	0.023		0.018		0.0019	U	0.0019	U	0.0018	U
Trichloroethene	200	400	mg/kg	0.0013	U	0.022		0.0029		0.00098	J	0.0016	U	0.048		0.0013	U	0.0012	U	0.0012	U
cis-1,2-Dichloroethene	500	1000	mg/kg	0.00063	J	0.03		0.0085		0.0014	U	0.082		1.5		0.0017		0.00048	J	0.0012	U
Acetone	500	1000	mg/kg	0.013	U	0.012	U	0.012	U	0.014	U	0.038		0.056	U	0.013	U	0.012	U	0.012	U
Carbon disulfide	NV	NV	mg/kg	0.013	U	0.012	U	0.012	U	0.014	U	0.016	U	0.056	U	0.013	U	0.012	U	0.012	U
2-Butanone	500	1000	mg/kg	0.013	U	0.012	U	0.012	U	0.014	U	0.0059	J	0.056	U	0.013	U	0.012	U	0.012	U
n-Butylbenzene	500	1000	mg/kg	0.0013	U	0.0012	U	0.0012	U	0.0014	U	0.0016	U	0.0056	U	0.0013	U	0.0012	U	0.0012	U
sec-Butylbenzene	500	1000	mg/kg	0.0013	U	0.0012	U	0.0012	U	0.0014	U	0.0016	U	0.0056	U	0.0013	U	0.0012	U	0.0012	U
tert-Butylbenzene	500	1000	mg/kg	0.0064	U	0.0058	U	0.0062	U	0.0069	U	0.0079	U	0.028	U	0.0064	U	0.0063	U	0.0062	U
Isopropylbenzene	NV	NV	mg/kg	0.0013	U	0.0012	U	0.0012	U	0.0014	U	0.0016	U	0.0056	U	0.0013	U	0.0012	U	0.0012	U
Naphthalene	500	1000	mg/kg	0.0064	U	0.0058	U	0.0062	U	0.0069	U	0.0079	U	0.028	U	0.0064	U	0.0063	U	0.0062	U
n-Propylbenzene	500	1000	mg/kg	0.0013	U	0.0012	U	0.0012	U	0.0014	U	0.0016	U	0.0056	U	0.0013	U	0.0012	U	0.0012	U
1,2,4-Trimethylbenzene	190	380	mg/kg	0.0064	U	0.0058	U	0.0062	U	0.0069	U	0.0079	U	0.028	U	0.0064	U	0.0063	U	0.0062	U
Methyl cyclohexane	NV	NV	mg/kg	0.0051	U	0.0047	U	0.005	U	0.0055	U	0.0063	U	0.022	U	0.0051	U	0.005	U	0.0049	U
<b>Semi-Volatile Organic Compounds - EPA Method 8270 (mg/kg)</b>																					
Acenaphthene	500	1000	mg/kg	NT		NT		NT		0.058	J	NT									
Fluoranthene	500	1000	mg/kg	NT		NT		NT		0.51		NT									
Naphthalene	500	1000	mg/kg	NT		NT		NT		0.22	J	NT									
Benzo(a)anthracene	5.6	11	mg/kg	NT		NT		NT		0.26		NT									
Benzo(a)pyrene	1	1.1	mg/kg	NT		NT		NT		0.32		NT									
Benzo(b)fluoranthene	5.6	11	mg/kg	NT		NT		NT		0.25		NT									
Benzo(k)fluoranthene	56	110	mg/kg	NT		NT		NT		0.24		NT									
Chrysene	56	110	mg/kg	NT		NT		NT		0.25		NT									
Acenaphthylene	500	1000	mg/kg	NT		NT		NT		0.051	J	NT									
Anthracene	500	1000	mg/kg	NT		NT		NT		0.13	J	NT									
Benzo(ghi)perylene	500	1000	mg/kg	NT		NT		NT		0.2		NT									
Fluorene	500	1000	mg/kg	NT		NT		NT		0.083	J	NT									
Phenanthrene	500	1000	mg/kg	NT		NT		NT		0.42		NT									
Dibenzo(a,h)anthracene	0.56	1.1	mg/kg	NT		NT		NT		0.052	J	NT									
Indeno(1,2,3-cd)pyrene	5.6	11	mg/kg	NT		NT		NT		0.17	J	NT									
Pyrene	500	1000	mg/kg	NT		NT		NT		0.44		NT									
Dibenzofuran	350	1000	mg/kg	NT		NT		NT		0.23	U	NT									
2-Methylnaphthalene	NV	NV	mg/kg	NT		NT		NT		0.27	U	NT									
Carbazole	NV	NV	mg/kg	NT		NT		NT		0.068	J	NT									

- Notes:
- Compounds detected in one or more samples are presented on this table. Detections are shown in larger font. Refer to Appendix E for list of all compounds included in analysis.
  - Analytical testing completed by Alpha Analytical, in Westborough, MA.
  - Soil cleanup objectives (SCOs) are from NYSDEC Part 375, Subpart 375-6: Commercial Soil Cleanup Objectives, Industrial Soil Cleanup Objectives, and Protection of Groundwater Standards.
  - ug/kg = part per billion, mg/kg = part per million, bgs = below ground surface.
  - Italics* indicates values exceeding NYSDEC Commercial Soil Cleanup Objectives.
  - Bold** indicates values exceeding NYSDEC Industrial Soil Cleanup Objectives.
  - Gray Shading indicates values exceeding NYSDEC Protection of Groundwater Standard.
  - Pink Shading indicates chlorinated compound of concern.
  - Results shown for MW-4-22-24-7715, MW-6-53-55-71515, and MW-7-51-53-71515 (VOCs); and MW-4-4-6-7715 (SVOCs) are the higher of the initial analysis and re-analysis.
  - NT = Not Tested. NV = No Value
  - U = Value below Method Detection Limits. J = Laboratory qualifier, estimated concentration. E = Concentration exceeds the range of the calibration curve and/or linear range of the instrument.

**Table 2**  
 Soil Analytical Data Summary  
 Off-Site Environmental Characterization Report  
 Coyne Textile Services  
 140 Cortland Avenue and 207 West Taylor Street  
 Syracuse, New York

LOCATION SAMPLING DATE	Part 375 Restricted Use Soil Cleanup Objectives (SCOs)			MW-6-49-51_071315 7/13/2015	Qual	MW-6-53-55_071315 7/13/2015	Qual	MW-7-7-9-71515 7/15/2015	Qual	MW-7-19-21-71515 7/15/2015	Qual	FIELD DUPLICATE (MW-7-19-21-71515) 7/15/2015	Qual	MW-7-21-23-71515 7/15/2015	Qual	MW-7-29-31-71515 7/15/2015	Qual	MW-7-41-43-71515 7/15/2015	Qual	MW-7-51-53-71515 7/15/2015	Qual
	NYS Restricted Commercial	NYS Restricted Industrial	Units																		
<b>Volatiles Organic Compounds - EPA Method 8260 TCL &amp; STARS (mg/kg)</b>																					
1,1-Dichloroethane	240	480	mg/kg	0.0018	U	0.0018	U	0.0053	U	0.0017	U	0.0083	U	0.002	U	0.0019	U	0.0019	U	0.0018	U
Chloroform	350	700	mg/kg	0.0018	U	0.0018	U	0.0053	U	0.0017	U	0.0083	U	0.002	U	0.0019	U	0.0019	U	0.0018	U
Tetrachloroethene	150	300	mg/kg	0.0012	U	0.0012	U	0.0036	U	0.0011	U	0.0055	U	0.0013	U	0.0012	U	0.0012	U	0.0012	U
Benzene	44	89	mg/kg	0.0012	U	0.0012	U	0.0036	U	0.00059	J	0.0048	J	0.0013	U	0.0012	U	0.0012	U	0.0012	U
Vinyl chloride	13	27	mg/kg	0.0025	U	0.00031	J	0.0071	U	0.095		0.75		0.091		0.0025	U	0.0025	U	0.00049	J
1,1-Dichloroethene	500	1000	mg/kg	0.0012	U	0.0012	U	0.0036	U	0.0005	J	0.0047	J	0.0013	U	0.0012	U	0.0012	U	0.0012	U
trans-1,2-Dichloroethene	500	1000	mg/kg	0.0018	U	0.0018	U	0.0053	U	0.0022		0.015		0.002	U	0.0019	U	0.0019	U	0.0018	U
Trichloroethene	200	400	mg/kg	0.0012	U	0.0012	U	0.0036	U	0.0011	U	0.0055	U	0.0013	U	0.0012	U	0.0012	U	0.0012	U
cis-1,2-Dichloroethene	500	1000	mg/kg	0.0012	U	0.0003	J	0.0036	U	0.26		1.6		0.00043	J	0.0012	U	0.0012	U	0.00033	J
Acetone	500	1000	mg/kg	0.012	U	0.012	U	0.086		0.011	U	0.055	U	0.013	U	0.012	U	0.012	U	0.012	U
Carbon disulfide	NV	NV	mg/kg	0.012	U	0.012	U	0.036	U	0.0027	J	0.029	J	0.013	U	0.012	U	0.012	U	0.012	U
2-Butanone	500	1000	mg/kg	0.012	U	0.012	U	0.019	J	0.011	U	0.055	U	0.013	U	0.012	U	0.012	U	0.012	U
n-Butylbenzene	500	1000	mg/kg	0.0012	U	0.0012	U	0.056		0.0011	U	0.0055	U	0.0013	U	0.0012	U	0.0012	U	0.0012	U
sec-Butylbenzene	500	1000	mg/kg	0.0012	U	0.0012	U	0.076		0.0011	U	0.0055	U	0.0013	U	0.0012	U	0.0012	U	0.0012	U
tert-Butylbenzene	500	1000	mg/kg	0.0062	U	0.0061	U	0.0028	J	0.0056	U	0.028	U	0.0067	U	0.0062	U	0.0062	U	0.0062	U
Isopropylbenzene	NV	NV	mg/kg	0.0012	U	0.0012	U	0.021		0.0011	U	0.0055	U	0.0013	U	0.0012	U	0.0012	U	0.0012	U
Naphthalene	500	1000	mg/kg	0.0062	U	0.0061	U	0.018	U	0.0056	U	0.028	U	0.0067	U	0.0062	U	0.0062	U	0.0062	U
n-Propylbenzene	500	1000	mg/kg	0.0012	U	0.0012	U	0.014		0.0011	U	0.0055	U	0.0013	U	0.0012	U	0.0012	U	0.0012	U
1,2,4-Trimethylbenzene	190	380	mg/kg	0.0062	U	0.0061	U	0.018	U	0.0056	U	0.028	U	0.0067	U	0.0062	U	0.0062	U	0.0062	U
Methyl cyclohexane	NV	NV	mg/kg	0.0049	U	0.0049	U	0.0045	J	0.0044	U	0.022	U	0.0053	U	0.005	U	0.005	U	0.0049	U
<b>Semi-Volatile Organic Compounds - EPA Method 8270 (mg/kg)</b>																					
Acenaphthene	500	1000	mg/kg	NT		NT		0.048	J	NT		NT		NT		NT		NT		NT	
Fluoranthene	500	1000	mg/kg	NT		NT		0.32		NT		NT		NT		NT		NT		NT	
Naphthalene	500	1000	mg/kg	NT		NT		0.24		NT		NT		NT		NT		NT		NT	
Benzo(a)anthracene	5.6	11	mg/kg	NT		NT		0.17		NT		NT		NT		NT		NT		NT	
Benzo(a)pyrene	1	1.1	mg/kg	NT		NT		0.19		NT		NT		NT		NT		NT		NT	
Benzo(b)fluoranthene	5.6	11	mg/kg	NT		NT		0.16		NT		NT		NT		NT		NT		NT	
Benzo(k)fluoranthene	56	110	mg/kg	NT		NT		0.16		NT		NT		NT		NT		NT		NT	
Chrysene	56	110	mg/kg	NT		NT		0.17		NT		NT		NT		NT		NT		NT	
Acenaphthylene	500	1000	mg/kg	NT		NT		0.19	U	NT		NT		NT		NT		NT		NT	
Anthracene	500	1000	mg/kg	NT		NT		0.078	J	NT		NT		NT		NT		NT		NT	
Benzo(ghi)perylene	500	1000	mg/kg	NT		NT		0.11	J	NT		NT		NT		NT		NT		NT	
Fluorene	500	1000	mg/kg	NT		NT		0.08	J	NT		NT		NT		NT		NT		NT	
Phenanthrene	500	1000	mg/kg	NT		NT		0.29		NT		NT		NT		NT		NT		NT	
Dibenzo(a,h)anthracene	0.56	1.1	mg/kg	NT		NT		0.14	U	NT		NT		NT		NT		NT		NT	
Indeno(1,2,3-cd)pyrene	5.6	11	mg/kg	NT		NT		0.1	J	NT		NT		NT		NT		NT		NT	
Pyrene	500	1000	mg/kg	NT		NT		0.29		NT		NT		NT		NT		NT		NT	
Dibenzofuran	350	1000	mg/kg	NT		NT		0.23	U	NT		NT		NT		NT		NT		NT	
2-Methylnaphthalene	NV	NV	mg/kg	NT		NT		0.22	J	NT		NT		NT		NT		NT		NT	
Carbazole	NV	NV	mg/kg	NT		NT		0.23	U	NT		NT		NT		NT		NT		NT	

Notes:  
 1. Compounds detected in one or more samples are presented on this table. Detections are shown in larger font. Refer to Appendix E for list of all compounds included in analysis.  
 2. Analytical testing completed by Alpha Analytical, in Westborough, MA.  
 3. Soil cleanup objectives (SCOs) are from NYSDEC Part 375, Subpart 375-6: Commercial Soil Cleanup Objectives, Industrial Soil Cleanup Objectives, and Protection of Groundwater Standards.  
 4. ug/kg = part per billion, mg/kg = part per million, bgs = below ground surface.  
 5. *Italics* indicates values exceeding NYSDEC Commercial Soil Cleanup Objectives.  
 6. **Bold** indicates values exceeding NYSDEC Industrial Soil Cleanup Objectives.  
 7. Gray Shading indicates values exceeding NYSDEC Protection of Groundwater Standard.  
 8. Pink Shading indicates chlorinated compound of concern.  
 9. Results shown for MW-4-22-24-7715, MW-6-53-55-71515, and MW-7-51-53-71515 (VOCs); and MW-4-4-6-7715 (SVOCs) are the higher of the initial analysis and re-analysis.  
 10. NT = Not Tested. NV = No Value.  
 11. U = Value below Method Detection Limits. J = Laboratory qualifier, estimated concentration. E = Concentration exceeds the range of the calibration curve and/or linear range of the instrument.

**Table 3**  
**Groundwater Analytical Data Summary**  
**Off-Site Environmental Characterization Report**  
**Coyne Textile Services**  
**140 Cortland Avenue and 207 West Taylor Street**  
**Syracuse, New York**

LOCATION SAMPLING DATE	NY-Class GA Criteria	Units	MW-4-72015 7/20/2015	Qual	MW-5A-72015 7/20/2015	Qual	FIELD DUPLICATE 002 7/20/2015	Qual	MW-5B-72115 7/21/2015	Qual	MW-5C-72115 7/21/2015	Qual	MW-6A-72115 7/21/2015	Qual	MW-6B-72315 7/23/2015	Qual	MW-6C-72315 7/23/2015	Qual	MW-7A-72215 7/22/2015	Qual	MW-7B-72215 7/22/2015	Qual	MW-7C-72215 7/22/2015	Qual
Volatile Organic Compounds - EPA Method 8260 TCL (µg/l)																								
Chloroform	7	ug/l	2.5	U	25	U	25	U	2.5	U	2.5	U	250	U	120	U	25	U	10	U	2.5		0.83	J
Tetrachloroethene	5	ug/l	0.5	U	2900	E	3100	E	5.7		2.7		34	J	27		5	U	2	U	0.5	U	0.5	U
Benzene	1	ug/l	0.92		4.4	J	4.3	J	0.5	U	0.5	U	50	U	25	U	5	U	0.74	J	0.2	J	0.5	U
Vinyl chloride	2	ug/l	3.3		110		110		1.1		0.5	J	2000		3200		10	U	500		210	E	0.87	J
1,1-Dichloroethene	5	ug/l	0.5	U	6.5		5	U	0.5	U	0.5	U	50	U	15	J	5	U	2	U	0.5	U	0.5	U
trans-1,2-Dichloroethene	5	ug/l	2.5	U	12	J	14	J	2.5	U	2.5	U	230	J	150		25	U	10	U	1.1	J	2.5	U
Trichloroethene	5	ug/l	0.5	U	1900		2000		2.2		1.6		260		290		5	U	2	U	0.5	U	0.5	U
cis-1,2-Dichloroethene	5	ug/l	3.7		2400	E	2400	E	6.1		4.2		5300		5600		25	U	460		180		1.4	J
Acetone	50	ug/l	1.6	J	50	U	50	U	4.8	J	5	U	500	U	250	U	50	U	14	J	16		2.3	J
Carbon disulfide	60	ug/l	5	U	50	U	50	U	5	U	5	U	500	U	250	U	50	U	20	U	6.4		1	J
2-Butanone	50	ug/l	5	U	50	U	50	U	5	U	5	U	500	U	250	U	50	U	20	U	1.9	J	5	U

Notes:

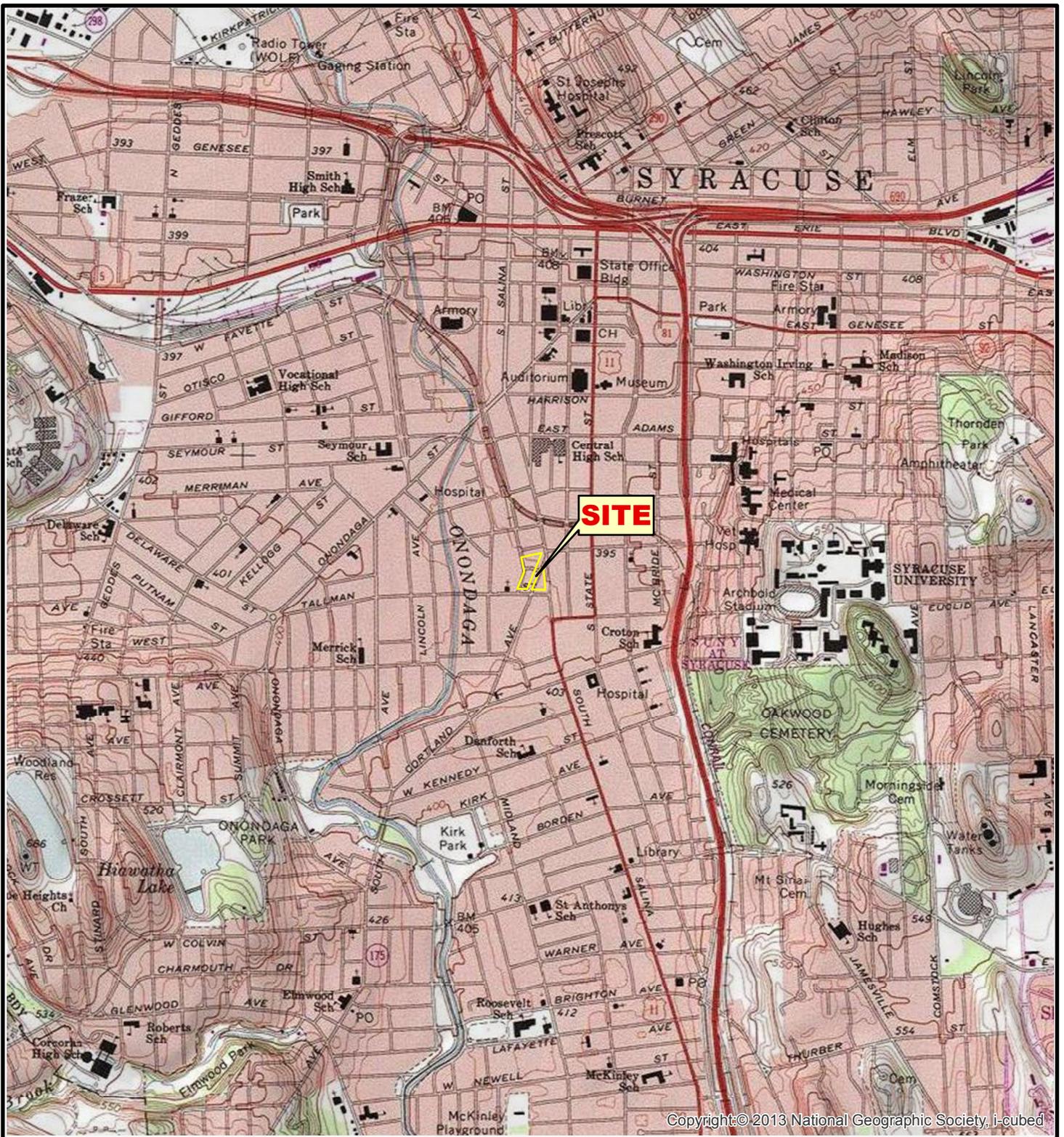
- Compounds detected in one or more samples are presented on this table. Refer to Appendix E for list of all compounds included in analysis.
- Analytical testing completed by Alpha Analytical, in Westborough, MA.
- New York State Department of Environmental Conservation Class GA criteria obtained from Division of Water Technical and Operational Guidance Series (TOGS 1.1.1) dated October 1993, revised June 1998, January 1999 errata sheet and April 2000 addendum.
- ug/L = part per billion (ppb).
- Gray shading indicates values exceeding NYSDEC Class GA groundwater criteria.
- Pink shading indicates chlorinated compound of concern.
- NT = Not tested.
- Field Duplicate 002 is associated with the groundwater sample collected from MW-5A
- U = Value below Method Detection Limits. J = Laboratory qualifier, estimated concentration. E = Concentration exceeds the range of the calibration curve and/or linear range of the instrument.

**Table 4**  
**Groundwater Monitored Natural Attenuation Parameters Analytical Data Summary**  
**Off-Site Environmental Characterization Report**  
**Coyne Textile Services**  
**140 Cortland Avenue and 207 West Taylor Street**  
**Syracuse, New York**

LOCATION SAMPLING DATE	MW-4-72015 7/17/2015		MW-5A-72015 7/20/2015		FIELD DUPLICATE 002 7/20/2015		MW-5B-72115 7/21/2015		MW-5C-72115 7/21/2015		MW-6A-72115 7/21/2015		MW-6B-72315 7/23/2015		MW-6C-72315 7/23/2015		MW-7A-72215 7/22/2015		MW-7B-72215 7/22/2015		MW-7C-72215 7/22/2015		Equipment Blank 001 7/23/2015	
		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual
<b>Field Parameters</b>																								
Temperature (Deg. C)	23.12		21.1		-		18.3		17.9		20.4		20.1		22.8		26.3		26.9		19.1		-	
Specific Conductance (mS/cm)	3.53		3.5		-		2.48		2.75		3.42		3.6		2.95		2.62		2.63		2.74		-	
Dissolved Oxygen (mg/L)	0.49		1.24		-		0.38		2.76		0.31		0.21		0.96		0.06		0.2		0.24		-	
Oxygen Reduction Potential (mv)	-49.8		-117.2		-		-161.2		-103.5		-62.6		-117.9		-108.2		-140.6		-30.4		-111.1		-	
pH (std. units)	6.8		6.94		-		7.04		7.08		6.83		6.83		6.95		6.78		6.9		6.88		-	
Turbidity (NTUs)	17.8		46.9		-		5.2		46.2		16.2		4.4		45.1		73		140		93		-	
<b>Dissolved Gases - EPA Method RSK 175 (ug/L)</b>																								
Ethane	104		82.6		69.8		1.43		1.51		1080		728		2		17.4		3.07		0.814		0.5	U
Ethene	14.9		32.3		27.8		0.5	U	0.5	U	625		593		1.05		56.8		12.5		0.5	U	0.5	U
Methane	1260		619		526		107		47.7		5700		3880		16.9		3030		207		37.7		0.5	U
<b>Total Metals - EPA Method 6010 (ug/L)</b>																								
Iron, Total	2970		2660		1970		3990		1110		3940		2490		1450		9500		3540		4780		50	U
Manganese, Total	450		356.9		363.7		152		156.3		364		336.2		92.17		749.1		403.1		197		0.3	J
<b>Alkalinity - EPA Method 310.1 (mg/L)</b>																								
Alkalinity, Total	613		467		446		338		311		560		528		309		540		446		292		2	U
<b>Total Organic Carbon - EPA Method 6090 (ug/L)</b>																								
Total Organic Carbon	14000		9400		8900		4000		1600		18000		13000		3000		23000		19000		5600		200	J
<b>Nitrate - EPA Method 353.2 (ug/L)</b>																								
Nitrogen, Nitrate	22	J	84	J	32	J	130		50	J	430		56	J	31	J	58	J	85	J	59	J	50	J
<b>Sulfate - EPA Method 300</b>																								
Sulfate	42600		72400		72500		182000		670000		58000		68100		719000		150000		283000		682000		622	J

- Notes:
1. Compounds detected in one or more samples are presented on this table. Refer to Appendix E for list of all compounds included in analysis.
  2. Analytical testing completed by Alpha Analytical, in Westborough, MA.
  3. mg/L = part per million (ppm); ug/L = part per billion (ppb).
  4. NV = No Value. U = Value below Method Detection Limits. J = Laboratory qualifier, estimated concentration.
  5. Results shown for MW-7A are the higher of the initial analysis and re-analysis.
  6. Field Duplicate 002 is associated with the groundwater sample collected from MW-5A.

## **FIGURES**

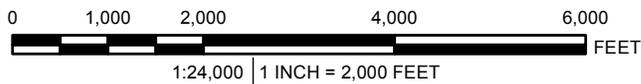


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SOURCE : THIS MAP CONTAINS THE ESRI ARCGIS ONLINE WORLD TOPOGRAPHIC MAP SERVICE, PUBLISHED FEBRUARY 2011 BY ESRI ARCGIS SERVICES. THE SERVICE WAS COMPILED TO UNIFORM CARTOGRAPHY USING A VARIETY OF BEST AVAILABLE SOURCES FROM SEVERAL DATA PROVIDERS.

Data Supplied by :



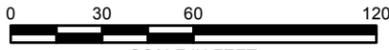
PROJ MGR: TB	REVIEWED BY: TB	140 CORTLAND AVE SYRACUSE, NEW YORK 13202	JOB NO. 21.0056730.40
DESIGNED BY: TB	DRAWN BY: PCF		FIGURE NO. <b>1</b>
GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		DATE: AUGUST 2015	SITE LOCUS

© 2015 - GZA GeoEnvironmental, Inc. T:\Clients\Coyne\Offsite\_MW\Installation\MXD\Figure2\_SoilAnalytical\Shallow.mxd, 8/5/2015, 10:23:07 AM, patrick.finnerty



**Legend:**

-  Monitoring Well
-  Approximate Site Boundary

SCALE IN FEET

NOTES: 1) Site outline is approximate and is derived from a georeferenced Boundary Map provided by Coyne Textile Services. All site features are approximate.

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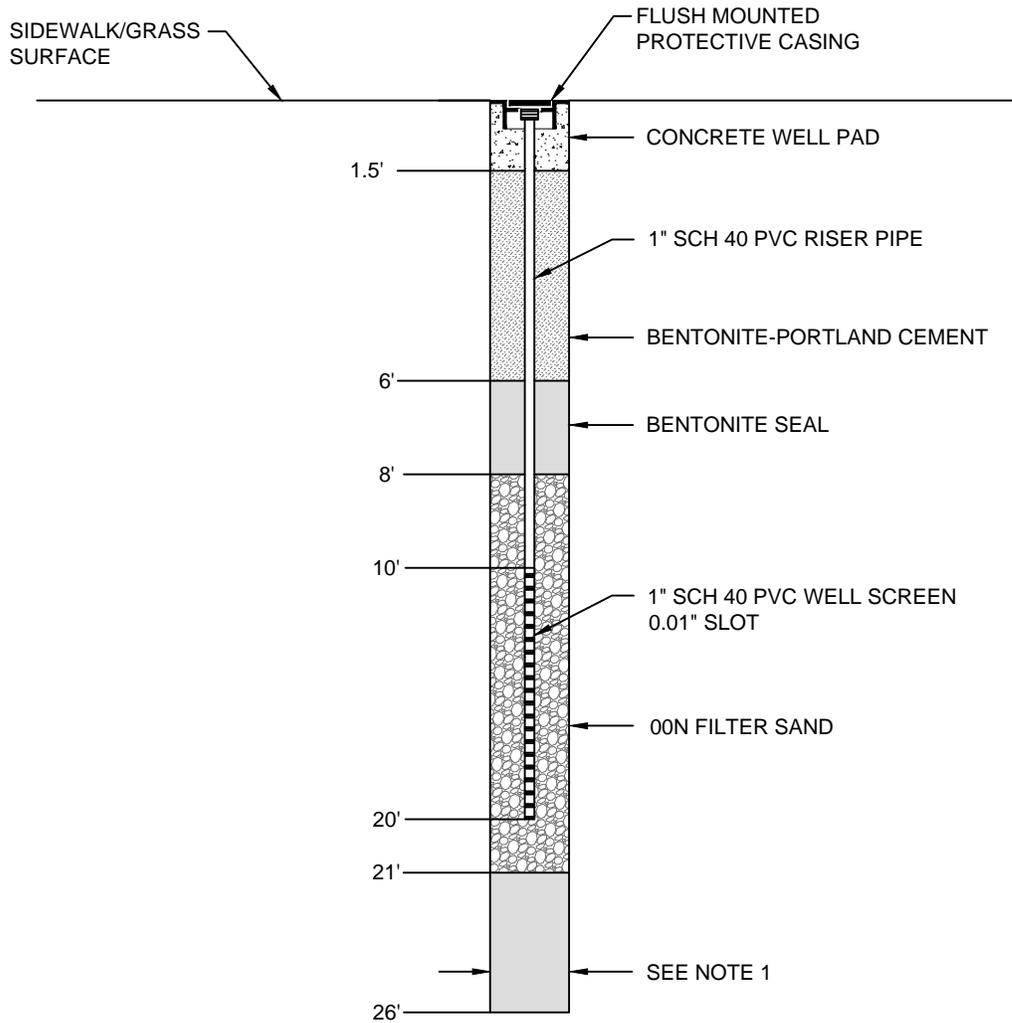
140 CORTLAND AVENUE  
SYRACUSE, NEW YORK 13202

**SITE PLAN**

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--	---

PROJ MGR: TB	REVIEWED BY: TB	CHECKED BY: BK	FIGURE <b>2</b>
DESIGNED BY: TB	DRAWN BY: PCF	SCALE: 1 in = 60 ft	
DATE: AUGUST 2015	PROJECT NO. 21.0056730.40	REVISION NO.	

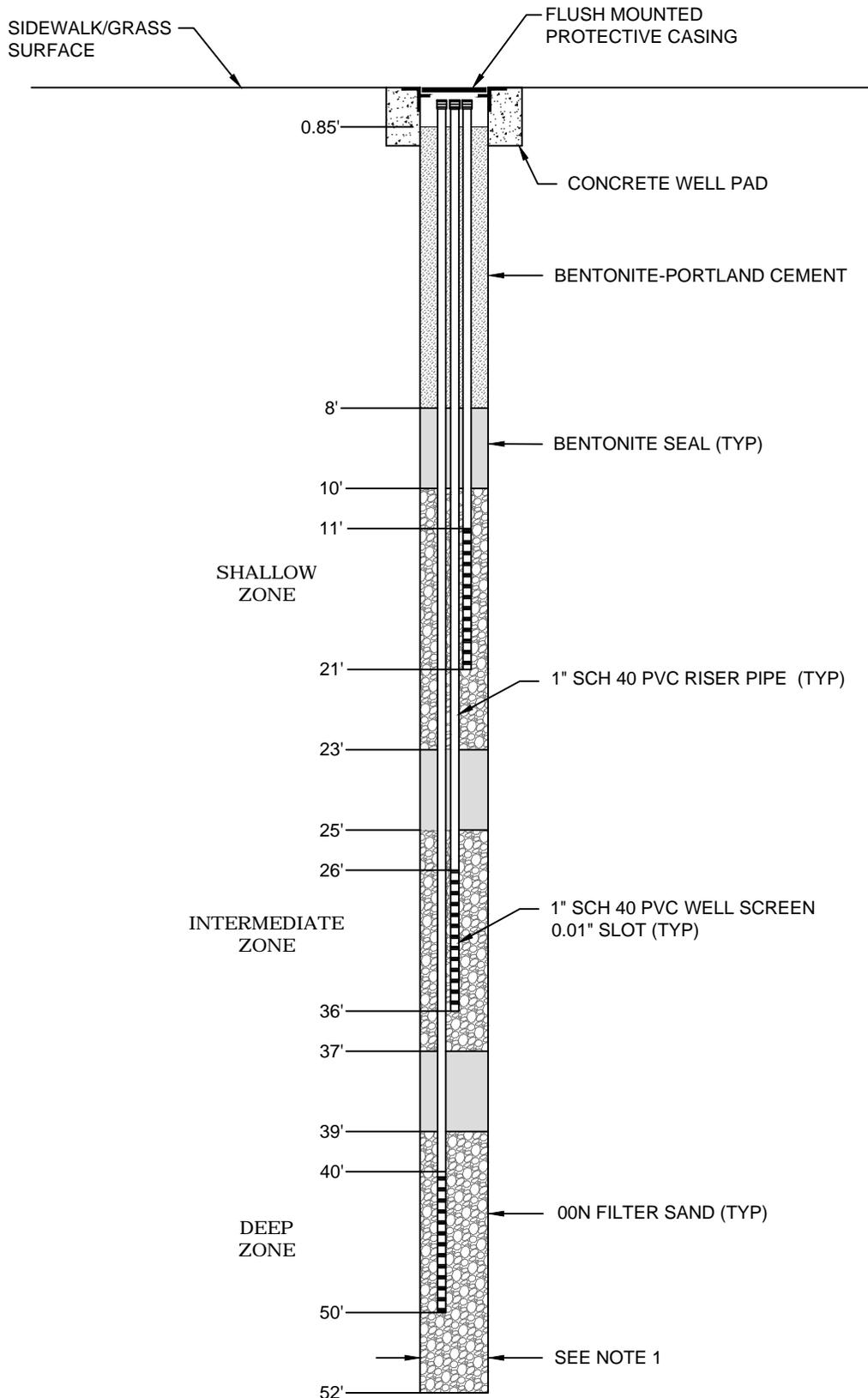




**NOTES:**

1. OVERBURDEN DRILLED WITH 6 1/4 INCH I.D. HOLLOW STEM AUGERS TO A DEPTH OF 26.0 FEET BELOW GROUND SURFACE.
2. DRAWING IS NOT TO SCALE. WELL HAS BEEN DEPICTED WITH HORIZONTAL EXAGGERATION FOR PURPOSES OF PRESENTATION.

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PROJECT MGR: TB DESIGNED BY: TGB DATE: AUGUST 2015		REVIEWED BY: TB DRAWN BY: MR PROJECT NO. 21.0056730.40		FIGURE <b>3A</b>	
COYNE TEXTILE SERVICES 140 CORTLAND AVENUE CITY OF SYRACUSE, NEW YORK			MW-4 MONITORING WELL INSTALLATION DIAGRAM		
NO.	ISSUE/DESCRIPTION	BY	DATE		
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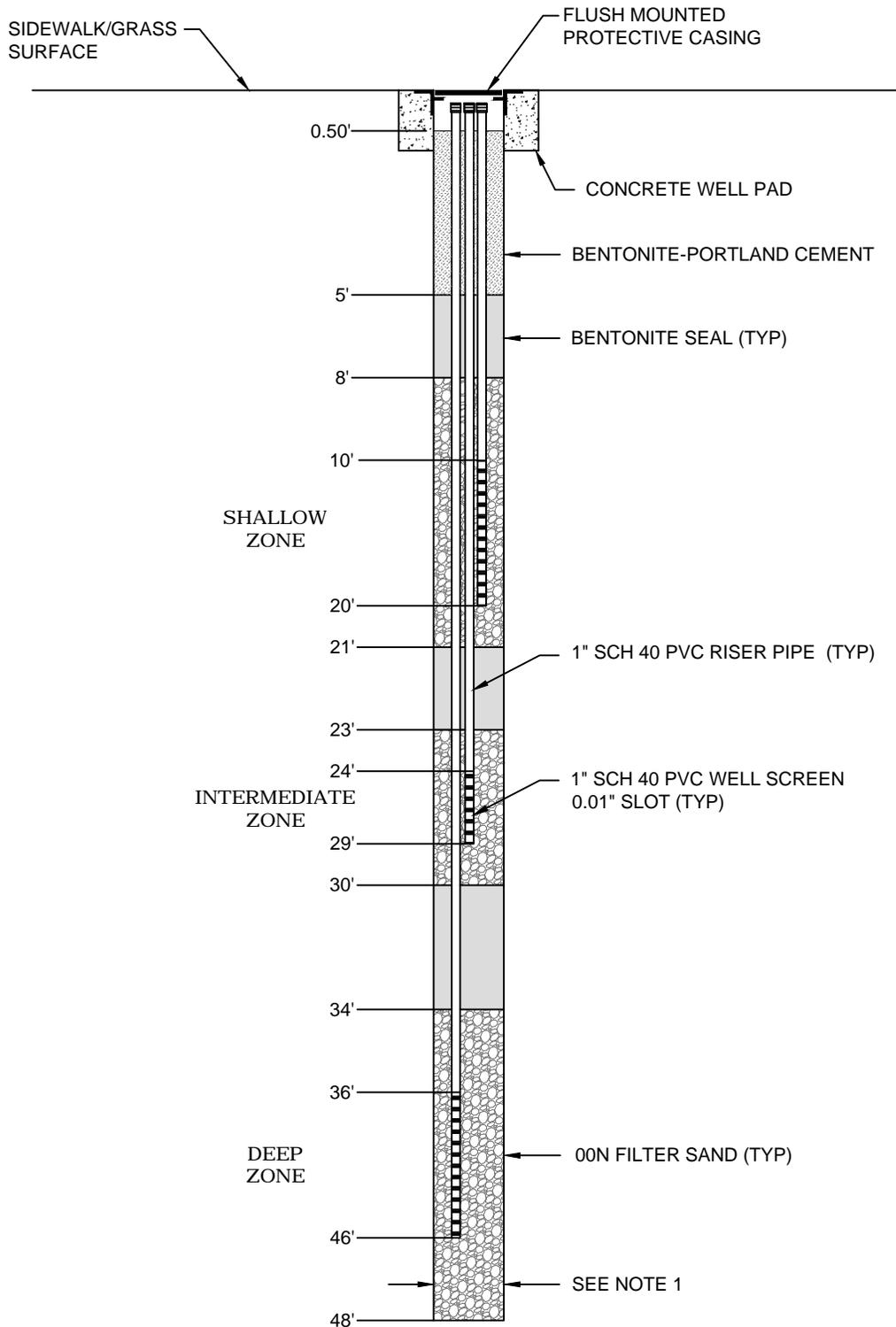
**NOTES:**

1. OVERBURDEN DRILLED WITH 6 1/4 INCH I.D. HOLLOW STEM AUGERS TO A DEPTH OF 52.0 FEET BELOW GROUND SURFACE.
2. DRAWING IS NOT TO SCALE. WELL HAS BEEN DEPICTED WITH HORIZONTAL EXAGGERATION FOR PURPOSES OF PRESENTATION.

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PREPARED BY: GZA GeoEnvironmental of NY Engineers and Scientists www.gza.com		REVIEWED BY: TB DRAWN BY: MR PROJECT NO. 21.0056730.40	
COYNE TEXTILE SERVICES 140 CORTLAND AVENUE CITY OF SYRACUSE, NEW YORK		AUGUST 2015	
MW-5 NESTED MONITORING WELL INSTALLATION DIAGRAM			
NO.	ISSUE/DESCRIPTION	BY	DATE

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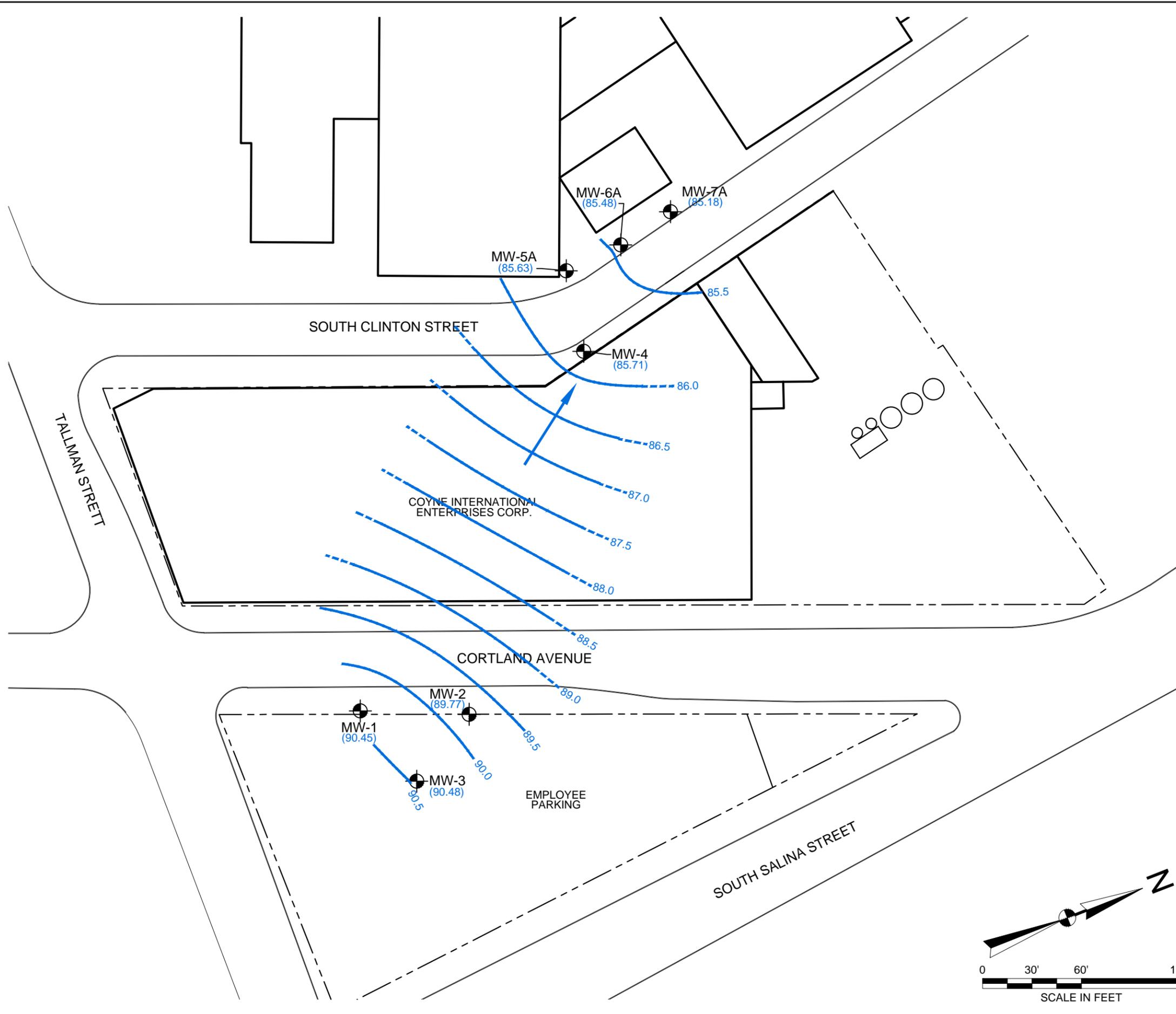


**NOTES:**

1. OVERBURDEN DRILLED WITH 6 1/4 INCH I.D. HOLLOW STEM AUGERS TO A DEPTH OF 48.0 FEET BELOW GROUND SURFACE.
2. DRAWING IS NOT TO SCALE. WELL HAS BEEN DEPICTED WITH HORIZONTAL EXAGGERATION FOR PURPOSES OF PRESENTATION.

<p>PREPARED FOR: COYNE TEXTILE SERVICES</p>		<p>FIGURE 3D</p>	
<p>PREPARED BY: GZA GeoEnvironmental of NY Engineers and Scientists www.gza.com</p>		<p>CHECKED BY: BK</p>	
<p>PROJECT MGR: TB</p>		<p>SCALE: NOT TO SCALE</p>	
<p>DESIGNED BY: TGB</p>		<p>REVISION NO.</p>	
<p>DATE: AUGUST 2015</p>		<p>PROJECT NO. 21.0056730.40</p>	
<p>COYNE TEXTILE SERVICES 140 CORTLAND AVENUE CITY OF SYRACUSE, NEW YORK</p>			
<p>MW-7 NESTED MONITORING WELL INSTALLATION DIAGRAM</p>			
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- LEGEND:**
- APPROXIMATE SITE BOUNDARY
  - BUILDING LOCATION
  - MW-7A MONITORING WELL LOCATION
  - 85.3 SHALLOW GROUNDWATER CONTOUR (INTERVAL 0.1')
  - (85.18) GROUNDWATER ELEVATION (FEET)
  - GROUNDWATER FLOW DIRECTION

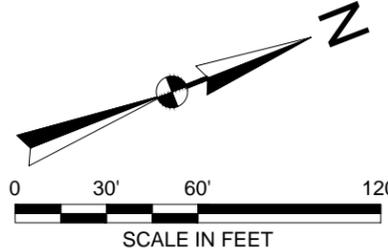
- NOTES:**
1. RELATIVE ELEVATION IS BASED OFF OF A BOLT 2.37 FT FROM GROUND SURFACE ON THE UPPER FLANGE, LOCATED ON THE WESTERN SIDE OF THE FIRE HYDRANT. THIS BOLT IS MARKED WITH A "X" AND IS ASSUMED TO BE A 100 FT.
  2. BASE MAP DEVELOPED FROM A GOOGLE PROFESSIONAL ELECTRONIC IMAGE FILE. DIGITAL AERIAL ORTHOPHOTOGRAPHY WAS COLLECTED ON AUGUST 5, 2015.
  3. THE LOCATION OF THE MONITORING WELLS WERE DETERMINED BY GPS FROM EXISTING TOPOGRAPHIC FEATURES. THESE DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.

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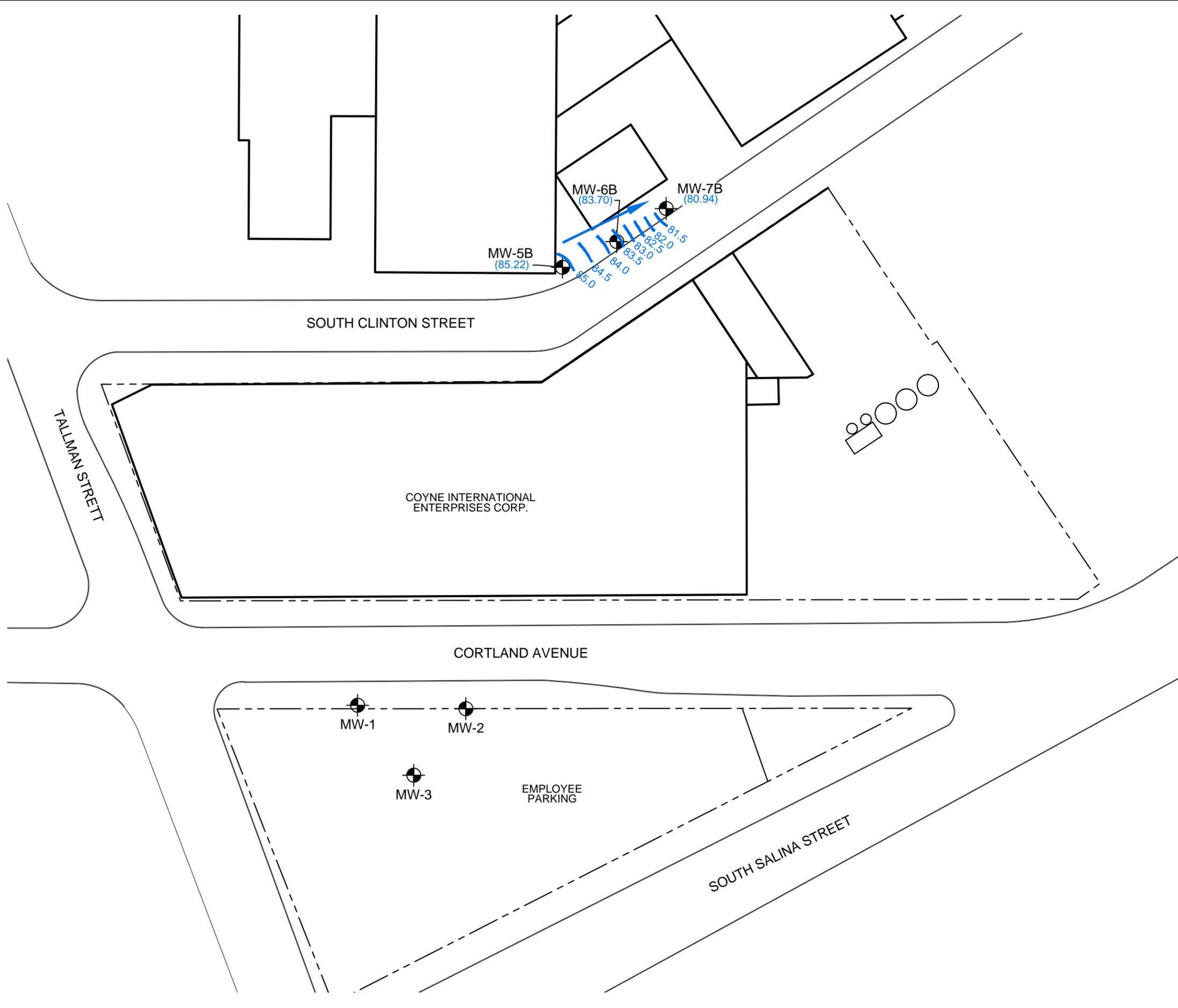
140 CORTLAND AVENUE  
SYRACUSE, NEW YORK 13202

SHALLOW GROUNDWATER CONTOURS  
AUGUST 12, 2015

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PRJ MGR: TB	REVIEWED BY: TB	CHECKED BY: BK	FIGURE <b>4A</b> SHEET NO.
DESIGNED BY: TB	DRAWN BY: EM	SCALE: 1" = 60'	
DATE: AUGUST 2015	PROJECT NO. 21.0056730.40	REVISION NO.	



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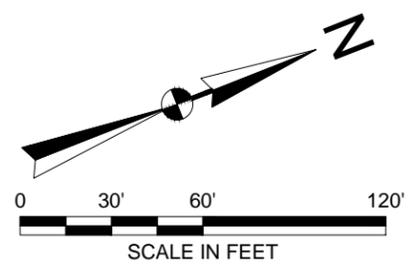


**LEGEND:**

- APPROXIMATE SITE BOUNDARY
- BUILDING LOCATION
- MW-7B ● MONITORING WELL LOCATION
- 85.0 — INTERMEDIATE GROUNDWATER CONTOUR (INTERVAL 0.5')
- (80.94) GROUNDWATER ELEVATION (FEET)
- ← GROUNDWATER FLOW DIRECTION

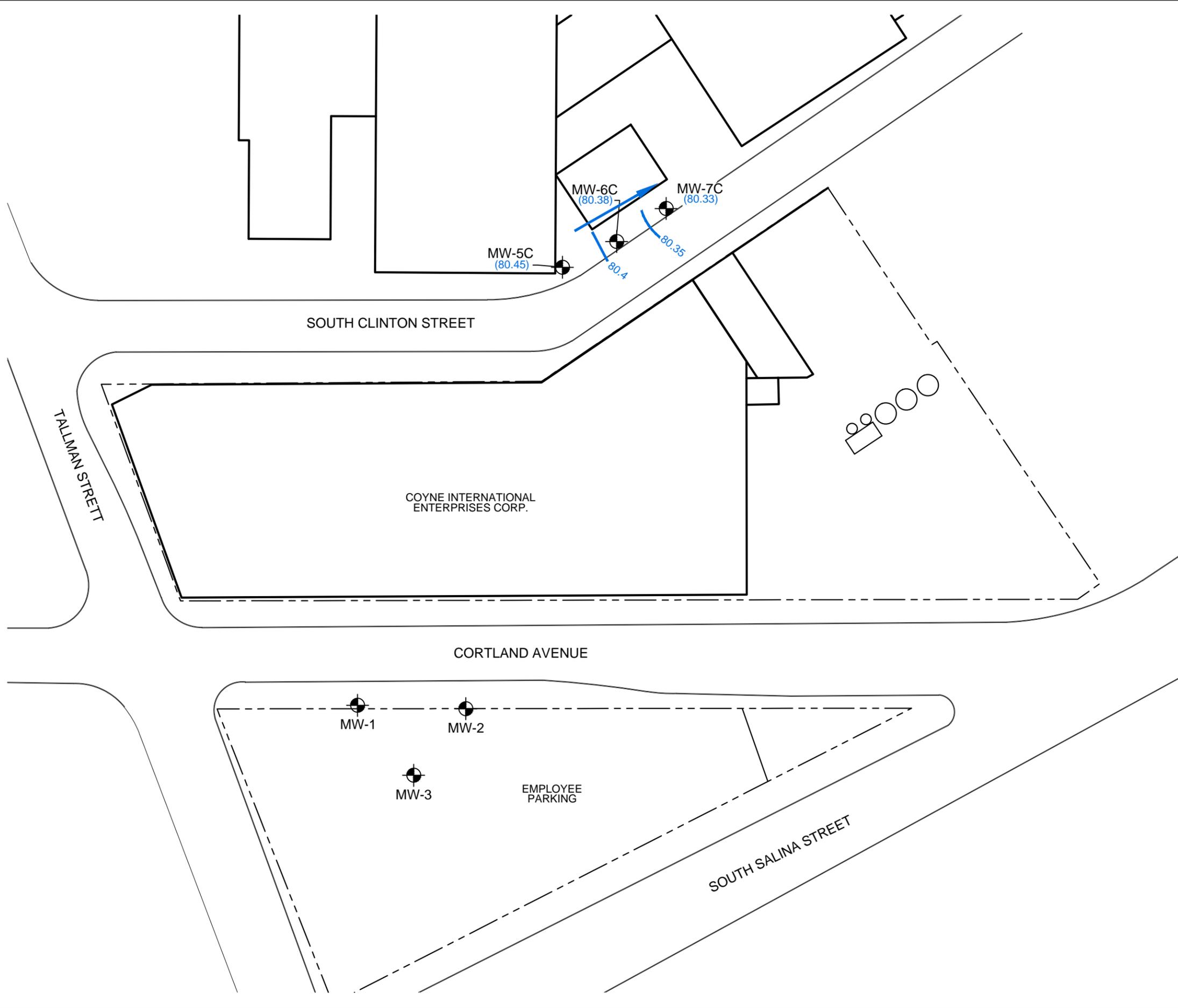
**NOTES:**

1. RELATIVE ELEVATION IS BASED OFF OF A BOLT 2.37 FT FROM GROUND SURFACE ON THE UPPER FLANGE, LOCATED ON THE WESTERN SIDE OF THE FIRE HYDRANT. THIS BOLT IS MARKED WITH A "X" AND IS ASSUMED TO BE A 100 FT.
2. BASE MAP DEVELOPED FROM A GOOGLE PROFESSIONAL ELECTRONIC IMAGE FILE. DIGITAL AERIAL ORTHOPHOTOGRAPHY WAS COLLECTED ON AUGUST 5, 2015.
3. THE LOCATION OF THE MONITORING WELLS WERE DETERMINED BY GPS FROM EXISTING TOPOGRAPHIC FEATURES. THESE DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.



NO.	ISSUE/DESCRIPTION	BY	DATE
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<b>140 CORTLAND AVENUE SYRACUSE, NEW YORK 13202</b>			
<b>INTERMEDIATE GROUNDWATER CONTOURS AUGUST 12, 2015</b>			
<small>PREPARED BY:</small> <b>GZA GeoEnvironmental, Inc.</b> Engineers and Scientists www.gza.com		<small>PREPARED FOR:</small> COYNE TEXTILE SERVICES	
<small>PROJ MGR:</small> TB <small>DESIGNED BY:</small> TB <small>DATE:</small> AUGUST 2015	<small>REVIEWED BY:</small> TB <small>DRAWN BY:</small> TM <small>PROJECT NO.:</small> 21.0056730.40	<small>CHECKED BY:</small> BK <small>SCALE:</small> 1" = 60' <small>REVISION NO.:</small>	<b>FIGURE</b> <b>4B</b> <small>SHEET NO.</small>

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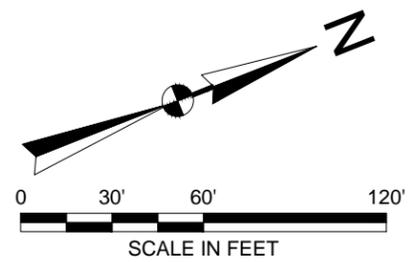


**LEGEND:**

- APPROXIMATE SITE BOUNDARY
- BUILDING LOCATION
- MW-7B ● MONITORING WELL LOCATION
- 85.0 — INTERMEDIATE GROUNDWATER CONTOUR (INTERVAL 0.05')
- (80.94) GROUNDWATER ELEVATION (FEET)
- ← GROUNDWATER FLOW DIRECTION

**NOTES:**

1. RELATIVE ELEVATION IS BASED OFF OF A BOLT 2.37 FT FROM GROUND SURFACE ON THE UPPER FLANGE, LOCATED ON THE WESTERN SIDE OF THE FIRE HYDRANT. THIS BOLT IS MARKED WITH A "X" AND IS ASSUMED TO BE A 100 FT.
2. BASE MAP DEVELOPED FROM A GOOGLE PROFESSIONAL ELECTRONIC IMAGE FILE. DIGITAL AERIAL ORTHOPHOTOGRAPHY WAS COLLECTED ON AUGUST 5, 2015.
3. THE LOCATION OF THE MONITORING WELLS WERE DETERMINED BY GPS FROM EXISTING TOPOGRAPHIC FEATURES. THESE DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.



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140 CORTLAND AVENUE  
SYRACUSE, NEW YORK 13202

DEEP GROUNDWATER CONTOURS  
AUGUST 12, 2015

PREPARED BY: **GZA GeoEnvironmental, Inc.**  
Engineers and Scientists  
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PREPARED FOR:  
COYNE TEXTILE SERVICES

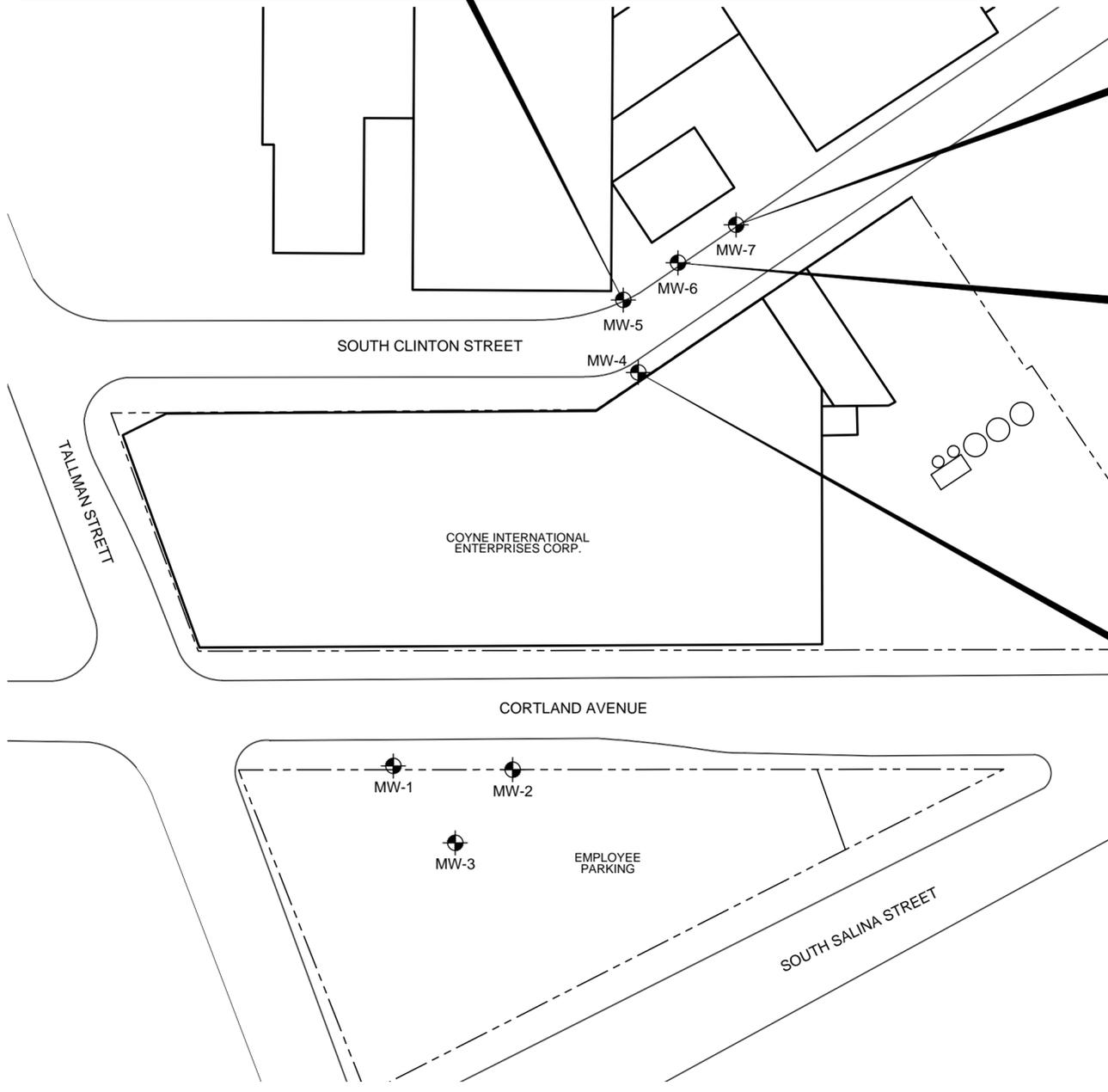
PROJ MGR: TB	REVIEWED BY: TB	CHECKED BY: BK	FIGURE <b>4C</b> SHEET NO.
DESIGNED BY: TB	DRAWN BY: TM	SCALE: 1" = 60'	
DATE: AUGUST 2015	PROJECT NO. 21.0056730.40	REVISION NO.	

LOCATION SAMPLING DATE DEPTH (FEET)	NYS Restricted Industrial	MW-5-5-7-7915 7/9/2015 5 - 7 mg/kg	MW-5-11-13-7915 7/9/2015 11 - 13 mg/kg	MW-5-17-19-7915 7/9/2015 17 - 19 mg/kg	MW-5-19-21-7915 7/9/2015 19 - 21 mg/kg	MW-5-29-31-7915 7/9/2015 29 - 31 mg/kg	MW-5-35-37-7915 7/9/2015 35 - 37 mg/kg	MW-5-45-47-7915 7/9/2015 45 - 47 mg/kg
<b>Volatle Organic Compounds - EPA Method 8260 TCL &amp; STARS (mg/kg)</b>								
1,1-Dichloroethane	480	ND	0.0028	0.092	1	ND	ND	ND
Tetrachloroethene	300	0.063	ND	9.1	150	0.00047 J	0.062	0.0063
Benzene	89	0.00038 J	0.00042 J	0.013 J	0.68	ND	ND	ND
Vinyl chloride	27	ND	0.032	0.081 J	0.17 J	ND	0.0027	0.0014 J
trans-1,2-Dichloroethene	1000	ND	0.00061 J	0.034 J	1	ND	ND	ND
Trichloroethene	400	0.0024	ND	2	14	ND	0.022	0.0029
cis-1,2-Dichloroethene	1000	ND	0.0017	3.7	4.2	0.00063 J	0.03	0.0085
Acetone	1000	ND	0.028	ND	ND	ND	ND	ND
2-Butanone	1000	ND	0.0047 J	ND	ND	ND	ND	ND
<b>Semi-Volatile Organic Compounds - EPA Method 8270 (mg/kg)</b>								
Acenaphthene	1000	0.056 J	NT	NT	NT	NT	NT	NT
Fluoranthene	1000	0.97	NT	NT	NT	NT	NT	NT
Naphthalene	1000	0.19 J	NT	NT	NT	NT	NT	NT
Benzo(a)anthracene	11	0.46	NT	NT	NT	NT	NT	NT
Benzo(a)pyrene	1.1	0.46	NT	NT	NT	NT	NT	NT
Benzo(b)fluoranthene	11	0.52	NT	NT	NT	NT	NT	NT
Benzo(k)fluoranthene	110	0.21	NT	NT	NT	NT	NT	NT
Chrysene	110	0.44	NT	NT	NT	NT	NT	NT
Anthracene	1000	0.15	NT	NT	NT	NT	NT	NT
Benzo(ghi)perylene	1000	0.28	NT	NT	NT	NT	NT	NT
Fluorene	1000	0.091 J	NT	NT	NT	NT	NT	NT
Phenanthrene	1000	0.46	NT	NT	NT	NT	NT	NT
Dibenzo(a,h)anthracene	1.1	0.071 J	NT	NT	NT	NT	NT	NT
Indeno(1,2,3-cd)pyrene	11	0.32	NT	NT	NT	NT	NT	NT
Pyrene	1000	0.85	NT	NT	NT	NT	NT	NT
Carbazole	NV	0.064 J	NT	NT	NT	NT	NT	NT

LOCATION SAMPLING DATE DEPTH (FEET)	NYS Restricted Industrial	MW-7-7-9-7915 7/15/2015 7 - 9 mg/kg	MW-7-19-21-7915 7/15/2015 19 - 21 mg/kg	FIELD DUPLICATE (MW-7-19-21-7915) 7/15/2015 19 - 21 mg/kg	MW-7-21-23-7915 7/15/2015 21 - 23 mg/kg	MW-7-29-31-7915 7/15/2015 29 - 31 mg/kg	MW-7-41-43-7915 7/15/2015 41 - 43 mg/kg	MW-7-51-53-7915 7/15/2015 51 - 53 mg/kg
<b>Volatle Organic Compounds - EPA Method 8260 TCL &amp; STARS (mg/kg)</b>								
Benzene	89	ND	0.00059 J	0.0048 J	ND	ND	ND	ND
Vinyl chloride	27	ND	0.095	0.75	0.091	ND	ND	0.00049 J
1,1-Dichloroethene	1000	ND	0.0005 J	0.0047 J	ND	ND	ND	ND
trans-1,2-Dichloroethene	1000	ND	0.0022	0.015	ND	ND	ND	ND
cis-1,2-Dichloroethene	1000	ND	0.26	1.6	0.00043 J	ND	ND	0.00033 J
Acetone	1000	0.086	ND	ND	ND	ND	ND	ND
Carbon disulfide	NV	ND	0.0027 J	0.029 J	ND	ND	ND	ND
2-Butanone	1000	0.019 J	ND	ND	ND	ND	ND	ND
n-Butylbenzene	1000	0.056	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	1000	0.076	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	1000	0.0028 J	ND	ND	ND	ND	ND	ND
Isopropylbenzene	NV	0.021	ND	ND	ND	ND	ND	ND
n-Propylbenzene	1000	0.014	ND	ND	ND	ND	ND	ND
Methyl cyclohexane	NV	0.0045 J	ND	ND	ND	ND	ND	ND
<b>Semi-Volatile Organic Compounds - EPA Method 8270 (mg/kg)</b>								
Acenaphthene	1000	0.048	NT	NT	NT	NT	NT	NT
Fluoranthene	1000	0.32	NT	NT	NT	NT	NT	NT
Naphthalene	1000	0.24	NT	NT	NT	NT	NT	NT
Benzo(a)anthracene	11	0.17	NT	NT	NT	NT	NT	NT
Benzo(a)pyrene	1.1	0.19	NT	NT	NT	NT	NT	NT
Benzo(b)fluoranthene	11	0.16	NT	NT	NT	NT	NT	NT
Benzo(k)fluoranthene	110	0.16	NT	NT	NT	NT	NT	NT
Chrysene	110	0.17	NT	NT	NT	NT	NT	NT
Acenaphthylene	1000	0.19	NT	NT	NT	NT	NT	NT
Anthracene	1000	0.078	NT	NT	NT	NT	NT	NT
Benzo(ghi)perylene	1000	0.11	NT	NT	NT	NT	NT	NT
Fluorene	1000	0.08	NT	NT	NT	NT	NT	NT
Phenanthrene	1000	0.29	NT	NT	NT	NT	NT	NT
Dibenzo(a,h)anthracene	1.1	0.14	NT	NT	NT	NT	NT	NT
Indeno(1,2,3-cd)pyrene	11	0.1	NT	NT	NT	NT	NT	NT
Pyrene	1000	0.29	NT	NT	NT	NT	NT	NT
Dibenzofuran	1000	0.23	NT	NT	NT	NT	NT	NT
2-Methylnaphthalene	NV	0.22	NT	NT	NT	NT	NT	NT
Carbazole	NV	0.23	NT	NT	NT	NT	NT	NT

LOCATION SAMPLING DATE DEPTH (FEET)	NYS Restricted Industrial	MW-6-5-7_071315 7/13/2015 5 - 7 mg/kg	MW-6-13-15_071315 7/13/2015 13 - 15 mg/kg	MW-6-17-19_071315 7/13/2015 17 - 19 mg/kg	MW-6-23-25_071315 7/13/2015 23 - 25 mg/kg	MW-6-31-33_071315 7/13/2015 31 - 33 mg/kg	MW-6-35-37_071315 7/13/2015 35 - 37 mg/kg	MW-6-49-51_071315 7/13/2015 49 - 51 mg/kg	MW-6-53-55_071315 7/13/2015 53 - 55 mg/kg
<b>Volatle Organic Compounds - EPA Method 8260 TCL &amp; STARS (mg/kg)</b>									
Tetrachloroethene	300	0.019	ND	0.083	ND	ND	ND	ND	ND
Benzene	89	ND	ND	0.0028 J	ND	ND	ND	ND	ND
Vinyl chloride	27	ND	0.059	0.43	0.0007 J	0.0003 J	ND	ND	0.00031 J
1,1-Dichloroethene	1000	ND	ND	0.0047 J	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	1000	ND	0.023	0.018	ND	ND	ND	ND	ND
Trichloroethene	400	0.00098 J	ND	0.048	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	1000	ND	0.082	1.5	0.0017	0.00048 J	ND	ND	0.0003 J
Acetone	1000	ND	0.038	ND	ND	ND	ND	ND	ND
2-Butanone	1000	ND	0.0059 J	ND	ND	ND	ND	ND	ND
<b>Semi-Volatile Organic Compounds - EPA Method 8270 (mg/kg)</b>									
Acenaphthene	1000	0.058 J	NT						
Fluoranthene	1000	0.51	NT						
Naphthalene	1000	0.22 J	NT						
Benzo(a)anthracene	11	0.26	NT						
Benzo(a)pyrene	1.1	0.32	NT						
Benzo(b)fluoranthene	11	0.25	NT						
Benzo(k)fluoranthene	110	0.24	NT						
Chrysene	110	0.25	NT						
Acenaphthylene	1000	0.051 J	NT						
Anthracene	1000	0.13 J	NT						
Benzo(ghi)perylene	1000	0.2	NT						
Fluorene	1000	0.083 J	NT						
Phenanthrene	1000	0.42	NT						
Dibenzo(a,h)anthracene	1.1	0.052 J	NT						
Indeno(1,2,3-cd)pyrene	11	0.17 J	NT						
Pyrene	1000	0.44	NT						
Carbazole	NV	0.068 J	NT						

LOCATION SAMPLING DATE DEPTH (FEET)	NYS Restricted Industrial	MW-4-4-6-7715 7/7/2015 4 - 6 mg/kg	MW-4-8-10-7715 7/7/2015 8 - 10 mg/kg	MW-4-14-16-7715 7/7/2015 14 - 16 mg/kg	MW-4-18-20-7715 7/7/2015 18 - 20 mg/kg	MW-4-22-24-7715 7/7/2015 22 - 24 mg/kg
<b>Volatle Organic Compounds - EPA Method 8260 TCL &amp; STARS (mg/kg)</b>						
Tetrachloroethene	300	0.079	0.0013 J	ND	0.0027	ND
Benzene	89	ND	ND	0.0016	ND	ND
Vinyl chloride	27	ND	ND	ND	0.0021 J	ND
Trichloroethene	400	0.002	ND	0.00069 J	ND	ND
cis-1,2-Dichloroethene	1000	0.0017	ND	0.0006 J	ND	ND
Acetone	1000	ND	0.026	0.018	0.0028 J	0.0013 J
2-Butanone	1000	ND	0.0056 J	ND	ND	ND
Naphthalene	1000	ND	0.0067 J	ND	ND	ND
<b>Semi-Volatile Organic Compounds - EPA Method 8270 (mg/kg)</b>						
Acenaphthene	1000	ND	0.95	NT	NT	NT
Fluoranthene	1000	ND	41 E	NT	NT	NT
Naphthalene	1000	ND	0.82	NT	NT	NT
Benzo(a)anthracene	11	ND	<b>20 E</b>	NT	NT	NT
Benzo(a)pyrene	1.1	ND	<b>17</b>	NT	NT	NT
Benzo(b)fluoranthene	11	ND	<b>21 E</b>	NT	NT	NT
Benzo(k)fluoranthene	110	ND	7.1	NT	NT	NT
Chrysene	110	ND	21 E	NT	NT	NT
Acenaphthylene	1000	ND	2.3	NT	NT	NT
Anthracene	1000	ND	6.3	NT	NT	NT
Benzo(ghi)perylene	1000	ND	7.7	NT	NT	NT
Fluorene	1000	ND	2	NT	NT	NT
Phenanthrene	1000	ND	20 E	NT	NT	NT
Dibenzo(a,h)anthracene	1.1	ND	<b>2.4</b>	NT	NT	NT
Indeno(1,2,3-cd)pyrene	11	ND	8.8	NT	NT	NT
Pyrene	1000	ND	36 E	NT	NT	NT
Dibenzofuran	1000	ND	0.71	NT	NT	NT
2-Methylnaphthalene	NV	ND	0.25 J	NT	NT	NT
Carbazole	NV	ND	0.74	NT	NT	NT

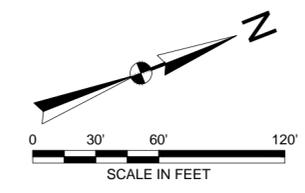


**LEGEND:**

- APPROXIMATE SITE BOUNDARY
- BUILDING LOCATION
- MW-4 MONITORING WELL LOCATION
- BOLD** EXCEED NYSDEC PART 375 SOIL CLEANUP OBJECTIVES FOR INDUSTRIAL USE
- mg/kg MILLIGRAMS PER KILOGRAM
- ND NON DETECT
- NT NOT TESTED
- J INDICATES AN ESTIMATED VALUE.
- E VALUE EXCEEDS CALIBRATION RANGE

**NOTES:**

- BASE MAP DEVELOPED FROM A GOOGLE PROFESSIONAL ELECTRONIC IMAGE FILE. DIGITAL AERIAL ORTHOPHOTOGRAPHY WAS COLLECTED ON AUGUST 5, 2015.
- THE LOCATION OF THE MONITORING WELLS WERE DETERMINED BY GPS FROM EXISTING TOPOGRAPHIC FEATURES. THESE DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.



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140 CORTLAND AVENUE SYRACUSE, NEW YORK 13202	
SOIL ANALYTICAL RESULTS PLAN	
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: COYNE TEXTILE SERVICES
PROJ MGR: TB DESIGNED BY: TB DATE: AUGUST 2015	REVIEWED BY: BK CHECKED BY: BK SCALE: 1" = 60' REVISION NO.
FIGURE <b>5</b> SHEET NO.	

©2015 - GZA GeoEnvironmental, Inc. GZA-J:\56000's\21.0056730.40\Figures\CAD\56730.40.001.dwg [FIG-6] August 14, 2015 - 10:19am edward.morris

Sample ID	NYS Class GA	MW-5A	Field Duplicate 002	MW-5B	MW-5C
Sampling Date		7/20/2015	7/20/2015	7/21/2015	7/21/2015
Units	µg/l	µg/l	µg/l	µg/l	µg/l
<b>Volatile Organic Compounds - EPA Method 8260</b>					
Tetrachloroethene	5	<b>2900 E</b>	<b>3100 E</b>	<b>5.7</b>	2.7
Benzene	1	<b>4.4 J</b>	<b>4.3 J</b>	ND	ND
Vinyl chloride	2	<b>110</b>	<b>110</b>	1.1	0.5 J
1,1-Dichloroethene	5	<b>6.5</b>	ND	ND	ND
trans-1,2-Dichloroethene	5	<b>12 J</b>	<b>14 J</b>	ND	ND
Trichloroethene	5	<b>1900</b>	<b>2000</b>	2.2	1.6
cis-1,2-Dichloroethene	5	<b>2400 E</b>	<b>2400 E</b>	<b>6.1</b>	4.2
Acetone	50	ND	ND	4.8 J	ND

Sample ID	NYS Class GA	MW-7A	MW-7B	MW-7C
Sampling Date		7/22/2015	7/22/2015	7/22/2015
Units	µg/l	µg/l	µg/l	µg/l
<b>Volatile Organic Compounds - EPA Method 8260</b>				
Chloroform	7	ND	2.5	0.83 J
Tetrachloroethene	5	ND	ND	ND
Benzene	1	0.74 J	0.2 J	ND
Vinyl chloride	2	<b>500</b>	<b>210</b>	0.87 J
1,1-Dichloroethene	5	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	1.1 J	ND
Trichloroethene	5	ND	ND	ND
cis-1,2-Dichloroethene	5	<b>460</b>	<b>180</b>	1.4 J
Acetone	50	14 J	16	2.3 J
Carbon disulfide	60	ND	6.4	1 J
2-Butanone	50	ND	1.9 J	ND

Sample ID	NYS Class GA	MW-6A	MW-6B	MW-6C
Sampling Date		7/21/2015	7/23/2015	7/23/2015
Units	µg/l	µg/l	µg/l	µg/l
<b>Volatile Organic Compounds - EPA Method 8260</b>				
Tetrachloroethene	5	<b>34 J</b>	<b>27</b>	ND
Benzene	1	ND	ND	ND
Vinyl chloride	2	<b>2000</b>	<b>3200</b>	ND
1,1-Dichloroethene	5	ND	<b>15 J</b>	ND
trans-1,2-Dichloroethene	5	<b>230 J</b>	<b>150</b>	ND
Trichloroethene	5	<b>260</b>	<b>290</b>	ND
cis-1,2-Dichloroethene	5	<b>5300</b>	<b>5600</b>	ND
Acetone	50	ND	ND	ND

Sample ID	NYS Class GA	MW-4
Sampling Date		7/20/2015
Units	µg/l	µg/l
<b>Volatile Organic Compounds - EPA Method 8260</b>		
Benzene	1	0.92
Vinyl Chloride	2	<b>3.3</b>
cis-1,2-Dichloroethene	5	3.7
Acetone	50	1.6 J

**LEGEND:**

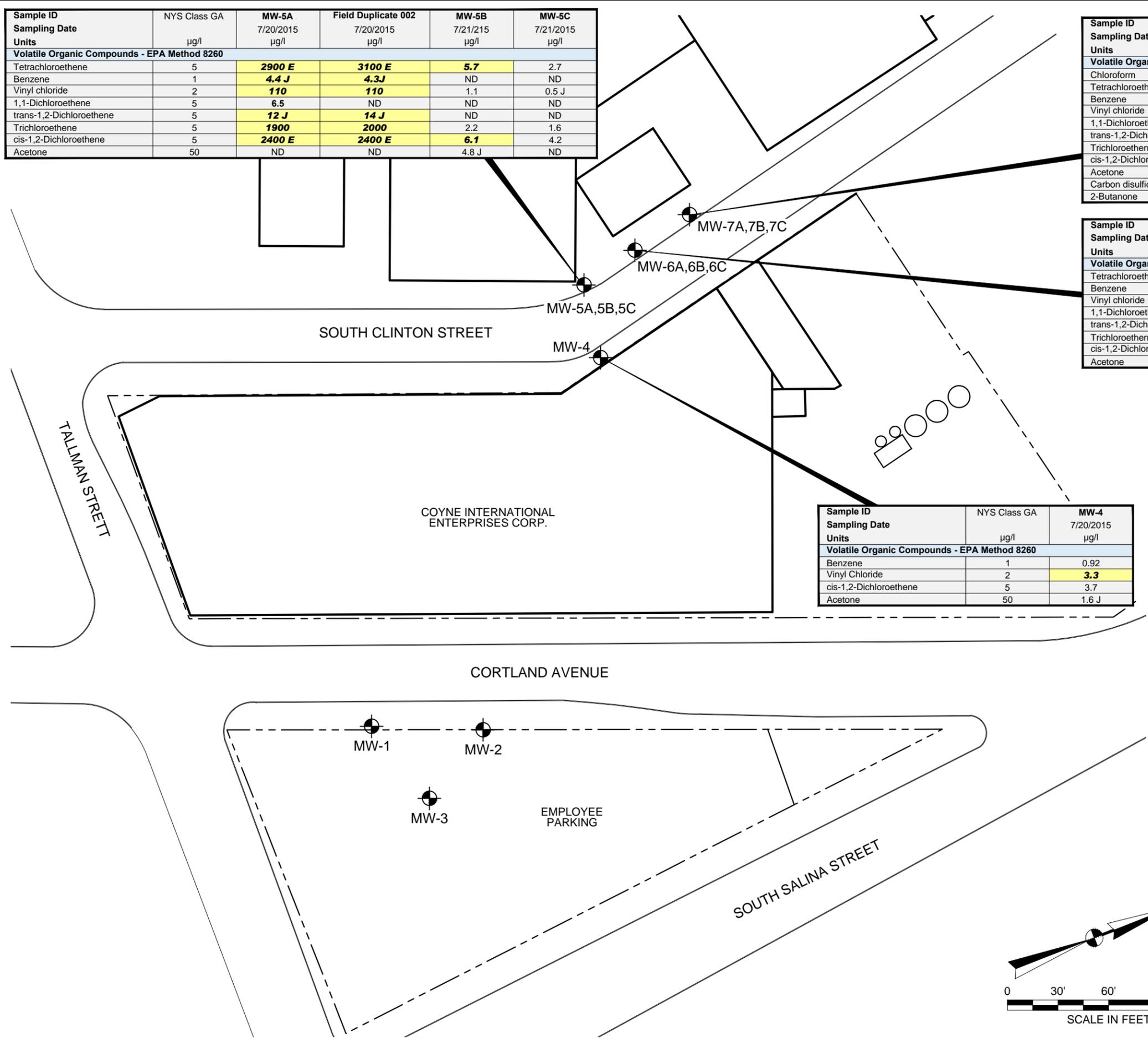
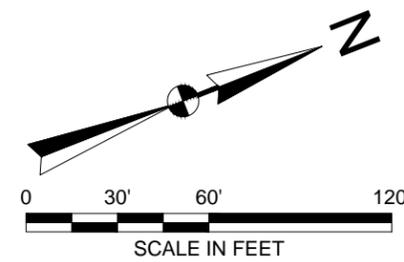
- APPROXIMATE SITE BOUNDARY
- BUILDING LOCATION
- MW-4 MONITORING WELL LOCATION
- BOLD** EXCEED NYSDEC TOGS 1.1.1 WATER QUALITY STANDARDS AND GUIDANCE VALUES
- ug/l MICROGRAMS PER LITER
- ND NON DETECT
- J INDICATES AN ESTIMATED VALUE.
- E VALUE EXCEEDS CALIBRATION RANGE

**NOTES:**

- BASE MAP DEVELOPED FROM A GOOGLE PROFESSIONAL ELECTRONIC IMAGE FILE. DIGITAL AERIAL ORTHOPHOTOGRAPHY WAS COLLECTED ON AUGUST 5, 2015.
- THE LOCATION OF THE MONITORING WELLS WERE DETERMINED BY GPS FROM EXISTING TOPOGRAPHIC FEATURES. THESE DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.

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140 CORTLAND AVENUE SYRACUSE, NEW YORK 13202			
GROUNDWATER ANALYTICAL RESULTS PLAN			
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: COYNE TEXTILE SERVICES	
PROJ MGR: TB	REVIEWED BY: TB	CHECKED BY: BK	FIGURE
DESIGNED BY: TB	DRAWN BY: EM	SCALE: 1" = 60'	<b>6</b>
DATE: AUGUST 2015	PROJECT NO. 21.0056730.40	REVISION NO.	



**APPENDIX A**  
**LIMITATIONS**



## **GEOHYDROLOGICAL LIMITATIONS**

### Use of Report

1. GZA GeoEnvironmental, Inc. (GZA) prepared this report on behalf of, and for the exclusive use of our Client for the stated purpose(s) and location(s) identified in the Proposal for Services and/or Report. Use of this report, in whole or in part, at other locations, or for other purposes, may lead to inappropriate conclusions; and we do not accept any responsibility for the consequences of such use(s). Further, reliance by any party not expressly identified in the agreement, for any use, without our prior written permission, shall be at that party's sole risk, and without any liability to GZA.

### Standard of Care

2. GZA's findings and conclusions are based on the work conducted as part of the Scope of Services set forth in the Proposal for Services and/or Report and reflect our professional judgment. These findings and conclusions must be considered not as scientific or engineering certainties, but rather as our professional opinions concerning the limited data gathered during the course of our work. Conditions other than described in this report may be found at the subject location(s).
3. GZA's services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property. No warranty, expressed or implied, is made. Specifically, GZA does not and cannot represent that the Site contains no hazardous material, oil, or other latent condition beyond that observed by GZA during its study. Additionally, GZA makes no warranty that any response action or recommended action will achieve all of its objectives or that the findings of this study will be upheld by a local, state or federal agency.
4. In conducting our work, GZA relied upon certain information made available by public agencies, Client and/or others. GZA did not attempt to independently verify the accuracy or completeness of that information. Inconsistencies in this information which we have noted, if any, are discussed in the Report.

### Subsurface Conditions

5. The generalized soil profile(s) provided in our Report are based on widely-spaced subsurface explorations and are intended only to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and were based on our assessment of subsurface conditions. The composition of strata, and the transitions between strata, may be more variable and more complex than indicated. For more specific information on soil conditions at a specific location refer to the exploration logs.

6. Water level readings have been made in test holes (as described in the Report) and monitoring wells at the specified times and under the stated conditions. These data have been reviewed and interpretations have been made in this report. Fluctuations in the level of the groundwater however occur due to temporal or spatial variations in areal recharge rates, soil heterogeneities, the presence of subsurface utilities, and/or natural or artificially induced perturbations. The observed water table may be other than indicated in the Report.

#### Compliance with Codes and Regulations

7. We used reasonable care in identifying and interpreting applicable codes and regulations necessary to execute our scope of work. These codes and regulations are subject to various, and possibly contradictory, interpretations. Interpretations and compliance with codes and regulations by other parties is beyond our control.

#### Screening and Analytical Testing

8. GZA collected environmental samples at the locations identified in the Report. These samples were analyzed for the specific parameters identified in the report. Additional constituents, for which analyses were not conducted, may be present in soil, groundwater, surface water, sediment and/or air. Future Site activities and uses may result in a requirement for additional testing.
9. Our interpretation of field screening and laboratory data is presented in the Report. Unless otherwise noted, we relied upon the laboratory's QA/QC program to validate these data.
10. Variations in the types and concentrations of contaminants observed at a given location or time may occur due to release mechanisms, disposal practices, changes in flow paths, and/or the influence of various physical, chemical, biological or radiological processes. Subsequently observed concentrations may be other than indicated in the Report.

#### Interpretation of Data

11. Our opinions are based on available information as described in the Report, and on our professional judgment. Additional observations made over time, and/or space, may not support the opinions provided in the Report.

#### Additional Information

12. In the event that the Client or others authorized to use this report obtain information on environmental or hazardous waste issues at the Site not contained in this report, such information shall be brought to GZA's attention forthwith. GZA will evaluate such information and, on the basis of this evaluation, may modify the conclusions stated in this report.

#### Additional Services

13. GZA recommends that we be retained to provide services during any future investigations, design, implementation activities, construction, and/or property development/ redevelopment at the Site. This will allow us the opportunity to: i) observe conditions and compliance with our design concepts and opinions; ii) allow for changes in the event that conditions are other than anticipated; iii) provide modifications to our design; and iv) assess the consequences of changes in technologies and/or regulations.

**APPENDIX B**

**MONITORING WELL BORING LOGS**







**TEST BORING LOG**



**GZA**  
**GeoEnvironmental, Inc.**  
*Engineers and Scientists*

**Coyne Textile**  
**Off-Site MW Invest**  
**Syracuse, New York**

**EXPLORATION NO.: MW-6**  
**SHEET: 1 of 2**  
**PROJECT NO: 21.0056730.40**  
**REVIEWED BY:**

**Logged By:** P. Finnerty  
**Drilling Co.:** Nothnagle Drilling  
**Foreman:** N. Short

**Type of Rig:** Truck  
**Rig Model:** CME 75  
**Drilling Method:**  
HSA

**Boring Location:** See Plan  
**Ground Surface Elev. (ft.):**  
**Final Boring Depth (ft.):** 55  
**Date Start - Finish:** 7/13/2015 - 7/13/2015

**H. Datum:**  
**V. Datum:**

**Hammer Type:** Automatic Hammer  
**Hammer Weight (lb.):** 140  
**Hammer Fall (in.):** 30  
**Auger or Casing O.D./I.D Dia (in.):** 6.25

**Sampler Type:** SS  
**Sampler O.D. (in.):** 2.0  
**Sampler Length (in.):** 24  
**Rock Core Size:**

**Groundwater Depth (ft.)**

Date	Time	Water Depth	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample					SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Depth (ft.)	Stratum Description	Elev. (ft.)
		No.	Depth (ft.)	Pen. (in)	Rec. (in)	Blows (per 6 in.)							
5		S1	5-7	24	17	1 3 3 1	6	Dark brown-gray, TOPSOIL, little fine Sand, trace cinder and fine to medium Gravel. Transition into light brown-gray, SILT, slightly moist, large obstruction (LS Cobble), iron/rusted slab, brick.	1				
		S2	7-9	24	4	3 2 1 1	3	S1: Loose, brown to black, fine to medium SAND and Silt, little fine Gravel, slag and cinders (urban), moist, subangular. S2: Very loose, brown to gray, fine to medium SAND and Silt, little fine Gravel, slag and cinders, moist, subangular.	HS	0.0		FILL	
10		S3	9-11	24	20	1 2 2 3	4	S3: Soft, brown-gray, SILT & CLAY, seam of light tan-gray Clay, wet at 10.8' bgs.	HS	0.2			
		S4	11-11.5	24	21	1 1 1 1	2	S4: 11.0'-11.5': Very soft, light tan-gray, CLAY, wet. Shells at 11.5' bgs.	HS	0.3			
		S5	13-14	24	20	1 1 5 6	6	11.5'-13.0': Very soft, brown-gray, Silty CLAY, wood fragments, wet.	HS	1.1			
15		S6	15-17	24	9	3 3 2 2	5	S5: 13.0'-14.0': Soft, brown-gray, Silty CLAY, wet. 14.0'-15.0': Loose, brown-gray, fine to coarse SAND and fine to medium Gravel, subangular to subrounded, wet.	HS	1.0			
		S7	17-19	24	6	11 6 3 1	9	S6: Loose, brown-gray, fine to coarse SAND and fine to medium Gravel, some Silt, wood fragments, wet, alternating seams, subangular.	HS	1.6			MARL
20		S8	19-21	24	8	1 3 3 4	6	S7: Loose, brown-gray, fine to coarse SAND and fine Gravel, little Silt. S8: Loose, brown-gray, fine SAND, some Silt, wet.	HS	0.7			
		S9	21-22	24	17	2 2 1 1	3	S9: 21.0'-22.0': Loose, brown-gray, fine to medium SAND, some Silt, wet.	HS	0.4			
		S10	23-25	24	22	WOH WOH WOH WOH	0	22.0'-23.0': Soft, brown-gray, SILT, little Sand, wet, alternating layers.	HS	0.8			
25		S11	25-27	24	6	WOH WOH WOH	0	S10: Very soft, brown-gray, SILT & CLAY, wet, alternating layers. S11: Very soft, brown-gray, CLAY, wet.	HS	0.7			GLACIO-LACUSTRINE
		S12	27-29	24	20	WOH WOH WOH	0	S12: Very soft, brown-gray, CLAY, wet.	HS	0.5			
30		S13	29-31	24	20	WOH WOR	0	S13: Very soft, brown-gray, CLAY, wet.	HS				

**REMARKS**  
1 - Hand cleared to 6.0' bgs.

See Log Key for exploration of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

**Exploration No.:**  
**MW-6**

GZA TEMPLATE TEST BORING; 8/10/2015; 10:28:35 AM

**TEST BORING LOG**



**GZA**  
**GeoEnvironmental, Inc.**  
*Engineers and Scientists*

Coyne Textile  
Off-Site MW Invest  
Syracuse, New York

**EXPLORATION NO.:** MW-6  
**SHEET:** 2 of 2  
**PROJECT NO:** 21.0056730.40  
**REVIEWED BY:**

**Logged By:** P. Finnerty  
**Drilling Co.:** Nothnagle Drilling  
**Foreman:** N. Short

**Type of Rig:** Truck  
**Rig Model:** CME 75  
**Drilling Method:**  
HSA

**Boring Location:** See Plan  
**Ground Surface Elev. (ft.):**  
**Final Boring Depth (ft.):** 55  
**Date Start - Finish:** 7/13/2015 - 7/13/2015

**H. Datum:**  
**V. Datum:**

**Hammer Type:** Automatic Hammer  
**Hammer Weight (lb.):** 140  
**Hammer Fall (in.):** 30  
**Auger or Casing O.D./I.D Dia (in.):** 6.25

**Sampler Type:** SS  
**Sampler O.D. (in.):** 2.0  
**Sampler Length (in.):** 24  
**Rock Core Size:**

**Groundwater Depth (ft.)**

Date	Time	Water Depth	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample					SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Depth (ft.)	Stratum Description	Elev. (ft.)
		No.	Depth (ft.)	Pen. (in)	Rec. (in)	Blows (per 6 in.)							
35		S14	31-33	24	15	WOR	0	S14: Very soft, brown-gray, SILT & CLAY, wet, alternating layers.		0.4	GLACIO-LACUSTRINE		
35		S15	33-34	24	12	WOR	5	S15: 33.0'-34.0': Stiff, brown-gray, SILT & CLAY, wet, alternating layers. 34.0'-35.0': Loose, brown-gray, fine SAND, some Silt, wet.		0.6	GLACIO-LACUSTRINE		
35		S16	35-37	24	10	WOR	10	S16: Medium dense, dark brown-gray, fine to medium SAND, wet.		0.3	GLACIO-LACUSTRINE		
35		S17	37-39	24	10	WOH	8	S17: Loose, dark brown-gray, fine to medium SAND, wet.		0.3	GLACIO-LACUSTRINE		
40		S18	39-41	24	9	1 1	9	S18: Loose, dark, brown-gray, fine to medium SAND, wet.		0.3	GLACIO-LACUSTRINE		
45		S19	41-43	24	8	2 2	11	S19: Medium dense, dark brown-gray, fine to medium SAND, trace fine Gravel, subrounded, wet.		0.0	GLACIO-LACUSTRINE		
45		S20	43-45	24	1	4 4	8	S20: Loose, brown-gray, fine to medium SAND, wet.	2		GLACIO-FLUVIAL		
45		S21	45-47	24	8	6 7	11	S21: Medium dense, brown-gray, fine to medium SAND, wet.		1.2	GLACIO-FLUVIAL		
50		S22	47-49	24	10	4 4	12	S22: Medium dense, brown-gray, fine to medium SAND, wet.		1.2	GLACIO-FLUVIAL		
50		S23	49-51	24	10	4 5	15	S23: Medium dense, brown-gray, fine to medium SAND, wet.		1.4	GLACIO-FLUVIAL		
50		S24	51-53	24	12	8 10	14	S24: Medium dense, brown-gray, fine to medium SAND, wet.		1.1	GLACIO-FLUVIAL		
55		S25	53-54.5	24	11	7 8	9	S25: Loose, brown-gray, fine to medium SAND, trace Silt, wet.		1.3	GLACIO-FLUVIAL		
55										55			
								End of exploration at 55 feet.					

**REMARKS** 2 - Split spoon captured only enough soil for 1/2 VOC Jar.

See Log Key for exploration of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

**Exploration No.:**  
**MW-6**

**TEST BORING LOG**



**GZA**  
**GeoEnvironmental, Inc.**  
*Engineers and Scientists*

**Coyne Textile**  
**Off-Site MW Invest**  
**Syracuse, New York**

**EXPLORATION NO.: MW-7**  
**SHEET: 1 of 2**  
**PROJECT NO: 21.0056730.40**  
**REVIEWED BY:**

**Logged By:** P. Finnerty  
**Drilling Co.:** Nothnagle Drilling  
**Foreman:** N. Short

**Type of Rig:** Truck  
**Rig Model:** CME 75  
**Drilling Method:**  
HSA

**Boring Location:** See Plan  
**Ground Surface Elev. (ft.):**  
**Final Boring Depth (ft.):** 55  
**Date Start - Finish:** 7/15/2015 - 7/15/2015

**H. Datum:**  
**V. Datum:**

**Hammer Type:** Automatic Hammer  
**Hammer Weight (lb.):** 140  
**Hammer Fall (in.):** 30  
**Auger or Casing O.D./I.D Dia (in.):** 6.25

**Sampler Type:** SS  
**Sampler O.D. (in.):** 2.0  
**Sampler Length (in.):** 24  
**Rock Core Size:**

**Groundwater Depth (ft.)**

Date	Time	Water Depth	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample					SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Depth (ft.)	Stratum Description	Elev. (ft.)
		No.	Depth (ft.)	Pen. (in)	Rec. (in)	Blows (per 6 in.)							
5		S1	5-7	24	8	1 1 1 1	2	Brown-gray, SILT, some fine Sand, little Gravel, trace Cobbles - subrounded and angular; concrete slabs and other urban fill; very large slab of asphalt removed.	1				
		S2	7-9	24	14	1 1 1 2	2	S1: Soft, brown to black, SILT, trace fine Sand, trace Gravel, slag and cinders (urban fill), subangular to subrounded.		HS		FILL	
		S3	9-11	24	1	1 1 2 3	3	S2: Soft, brown to black, SILT, trace Gravel, slag and cinders (urban fill), subangular to subrounded, seam of rubber-like material and wood fragments.		HS			
		S4	11-13	24	20	1 1 1 1	2	S3: Soft, brown, SILT, trace Gravel, subrounded, wet.		HS	11		
		S5	13-15	24	20	1 1 1 1	2	S4: Soft, gray-brown, SILT, trace Gravel, subangular, wet, wood fragments.		HS		0.6	
		S6	15-17	24	15	WOH		S5: Soft, gray-brown, SILT & CLAY, alternating layers, wet, wood fragments.		HS		0.8	
		S7	17-18	24	8	WOH 2 3 4	5	S6: Very soft, gray-brown, SILT & CLAY, alternating seams, seam of Gravel and wood fragments, wet, subrounded.		HS		1.1	
		S8	19-21	24	14	9 10 6 2	16	S7: 17.0'-18.0': Medium stiff, brown-gray, SILT & CLAY, alternating seams, wet.		HS		0.9	MARL
		S9	21-23	24	18	WOR WOR	0	S8: 18.0'-19.0': Loose, dark gray, medium to coarse SAND and Gravel, subrounded to subangular, wet.		HS		3.2	
		S10	23-25	24	6	WOR WOR	0	S9: Dense, dary gray, fine to coarse SAND and Gravel, subrounded to subangular, seam of Silt & Clay at 21.0' bgs, slight solvent-like odor. Field duplicate.		HS	23	1.6	
		S11	25-27	24	22	WOR WOH	2	S10: Very soft, brown-gray, CLAY & SILT, wet, alternating seams.		HS		0.9	
		S12	27-29	24	22	WOR WOH	2	S11: Very soft, brown-gray, CLAY, wet.		HS		0.7	GLACIO-LACUSTRINE
		S13	29-	24	13	1 1 1 1 WOR WOR	0	S12: Very soft, brown-gray, CLAY & SILT, wet, alternating seams.		HS		0.7	
30								S13: 29.0'-30.5': Very soft, brown-gray, CLAY & SILT,		HS			

**REMARKS**  
1 - Hand cleared 0'-6.0' bgs.

See Log Key for exploration of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

**Exploration No.:**  
**MW-7**



**APPENDIX C**

**MONITORING WELL DEVELOPMENT FORMS**





















**APPENDIX D**

**MONITORING WELL SAMPLING FORMS**























**APPENDIX E**

**ANALYTICAL TEST RESULTS**



## ANALYTICAL REPORT

Lab Number:	L1516771
Client:	The Palmerton Group 535 Washington Street 11th Floor Buffalo, NY 14203
ATTN:	Thomas Bohlen
Phone:	(716) 844-7050
Project Name:	COYNE TEXTILE SERVICES-MW INST
Project Number:	21.0056730.40
Report Date:	07/21/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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).

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516771  
**Report Date:** 07/21/15

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1516771-01	MW-4-72015	WATER	140 CORTLAND AVE., SYRACUSE, NY 13202	07/20/15 14:01	07/20/15
L1516771-02	MW-5A-72015	WATER	140 CORTLAND AVE., SYRACUSE, NY 13202	07/20/15 15:55	07/20/15
L1516771-03	TRIP BLANK-006-72015	WATER	140 CORTLAND AVE., SYRACUSE, NY 13202	07/20/15 00:00	07/20/15
L1516771-04	FIELD DUPLICATE-002-72015	WATER	140 CORTLAND AVE., SYRACUSE, NY 13202	07/20/15 00:00	07/20/15

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516771  
**Report Date:** 07/21/15

### 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 all of the requirements of NELAC, for all NELAC accredited parameters. 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:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516771  
**Report Date:** 07/21/15

### Case Narrative (continued)

#### Report Submission

This report contains the results of the Volatile Organics analysis. The results of all other analyses will be issued under separate cover.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

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:



Michelle M. Morris

Title: Technical Director/Representative

Date: 07/21/15

# ORGANICS

# VOLATILES

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516771  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516771-01  
**Client ID:** MW-4-72015  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, NY 13202  
**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 07/21/15 13:05  
**Analyst:** PD

**Date Collected:** 07/20/15 14:01  
**Date Received:** 07/20/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	0.92		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	3.3		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516771  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516771-01  
**Client ID:** MW-4-72015  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, NY 13202

**Date Collected:** 07/20/15 14:01  
**Date Received:** 07/20/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	3.7		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.6	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	79		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	106		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516771  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516771-02 D2  
 Client ID: MW-5A-72015  
 Sample Location: 140 CORTLAND AVE., SYRACUSE, NY 13202  
 Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 07/21/15 14:29  
 Analyst: PD

Date Collected: 07/20/15 15:55  
 Date Received: 07/20/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	2700		ug/l	50	18.	100
cis-1,2-Dichloroethene	2200		ug/l	250	70.	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	80		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	105		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516771  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516771-02 D  
 Client ID: MW-5A-72015  
 Sample Location: 140 CORTLAND AVE., SYRACUSE, NY 13202  
 Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 07/21/15 13:33  
 Analyst: PD

Date Collected: 07/20/15 15:55  
 Date Received: 07/20/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	ND		ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.3	10
Dibromochloromethane	ND		ug/l	5.0	1.5	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	2900	E	ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
Bromoform	ND		ug/l	20	6.5	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	1.4	10
Benzene	4.4	J	ug/l	5.0	1.6	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	110		ug/l	10	0.70	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	6.5		ug/l	5.0	1.4	10
trans-1,2-Dichloroethene	12	J	ug/l	25	7.0	10
Trichloroethene	1900		ug/l	5.0	1.8	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10
1,3-Dichlorobenzene	ND		ug/l	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516771  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516771-02 D  
**Client ID:** MW-5A-72015  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, NY 13202

**Date Collected:** 07/20/15 15:55  
**Date Received:** 07/20/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/l	25	7.0	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
cis-1,2-Dichloroethene	2400	E	ug/l	25	7.0	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	ND		ug/l	50	15.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	19.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
n-Butylbenzene	ND		ug/l	25	7.0	10
sec-Butylbenzene	ND		ug/l	25	7.0	10
tert-Butylbenzene	ND		ug/l	25	7.0	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Isopropylbenzene	ND		ug/l	25	7.0	10
p-Isopropyltoluene	ND		ug/l	25	7.0	10
Naphthalene	ND		ug/l	25	7.0	10
n-Propylbenzene	ND		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
1,3,5-Trimethylbenzene	ND		ug/l	25	7.0	10
1,2,4-Trimethylbenzene	ND		ug/l	25	7.0	10
1,4-Dioxane	ND		ug/l	2500	410	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	81		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	107		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516771  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516771-03  
**Client ID:** TRIP BLANK-006-72015  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, NY 13202  
**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 07/21/15 12:37  
**Analyst:** PD

**Date Collected:** 07/20/15 00:00  
**Date Received:** 07/20/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516771  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516771-03  
**Client ID:** TRIP BLANK-006-72015  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, NY 13202

**Date Collected:** 07/20/15 00:00  
**Date Received:** 07/20/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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## Volatile Organics by GC/MS - Westborough Lab

Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	79		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	106		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516771  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516771-04 D2  
 Client ID: FIELD DUPLICATE-002-72015  
 Sample Location: 140 CORTLAND AVE., SYRACUSE, NY 13202  
 Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 07/21/15 14:57  
 Analyst: PD

Date Collected: 07/20/15 00:00  
 Date Received: 07/20/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	2700		ug/l	50	18.	100
cis-1,2-Dichloroethene	2200		ug/l	250	70.	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	81		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	107		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516771  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516771-04 D  
 Client ID: FIELD DUPLICATE-002-72015  
 Sample Location: 140 CORTLAND AVE., SYRACUSE, NY 13202  
 Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 07/21/15 14:01  
 Analyst: PD

Date Collected: 07/20/15 00:00  
 Date Received: 07/20/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	ND		ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.3	10
Dibromochloromethane	ND		ug/l	5.0	1.5	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	3100	E	ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
Bromoform	ND		ug/l	20	6.5	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	1.4	10
Benzene	4.3	J	ug/l	5.0	1.6	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	110		ug/l	10	0.70	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.4	10
trans-1,2-Dichloroethene	14	J	ug/l	25	7.0	10
Trichloroethene	2000		ug/l	5.0	1.8	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10
1,3-Dichlorobenzene	ND		ug/l	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516771  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516771-04 D  
**Client ID:** FIELD DUPLICATE-002-72015  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, NY 13202

**Date Collected:** 07/20/15 00:00  
**Date Received:** 07/20/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/l	25	7.0	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
cis-1,2-Dichloroethene	2400	E	ug/l	25	7.0	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	ND		ug/l	50	15.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	19.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
n-Butylbenzene	ND		ug/l	25	7.0	10
sec-Butylbenzene	ND		ug/l	25	7.0	10
tert-Butylbenzene	ND		ug/l	25	7.0	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Isopropylbenzene	ND		ug/l	25	7.0	10
p-Isopropyltoluene	ND		ug/l	25	7.0	10
Naphthalene	ND		ug/l	25	7.0	10
n-Propylbenzene	ND		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
1,3,5-Trimethylbenzene	ND		ug/l	25	7.0	10
1,2,4-Trimethylbenzene	ND		ug/l	25	7.0	10
1,4-Dioxane	ND		ug/l	2500	410	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	80		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	106		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516771  
**Report Date:** 07/21/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/21/15 12:05  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG804668-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
2-Chloroethylvinyl ether	ND		ug/l	10	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516771  
**Report Date:** 07/21/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/21/15 12:05  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG804668-3					
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylene (Total)	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene (total)	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Isopropyl Ether	ND		ug/l	2.0	0.65
tert-Butyl Alcohol	ND		ug/l	10	0.90
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Acrolein	ND		ug/l	5.0	0.63
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516771  
**Report Date:** 07/21/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/21/15 12:05  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG804668-3					
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Ethyl Acetate	ND		ug/l	10	0.70
Cyclohexane	ND		ug/l	10	0.27
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.5	0.70
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	0.28
1,4-Dioxane	ND		ug/l	250	41.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.70
1,4-Diethylbenzene	ND		ug/l	2.0	0.70
4-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Tetrahydrofuran	ND		ug/l	5.0	1.5
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Project Name: COYNE TEXTILE SERVICES-MW INST

Lab Number: L1516771

Project Number: 21.0056730.40

Report Date: 07/21/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 07/21/15 12:05  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG804668-3					
Iodomethane	ND		ug/l	5.0	5.0
Methyl cyclohexane	ND		ug/l	10	0.40

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	81		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	104		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516771

**Project Number:** 21.0056730.40

**Report Date:** 07/21/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG804668-1 WG804668-2								
Methylene chloride	112		107		70-130	5		20
1,1-Dichloroethane	94		93		70-130	1		20
Chloroform	99		96		70-130	3		20
2-Chloroethylvinyl ether	94		94		70-130	0		20
Carbon tetrachloride	112		107		63-132	5		20
1,2-Dichloropropane	94		92		70-130	2		20
Dibromochloromethane	111		110		63-130	1		20
1,1,2-Trichloroethane	98		96		70-130	2		20
Tetrachloroethene	108		106		70-130	2		20
Chlorobenzene	101		98		75-130	3		20
Trichlorofluoromethane	74		72		62-150	3		20
1,2-Dichloroethane	84		82		70-130	2		20
1,1,1-Trichloroethane	101		98		67-130	3		20
Bromodichloromethane	97		95		67-130	2		20
trans-1,3-Dichloropropene	93		91		70-130	2		20
cis-1,3-Dichloropropene	102		100		70-130	2		20
1,1-Dichloropropene	96		92		70-130	4		20
Bromoform	102		103		54-136	1		20
1,1,2,2-Tetrachloroethane	91		89		67-130	2		20
Benzene	99		97		70-130	2		20
Toluene	96		94		70-130	2		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516771

**Project Number:** 21.0056730.40

**Report Date:** 07/21/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG804668-1 WG804668-2								
Ethylbenzene	90		87		70-130	3		20
Chloromethane	67		64		64-130	5		20
Bromomethane	62		60		39-139	3		20
Vinyl chloride	65		62		55-140	5		20
Chloroethane	49	Q	47	Q	55-138	4		20
1,1-Dichloroethene	112		106		61-145	6		20
trans-1,2-Dichloroethene	110		107		70-130	3		20
Trichloroethene	104		102		70-130	2		20
1,2-Dichlorobenzene	94		92		70-130	2		20
1,3-Dichlorobenzene	94		92		70-130	2		20
1,4-Dichlorobenzene	92		91		70-130	1		20
Methyl tert butyl ether	111		109		63-130	2		20
p/m-Xylene	96		93		70-130	3		20
o-Xylene	96		92		70-130	4		20
cis-1,2-Dichloroethene	110		107		70-130	3		20
Dibromomethane	104		102		70-130	2		20
1,2,3-Trichloropropane	81		81		64-130	0		20
Acrylonitrile	94		98		70-130	4		20
Diisopropyl Ether	80		78		70-130	3		20
Tert-Butyl Alcohol	114		112		70-130	2		20
Styrene	93		90		70-130	3		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516771

**Project Number:** 21.0056730.40

**Report Date:** 07/21/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG804668-1 WG804668-2								
Dichlorodifluoromethane	92		89		36-147	3		20
Acetone	83		82		58-148	1		20
Carbon disulfide	95		92		51-130	3		20
2-Butanone	82		82		63-138	0		20
Vinyl acetate	66	Q	64	Q	70-130	3		20
4-Methyl-2-pentanone	90		94		59-130	4		20
2-Hexanone	69		68		57-130	1		20
Acrolein	96		98		40-160	2		20
Bromochloromethane	123		122		70-130	1		20
2,2-Dichloropropane	107		103		63-133	4		20
1,2-Dibromoethane	106		104		70-130	2		20
1,3-Dichloropropane	93		90		70-130	3		20
1,1,1,2-Tetrachloroethane	105		102		64-130	3		20
Bromobenzene	103		102		70-130	1		20
n-Butylbenzene	73		72		53-136	1		20
sec-Butylbenzene	80		79		70-130	1		20
tert-Butylbenzene	88		85		70-130	3		20
o-Chlorotoluene	84		82		70-130	2		20
p-Chlorotoluene	83		82		70-130	1		20
1,2-Dibromo-3-chloropropane	74		75		41-144	1		20
Hexachlorobutadiene	100		100		63-130	0		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516771

**Project Number:** 21.0056730.40

**Report Date:** 07/21/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG804668-1 WG804668-2								
Isopropylbenzene	88		86		70-130	2		20
p-Isopropyltoluene	87		86		70-130	1		20
Naphthalene	104		106		70-130	2		20
n-Propylbenzene	80		78		69-130	3		20
1,2,3-Trichlorobenzene	101		102		70-130	1		20
1,2,4-Trichlorobenzene	97		98		70-130	1		20
1,3,5-Trimethylbenzene	86		84		64-130	2		20
1,2,4-Trimethylbenzene	86		85		70-130	1		20
Methyl Acetate	84		82		70-130	2		20
Ethyl Acetate	76		76		70-130	0		20
Cyclohexane	90		86		70-130	5		20
Ethyl-Tert-Butyl-Ether	94		92		70-130	2		20
Tertiary-Amyl Methyl Ether	106		104		66-130	2		20
1,4-Dioxane	127		122		56-162	4		20
Freon-113	107		104		70-130	3		20
p-Diethylbenzene	86		84		70-130	2		20
p-Ethyltoluene	86		86		70-130	0		20
1,2,4,5-Tetramethylbenzene	89		87		70-130	2		20
Ethyl ether	64		63		59-134	2		20
trans-1,4-Dichloro-2-butene	71		70		70-130	1		20
Iodomethane	<b>224</b>	Q	<b>230</b>	Q	70-130	3		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516771

**Project Number:** 21.0056730.40

**Report Date:** 07/21/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG804668-1 WG804668-2								
Methyl cyclohexane	103		100		70-130	3		20

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
1,2-Dichloroethane-d4	78		79		70-130
Toluene-d8	97		96		70-130
4-Bromofluorobenzene	94		95		70-130
Dibromofluoromethane	105		106		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST**Lab Number:** L1516771**Project Number:** 21.0056730.40**Report Date:** 07/21/15**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

**Cooler Information Custody Seal****Cooler**

A Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1516771-01A	Vial HCl preserved	A	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1516771-01B	Vial HCl preserved	A	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1516771-02A	Vial HCl preserved	A	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1516771-02B	Vial HCl preserved	A	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1516771-02C	Vial HCl preserved	A	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1516771-03A	Vial HCl preserved	A	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1516771-03B	Vial HCl preserved	A	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1516771-04A	Vial HCl preserved	A	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1516771-04B	Vial HCl preserved	A	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1516771-04C	Vial HCl preserved	A	N/A	2.3	Y	Absent	NYTCL-8260(14)

\*Values in parentheses indicate holding time in days

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516771  
**Report Date:** 07/21/15

## 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.
LCS D	- 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.
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).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516771  
**Report Date:** 07/21/15

#### Data Qualifiers

- 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.

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516771  
**Report Date:** 07/21/15

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

## 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

Last revised December 16, 2014

**The following analytes are not included in our NELAP Scope of Accreditation:**

### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**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.

**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,Tl; **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,Tl,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.



**NEW YORK  
CHAIN OF  
CUSTODY**

Westborough, MA 01581  
8 Walkup Dr.  
TEL: 508-898-9220  
FAX: 508-898-9193

Mansfield, MA 02048  
320 Forbes Blvd  
TEL: 508-822-9300  
FAX: 508-822-3288

**Service Centers**

Mahwah, NJ 07430: 35 Whitney Rd, Suite 5  
Albany, NY 12205: 14 Walker Way  
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page

of

Date Rec'd  
in Lab

7/21/15

ALPHA Job #

L1516771

**Project Information**

Project Name: *Cayne Textile Services - Miu Installation*

Project Location: *140 Cortland Ave Syracuse, NY 13202*

Project # *21.0058730.40*

(Use Project name as Project #)

Project Manager: *Tom Bohlen*

ALPHAQuote #:

**Turn-Around Time**

Standard  Due Date: *7/21/15*

Rush (only if pre approved)  VOCs only # of Days: *1*

**Deliverables**

- ASP-A  ASP-B  
 EQUIS (1 File)  EQUIS (4 File)  
 Other

**Billing Information**

- Same as Client Info  
PO #

**Client Information**

Client: *GZA GeoEnvironmental*

Address: *535 Washington St 11th Floor  
Buffalo, NY 14203*

Phone: *716-685-2300*

Fax: *716-685-3629*

Email: *thomas.bohlen@gza.com*

**Regulatory Requirement**

- NY TOGS  NY Part 375  
 AWQ Standards  NY CP-51  
 NY Restricted Use  Other  
 NY Unrestricted Use  
 NYC Sewer Discharge

**Disposal Site Information**

Please identify below location of applicable disposal facilities.

**Disposal Facility:**

- NJ  NY  
 Other:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

**ANALYSIS**

VOC 8260	Disolved Gases RSC-175	Total Organic Carbon 906d	Total Fe & Mn - 602D	Alkalinity 310.1	Sulfate - 305	Nitrate - 357.2
----------	------------------------	---------------------------	----------------------	------------------	---------------	-----------------

**Sample Filtration**

- Done  
 Lab to do  
**Preservation**  
 Lab to do

(Please Specify below)

**Sample Specific Comments**

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS							Sample Specific Comments		
		Date	Time			VOC 8260	Disolved Gases RSC-175	Total Organic Carbon 906d	Total Fe & Mn - 602D	Alkalinity 310.1	Sulfate - 305	Nitrate - 357.2			
16771-01	MW-7-72015	7/20/15	1401	Aqueous	PCF	X									
-02	MW-5A-72015	7/20/15	1555	↓	PCF	X	X	X	X	X	X	X			
-03	Trip Blank-006-72015			↓		X									
-04	Field Duplicate-002-72015	7/20/15		Aqueous	PCF	X	X	X	X	X	X	X			

**Preservative Code:**

- A = None  
B = HCl  
C = HNO<sub>3</sub>  
D = H<sub>2</sub>SO<sub>4</sub>  
E = NaOH  
F = MeOH  
G = NaHSO<sub>4</sub>  
H = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
K/E = Zn Ac/NaOH  
O = Other

**Container Code**

- P = Plastic  
A = Amber Glass  
V = Vial  
G = Glass  
B = Bacteria Cup  
C = Cube  
O = Other  
E = Encore  
D = BOD Bottle

Westboro: Certification No: MA935

Mansfield: Certification No: MA015

**Container Type**

V V V P P P P

**Preservative**

B B D C O A A

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Relinquished By:	Date/Time	Received By:	Date/Time
<i>Patricia Finney</i>	<i>7/20/15 20:15</i>	<i>[Signature]</i>	<i>7/20/15 20:15</i>
<i>[Signature]</i>	<i>7/20/15 22:45</i>	<i>[Signature]</i>	<i>7/20/15 22:45</i>
<i>[Signature]</i>	<i>7/21/15 09:20</i>	<i>[Signature]</i>	<i>7/21/15 09:20</i>



## ANALYTICAL REPORT

Lab Number:	L1516772
Client:	The Palmerton Group 535 Washington Street 11th Floor Buffalo, NY 14203
ATTN:	Thomas Bohlen
Phone:	(716) 844-7050
Project Name:	COYNE TEXTILE SERVICES-MW INST
Project Number:	21.0056730.40
Report Date:	07/27/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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).

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1516772-01	MW-5A-72015	WATER	140 CORTLAND AVE., SYRACUSE, NY 13202	07/20/15 15:55	07/20/15
L1516772-02	FIELD DUPLICATE-002-72015	WATER	140 CORTLAND AVE., SYRACUSE, NY 13202	07/20/15 00:00	07/20/15

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

### 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 all of the requirements of NELAC, for all NELAC accredited parameters. 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.

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**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

### Case Narrative (continued)

#### Report Submission

The results of the Volatile Organics analysis will be issued under separate cover.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Sample Receipt

L1516772-01 and -02: The sample was received above the appropriate pH for the Metals analysis. The laboratory added additional HNO<sub>3</sub> to a pH <2.

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:

 Cristin Walker

Title: Technical Director/Representative

Date: 07/27/15

# ORGANICS

# VOLATILES

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

**SAMPLE RESULTS**

Lab ID: L1516772-01  
 Client ID: MW-5A-72015  
 Sample Location: 140 CORTLAND AVE., SYRACUSE, NY 13202  
 Matrix: Water  
 Analytical Method: 117,-  
 Analytical Date: 07/23/15 10:08  
 Analyst: MR

Date Collected: 07/20/15 15:55  
 Date Received: 07/20/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	619		ug/l	0.500	0.500	1	A
Ethene	32.3		ug/l	0.500	0.500	1	A
Ethane	82.6		ug/l	0.500	0.500	1	A

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

**SAMPLE RESULTS**

**Lab ID:** L1516772-02  
**Client ID:** FIELD DUPLICATE-002-72015  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, NY 13202  
**Matrix:** Water  
**Analytical Method:** 117,-  
**Analytical Date:** 07/23/15 10:23  
**Analyst:** MR

**Date Collected:** 07/20/15 00:00  
**Date Received:** 07/20/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	526		ug/l	0.500	0.500	1	A
Ethene	27.8		ug/l	0.500	0.500	1	A
Ethane	69.8		ug/l	0.500	0.500	1	A

**Project Name:** COYNE TEXTILE SERVICES-MW INST**Lab Number:** L1516772**Project Number:** 21.0056730.40**Report Date:** 07/27/15**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 117,-

Analytical Date: 07/23/15 09:12

Analyst: MR

<b>Parameter</b>	<b>Result</b>	<b>Qualifier</b>	<b>Units</b>	<b>RL</b>	<b>MDL</b>	
Dissolved Gases by GC - Mansfield Lab for sample(s): 01-02 Batch: WG805357-4						
Methane	ND		ug/l	0.500	0.500	A
Ethene	ND		ug/l	0.500	0.500	A
Ethane	ND		ug/l	0.500	0.500	A

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Project Number:** 21.0056730.40

**Lab Number:** L1516772

**Report Date:** 07/27/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>	<b>Column</b>
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01-02 Batch: WG805357-1									
Methane	85		-		80-120	-		25	A
Ethene	91		-		80-120	-		25	A
Ethane	90		-		80-120	-		25	A

### Matrix Spike Analysis Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>	<i>Column</i>
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG805357-6 WG805357-7 QC Sample: L1516897-02 Client ID: MS Sample													
Methane	47.7	54.6	110	114		110	114		80-120	0		25	A
Ethene	ND	95.5	104	109		101	106		80-120	3		25	A
Ethane	1.51	102	112	108		108	104		80-120	4		25	A

## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Project Number:** 21.0056730.40

**Lab Number:** L1516772

**Report Date:** 07/27/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG805357-5 QC Sample: L1516897-03 Client ID: DUP Sample						
Methane	5700	5740	ug/l	1		25 A
Ethene	625	619	ug/l	1		25 A
Ethane	1080	1080	ug/l	0		25 A

## METALS

**Project Name:** COYNE TEXTILE SERVICES-MW INST**Lab Number:** L1516772**Project Number:** 21.0056730.40**Report Date:** 07/27/15**SAMPLE RESULTS**

Lab ID: L1516772-01

Date Collected: 07/20/15 15:55

Client ID: MW-5A-72015

Date Received: 07/20/15

Sample Location: 140 CORTLAND AVE., SYRACUSE, N

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Iron, Total	2.66		mg/l	0.0500	0.0120	1	07/21/15 11:35	07/22/15 16:49	EPA 3005A	1,6020A	KL
Manganese, Total	0.3569		mg/l	0.00100	0.00030	1	07/21/15 11:35	07/22/15 16:49	EPA 3005A	1,6020A	KL



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

**SAMPLE RESULTS**

Lab ID: L1516772-02  
 Client ID: FIELD DUPLICATE-002-72015  
 Sample Location: 140 CORTLAND AVE., SYRACUSE, N  
 Matrix: Water

Date Collected: 07/20/15 00:00  
 Date Received: 07/20/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Iron, Total	1.97		mg/l	0.0500	0.0120	1	07/21/15 11:35	07/22/15 16:53	EPA 3005A	1,6020A	KL
Manganese, Total	0.3637		mg/l	0.00100	0.00030	1	07/21/15 11:35	07/22/15 16:53	EPA 3005A	1,6020A	KL



Project Name: COYNE TEXTILE SERVICES-MW INST

Lab Number: L1516772

Project Number: 21.0056730.40

Report Date: 07/27/15

## Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG804488-1										
Iron, Total	ND		mg/l	0.0500	0.0120	1	07/21/15 11:35	07/22/15 15:50	1,6020A	KL
Manganese, Total	0.00030	J	mg/l	0.00100	0.00030	1	07/21/15 11:35	07/22/15 15:50	1,6020A	KL

### Prep Information

Digestion Method: EPA 3005A

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** COYNE TEXTILE SERVICES-MW INST**Lab Number:** L1516772**Project Number:** 21.0056730.40**Report Date:** 07/27/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG804488-2								
Iron, Total	96		-		80-120	-		
Manganese, Total	98		-		80-120	-		

**Matrix Spike Analysis**  
Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

<b>Parameter</b>	<b>Native Sample</b>	<b>MS Added</b>	<b>MS Found</b>	<b>MS %Recovery</b>	<b>MSD Qual</b>	<b>MSD Found</b>	<b>MSD %Recovery</b>	<b>MSD Qual</b>	<b>Recovery Limits</b>	<b>RPD</b>	<b>RPD Qual</b>	<b>RPD Limits</b>
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG804488-4 QC Sample: L1516769-01 Client ID: MS Sample												
Iron, Total	0.127	1	0.993	87	-	-	-	-	75-125	-	-	20
Manganese, Total	0.0032	0.5	0.5022	100	-	-	-	-	75-125	-	-	20

## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Project Number:** 21.0056730.40

**Lab Number:** L1516772

**Report Date:** 07/27/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG804488-3 QC Sample: L1516769-01 Client ID: DUP Sample						
Iron, Total	0.127	0.423	mg/l	108	Q	20

# **INORGANICS & MISCELLANEOUS**

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

**SAMPLE RESULTS**

**Lab ID:** L1516772-01  
**Client ID:** MW-5A-72015  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, N  
**Matrix:** Water

**Date Collected:** 07/20/15 15:55  
**Date Received:** 07/20/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Alkalinity, Total	467.		mg CaCO3/L	2.00	NA	1	-	07/21/15 06:00	30,2320B	SG
Nitrogen, Nitrate	0.084	J	mg/l	0.10	0.019	1	-	07/21/15 21:33	44,353.2	MR
Total Organic Carbon	9.4		mg/l	5.0	1.1	10	-	07/23/15 08:33	1,9060A	DW
<b>Anions by Ion Chromatography - Westborough Lab</b>										
Sulfate	72.4		mg/l	1.00	0.051	1	-	07/22/15 19:39	44,300.0	AU



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

**SAMPLE RESULTS**

**Lab ID:** L1516772-02  
**Client ID:** FIELD DUPLICATE-002-72015  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, N  
**Matrix:** Water

**Date Collected:** 07/20/15 00:00  
**Date Received:** 07/20/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Alkalinity, Total	446.		mg CaCO3/L	2.00	NA	1	-	07/21/15 06:00	30,2320B	SG
Nitrogen, Nitrate	0.032	J	mg/l	0.10	0.019	1	-	07/21/15 21:34	44,353.2	MR
Total Organic Carbon	8.9		mg/l	5.0	1.1	10	-	07/23/15 08:33	1,9060A	DW
<b>Anions by Ion Chromatography - Westborough Lab</b>										
Sulfate	72.5		mg/l	1.00	0.051	1	-	07/22/15 19:51	44,300.0	AU



Project Name: COYNE TEXTILE SERVICES-MW INST

Lab Number: L1516772

Project Number: 21.0056730.40

Report Date: 07/27/15

**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): 01-02 Batch: WG804487-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	07/21/15 06:00	30,2320B	SG
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG804731-1										
Nitrogen, Nitrate	0.088	J	mg/l	0.10	0.019	1	-	07/21/15 21:16	44,353.2	MR
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-02 Batch: WG805178-1										
Sulfate	ND		mg/l	1.00	0.051	1	-	07/22/15 18:27	44,300.0	AU
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG805240-1										
Total Organic Carbon	ND		mg/l	0.50	0.11	1	-	07/23/15 08:33	1,9060A	DW

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** COYNE TEXTILE SERVICES-MW INST**Lab Number:** L1516772**Project Number:** 21.0056730.40**Report Date:** 07/27/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG804487-3								
Alkalinity, Total	104		-		90-110	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG804731-2								
Nitrogen, Nitrate	96		-		90-110	-		
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02 Batch: WG805178-2								
Sulfate	99		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG805240-2								
Total Organic Carbon	98		-		90-110	-		

### Matrix Spike Analysis Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

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): 01-02 QC Batch ID: WG804487-4 QC Sample: L1516701-01 Client ID: MS Sample												
Alkalinity, Total	54.3	100	152	98	-	-	-	-	86-116	-	-	10
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG804731-4 QC Sample: L1516790-01 Client ID: MS Sample												
Nitrogen, Nitrate	0.036J	4	3.7	92	-	-	-	-	83-113	-	-	6
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG805178-3 WG805178-4 QC Sample: L1516897-02 Client ID: MS Sample												
Sulfate	670.	200	886	108	885	107	-	-	60-140	0	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG805240-4 QC Sample: L1516897-02 Client ID: MS Sample												
Total Organic Carbon	1.6	20	23	108	-	-	-	-	80-120	-	-	20

## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Project Number:** 21.0056730.40

**Lab Number:** L1516772

**Report Date:** 07/27/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG804487-2 QC Sample: L1516701-01 Client ID: DUP Sample						
Alkalinity, Total	54.3	53.9	mg CaCO3/L	1		10
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG804731-3 QC Sample: L1516790-01 Client ID: DUP Sample						
Nitrogen, Nitrate	0.036J	0.044J	mg/l	NC		6
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG805240-3 QC Sample: L1516897-02 Client ID: DUP Sample						
Total Organic Carbon	1.6	2.2J	mg/l	NC		20

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

### Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

#### Cooler Information Custody Seal

##### Cooler

A Absent

#### Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1516772-01A	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1516772-01B	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1516772-01C	20ml Vial HCl preserved	A	N/A	2.3	Y	Absent	DISSGAS(14)
L1516772-01D	20ml Vial HCl preserved	A	N/A	2.3	Y	Absent	DISSGAS(14)
L1516772-01E	Plastic 120ml unpreserved w/No H	A	N/A	2.3	Y	Absent	ALK-T-2320(14)
L1516772-01F	Plastic 250ml unpreserved	A	7	2.3	Y	Absent	SO4-300(28),NO3-353(2)
L1516772-01G	Plastic 250ml HNO3 preserved	A	<2	2.3	Y	Absent	FE-6020T(180),MN-6020T(180)
L1516772-02A	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1516772-02B	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1516772-02C	20ml Vial HCl preserved	A	N/A	2.3	Y	Absent	DISSGAS(14)
L1516772-02D	20ml Vial HCl preserved	A	N/A	2.3	Y	Absent	DISSGAS(14)
L1516772-02E	Plastic 120ml unpreserved w/No H	A	N/A	2.3	Y	Absent	ALK-T-2320(14)
L1516772-02F	Plastic 250ml unpreserved	A	7	2.3	Y	Absent	SO4-300(28),NO3-353(2)
L1516772-02G	Plastic 250ml HNO3 preserved	A	<2	2.3	Y	Absent	FE-6020T(180),MN-6020T(180)

#### Container Comments

L1516772-01G

L1516772-02G

\*Values in parentheses indicate holding time in days

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

## 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.
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).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

#### Data Qualifiers

- 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.

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 117 Technical Guidance for the Natural Attenuation Indicators: Methane, Ethane, and Ethene, EPA-NE, Revision 1, February 21, 2002 and Sample Preparation & Calculations for Dissolved Gas Analysis in Water Samples using a GC Headspace Equilibration Technique, EPA RSKSOP-175, Revision 2, May 2004.

## 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

Last revised December 16, 2014

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**The following analytes are not included in our NELAP Scope of Accreditation:**

### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**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.

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**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,Tl; **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,Tl,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.**

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For a complete listing of analytes and methods, please contact your Alpha Project Manager.



**NEW YORK CHAIN OF CUSTODY**

Westborough, MA 01581  
8 Walkup Dr.  
TEL: 508-898-9220  
FAX: 508-898-9193

Mansfield, MA 02048  
320 Forbes Blvd  
TEL: 508-822-9300  
FAX: 508-822-3288

**Service Centers**  
Mahwah, NJ 07430: 35 Whitney Rd, Suite 6  
Albany, NY 12205: 14 Walker Way  
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

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of

Date Rec'd  
in Lab

7/21/15

ALPHA Job #

C1516772

**Project Information**  
Project Name: Cayne Textile Services - Miu Installation  
Project Location: 140 Cortland Ave. Syracuse, NY 13202  
Project # 21.0051730.40

**Deliverables**  
 ASP-A  ASP-B  
 EQUIS (1 File)  EQUIS (4 File)  
 Other

**Billing Information**  
 Same as Client Info  
PO #

**Client Information**  
Client: GZA GeoEnvironmental  
Address: 535 Washington St 11th Floor Buffalo, NY 14203  
Phone: 716-685-2300  
Fax: 716-685-3629  
Email: honor.bohlen@gza.com

(Use Project name as Project #)   
Project Manager: Tom Bohlein  
ALPHAQuote #:  
**Turn-Around Time**  
Standard  Due Date: 7/21/15  
Rush (only if pre approved)  VOCs only # of Days: 1

**Regulatory Requirement**  
 NY TOGS  NY Part 375  
 AWQ Standards  NY CP-51  
 NY Restricted Use  Other  
 NY Unrestricted Use  
 NYC Sewer Discharge

**Disposal Site Information**  
Please identify below location of applicable disposal facilities.  
Disposal Facility:  
 NJ  NY  
 Other:

These samples have been previously analyzed by Alpha   
**Other project specific requirements/comments:**  
Please specify Metals or TAL.

**ANALYSIS**

VOC Gases	Dissolved Gases RSC-175	Total Organic Carbon 9088	Total Fe + Mn 6098	Alkalinity 3041	Sulfide 308	Ammonia 3572
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**Sample Filtration**  
 Done  
 Lab to do Preservation  
 Lab to do  
(Please Specify below)  
**Sample Specific Comments**

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS									
		Date	Time			VOC Gases	Dissolved Gases RSC-175	Total Organic Carbon 9088	Total Fe + Mn 6098	Alkalinity 3041	Sulfide 308	Ammonia 3572			
	MW-4-72015	7/20/15	1401	Aqueous	PCF	X									
K6722 -01	MW-5A-72015	7/20/15	1555	↓	PCF	X	X	X	X	X	X	X			
	Trip Blank-006-72015			↓		X									
-02	Field Duplicate-002-72015	7/20/15		Aqueous	PCF	X	X	X	X	X	X	X			

**Preservative Code:**  
A = None  
B = HCl  
C = HNO<sub>3</sub>  
D = H<sub>2</sub>SO<sub>4</sub>  
E = NaOH  
F = MeOH  
G = NaHSO<sub>4</sub>  
H = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
K/E = Zn Ac/NaOH  
O = Other

**Container Code**  
P = Plastic  
A = Amber Glass  
V = Vial  
G = Glass  
B = Bacteria Cup  
C = Cube  
O = Other  
E = Encore  
D = BOD Bottle

Westboro: Certification No: MA935  
Mansfield: Certification No: MA015

Container Type	V	V	V	P	P	P	P
Preservative	B	B	D	C	O	A	A

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Relinquished By:	Date/Time	Received By:	Date/Time
<u>Patricia Finney</u>	7/20/15 20:15	<u>[Signature]</u>	7/20/15 20:15
<u>[Signature]</u>	7/20/15 22:45	<u>[Signature]</u>	7/20/15 22:45
<u>[Signature]</u>	7/21/15 01:20	<u>[Signature]</u>	7/21/15 01:20
<u>[Signature]</u>	7/21/15 9:40	<u>[Signature]</u>	7/21/15 9:40
<u>T. Handwerker</u>	7/21/15 10:25	<u>[Signature]</u>	7/21/15 10:25



**NEW YORK CHAIN OF CUSTODY**

Westborough, MA 01581  
8 Walkup Dr.  
TEL: 508-898-9220  
FAX: 508-898-9193

Mansfield, MA 02048  
320 Forbes Blvd  
TEL: 508-822-9300  
FAX: 508-822-3288

**Service Centers**  
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5  
Albany, NY 12205: 14 Walker Way  
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

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of

Date Rec'd  
in Lab *7/21/15*

ALPHA Job #  
*C1516772*

**Project Information**  
Project Name: *Coyne Textile Services - Miu Installation*  
Project Location: *140 Cortland Ave. Syracuse, NY 13202*  
Project # *21.0056730.40*

**Deliverables**  
 ASP-A  ASP-B  
 EQUIS (1 File)  EQUIS (4 File)  
 Other

**Billing Information**  
 Same as Client Info  
PO #

(Use Project name as Project #)   
Project Manager: *Tom Bohlen*  
ALPHAQuote #:

**Regulatory Requirement**  
 NY TOGS  NY Part 375  
 AWQ Standards  NY CP-51  
 NY Restricted Use  Other  
 NY Unrestricted Use  
 NYC Sewer Discharge

**Disposal Site Information**  
Please identify below location of applicable disposal facilities.  
Disposal Facility:  
 NJ  NY  
 Other:

**Turn-Around Time**  
Standard  Due Date: *7/21/15*  
Rush (only if pre approved)  VOCs only # of Days: *1*

**Client Information**  
Client: *GZA GeoEnvironmental*  
Address: *535 Washington St 11th Floor Buffalo, NY 14203*  
Phone: *716-685-2300*  
Fax: *716-685-3629*  
Email: *Thomas.bohlen@gza.com*

These samples have been previously analyzed by Alpha   
Other project specific requirements/comments:

**ANALYSIS**

VOC B&O	Dissolved Gases RSK-175	Total Organic Carbon 900D	Total Fe & Mn - 600D	Alkalinity 310-1	Sulfate - 308	Nitrate - 353-2
---------	-------------------------	---------------------------	----------------------	------------------	---------------	-----------------

**Sample Filtration**  
 Done  
 Lab to do  
**Preservation**  
 Lab to do  
(Please Specify below)  
Sample Specific Comments

Please specify Metals or TAL.

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS							Sample Specific Comments	Total Bottles		
		Date	Time			VOC B&O	Dissolved Gases RSK-175	Total Organic Carbon 900D	Total Fe & Mn - 600D	Alkalinity 310-1	Sulfate - 308	Nitrate - 353-2				
	MW-4-72015	7/20/15	1401	Aqueous	PCF	X										
<i>16722</i>	MW-5A-72015	7/20/15	1555	↓	PCF	X	X	X	X	X	X	X				
	Trip Blank-006-72015			↓		X										
	Field Duplicate-002-72015	7/20/15		Aqueous	PCF	X	X	X	X	X	X	X				

**Preservative Code:**  
A = None  
B = HCl  
C = HNO<sub>3</sub>  
D = H<sub>2</sub>SO<sub>4</sub>  
E = NaOH  
F = MeOH  
G = NaHSO<sub>4</sub>  
H = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
K/E = Zn Ac/NaOH  
O = Other

**Container Code**  
P = Plastic  
A = Amber Glass  
V = Vial  
G = Glass  
B = Bacteria Cup  
C = Cube  
O = Other  
E = Encore  
D = BOD Bottle

Westboro: Certification No: MA935  
Mansfield: Certification No: MA015

Container Type	V	V	V	P	P	P	P
Preservative	B	B	D	C	O	A	A

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Relinquished By:	Date/Time	Received By:	Date/Time
<i>Patricia Finney</i>	<i>7/20/15 20:15</i>	<i>[Signature]</i>	<i>7/20/15 20:15</i>
<i>[Signature]</i>	<i>7/20/15 22:45</i>	<i>[Signature]</i>	<i>7/20/15 22:45</i>
<i>[Signature]</i>	<i>7/21/15 01:20</i>	<i>[Signature]</i>	<i>7/21/15 01:20</i>



## ANALYTICAL REPORT

Lab Number:	L1516896
Client:	The Palmerton Group 535 Washington Street 11th Floor Buffalo, NY 14203
ATTN:	Thomas Bohlen
Phone:	(716) 844-7050
Project Name:	COYNE TEXTILE SERVICES-MW INST
Project Number:	21.0056730.40
Report Date:	07/22/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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](http://www.alphalab.com)



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516896  
**Report Date:** 07/22/15

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1516896-01	MW-5B-72115	WATER	140 CORTLAND AVE., SYRACUSE, NY 13202	07/21/15 11:10	07/21/15
L1516896-02	MW-5C-72115	WATER	140 CORTLAND AVE., SYRACUSE, NY 13202	07/21/15 13:00	07/21/15
L1516896-03	MW-6A-72115	WATER	140 CORTLAND AVE., SYRACUSE, NY 13202	07/21/15 15:35	07/21/15
L1516896-04	TRIP BLANK-007-72115	WATER	140 CORTLAND AVE., SYRACUSE, NY 13202	07/21/15 00:00	07/21/15

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516896  
**Report Date:** 07/22/15

### 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 all of the requirements of NELAC, for all NELAC accredited parameters. 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:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516896  
**Report Date:** 07/22/15

**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.

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:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 07/22/15

# ORGANICS

# VOLATILES

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516896  
**Report Date:** 07/22/15

**SAMPLE RESULTS**

**Lab ID:** L1516896-01  
**Client ID:** MW-5B-72115  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, NY 13202  
**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 07/22/15 12:06  
**Analyst:** PD

**Date Collected:** 07/21/15 11:10  
**Date Received:** 07/21/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	5.7		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	1.1		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	2.2		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516896  
**Report Date:** 07/22/15

**SAMPLE RESULTS**

**Lab ID:** L1516896-01  
**Client ID:** MW-5B-72115  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, NY 13202

**Date Collected:** 07/21/15 11:10  
**Date Received:** 07/21/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	6.1		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	4.8	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	79		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	105		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516896  
**Report Date:** 07/22/15

**SAMPLE RESULTS**

**Lab ID:** L1516896-02  
**Client ID:** MW-5C-72115  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, NY 13202  
**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 07/22/15 11:46  
**Analyst:** PD

**Date Collected:** 07/21/15 13:00  
**Date Received:** 07/21/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	2.7		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.50	J	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	1.6		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516896  
**Report Date:** 07/22/15

**SAMPLE RESULTS**

**Lab ID:** L1516896-02  
**Client ID:** MW-5C-72115  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, NY 13202

**Date Collected:** 07/21/15 13:00  
**Date Received:** 07/21/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	4.2		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	95		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516896  
**Report Date:** 07/22/15

**SAMPLE RESULTS**

Lab ID: L1516896-03 D  
 Client ID: MW-6A-72115  
 Sample Location: 140 CORTLAND AVE., SYRACUSE, NY 13202  
 Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 07/22/15 12:34  
 Analyst: PD

Date Collected: 07/21/15 15:35  
 Date Received: 07/21/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	250	70.	100
1,1-Dichloroethane	ND		ug/l	250	70.	100
Chloroform	ND		ug/l	250	70.	100
Carbon tetrachloride	ND		ug/l	50	13.	100
1,2-Dichloropropane	ND		ug/l	100	13.	100
Dibromochloromethane	ND		ug/l	50	15.	100
1,1,2-Trichloroethane	ND		ug/l	150	50.	100
Tetrachloroethene	34	J	ug/l	50	18.	100
Chlorobenzene	ND		ug/l	250	70.	100
Trichlorofluoromethane	ND		ug/l	250	70.	100
1,2-Dichloroethane	ND		ug/l	50	13.	100
1,1,1-Trichloroethane	ND		ug/l	250	70.	100
Bromodichloromethane	ND		ug/l	50	19.	100
trans-1,3-Dichloropropene	ND		ug/l	50	16.	100
cis-1,3-Dichloropropene	ND		ug/l	50	14.	100
Bromoform	ND		ug/l	200	65.	100
1,1,2,2-Tetrachloroethane	ND		ug/l	50	14.	100
Benzene	ND		ug/l	50	16.	100
Toluene	ND		ug/l	250	70.	100
Ethylbenzene	ND		ug/l	250	70.	100
Chloromethane	ND		ug/l	250	70.	100
Bromomethane	ND		ug/l	250	70.	100
Vinyl chloride	2000		ug/l	100	7.0	100
Chloroethane	ND		ug/l	250	70.	100
1,1-Dichloroethene	ND		ug/l	50	14.	100
trans-1,2-Dichloroethene	230	J	ug/l	250	70.	100
Trichloroethene	260		ug/l	50	18.	100
1,2-Dichlorobenzene	ND		ug/l	250	70.	100
1,3-Dichlorobenzene	ND		ug/l	250	70.	100
1,4-Dichlorobenzene	ND		ug/l	250	70.	100

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516896  
**Report Date:** 07/22/15

**SAMPLE RESULTS**

Lab ID: L1516896-03 D  
 Client ID: MW-6A-72115  
 Sample Location: 140 CORTLAND AVE., SYRACUSE, NY 13202

Date Collected: 07/21/15 15:35  
 Date Received: 07/21/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/l	250	70.	100
p/m-Xylene	ND		ug/l	250	70.	100
o-Xylene	ND		ug/l	250	70.	100
cis-1,2-Dichloroethene	5300		ug/l	250	70.	100
Styrene	ND		ug/l	250	70.	100
Dichlorodifluoromethane	ND		ug/l	500	100	100
Acetone	ND		ug/l	500	150	100
Carbon disulfide	ND		ug/l	500	100	100
2-Butanone	ND		ug/l	500	190	100
4-Methyl-2-pentanone	ND		ug/l	500	100	100
2-Hexanone	ND		ug/l	500	100	100
Bromochloromethane	ND		ug/l	250	70.	100
1,2-Dibromoethane	ND		ug/l	200	65.	100
n-Butylbenzene	ND		ug/l	250	70.	100
sec-Butylbenzene	ND		ug/l	250	70.	100
tert-Butylbenzene	ND		ug/l	250	70.	100
1,2-Dibromo-3-chloropropane	ND		ug/l	250	70.	100
Isopropylbenzene	ND		ug/l	250	70.	100
p-Isopropyltoluene	ND		ug/l	250	70.	100
Naphthalene	ND		ug/l	250	70.	100
n-Propylbenzene	ND		ug/l	250	70.	100
1,2,3-Trichlorobenzene	ND		ug/l	250	70.	100
1,2,4-Trichlorobenzene	ND		ug/l	250	70.	100
1,3,5-Trimethylbenzene	ND		ug/l	250	70.	100
1,2,4-Trimethylbenzene	ND		ug/l	250	70.	100
Methyl Acetate	ND		ug/l	200	23.	100
Cyclohexane	ND		ug/l	1000	27.	100
1,4-Dioxane	ND		ug/l	25000	4100	100
Freon-113	ND		ug/l	250	70.	100
Methyl cyclohexane	ND		ug/l	1000	40.	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	79		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	106		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516896  
**Report Date:** 07/22/15

**SAMPLE RESULTS**

**Lab ID:** L1516896-04  
**Client ID:** TRIP BLANK-007-72115  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, NY 13202  
**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 07/22/15 11:38  
**Analyst:** PD

**Date Collected:** 07/21/15 00:00  
**Date Received:** 07/21/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516896  
**Report Date:** 07/22/15

**SAMPLE RESULTS**

Lab ID: L1516896-04  
 Client ID: TRIP BLANK-007-72115  
 Sample Location: 140 CORTLAND AVE., SYRACUSE, NY 13202

Date Collected: 07/21/15 00:00  
 Date Received: 07/21/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	79		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	104		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516896  
**Report Date:** 07/22/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/22/15 11:10  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-04 Batch: WG805012-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
2-Chloroethylvinyl ether	ND		ug/l	10	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516896  
**Report Date:** 07/22/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/22/15 11:10  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-04 Batch: WG805012-3					
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylene (Total)	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene (total)	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Isopropyl Ether	ND		ug/l	2.0	0.65
tert-Butyl Alcohol	ND		ug/l	10	0.90
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Acrolein	ND		ug/l	5.0	0.63
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516896  
**Report Date:** 07/22/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/22/15 11:10  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-04 Batch: WG805012-3					
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Ethyl Acetate	ND		ug/l	10	0.70
Cyclohexane	ND		ug/l	10	0.27
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.5	0.70
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	0.28
1,4-Dioxane	ND		ug/l	250	41.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.70
1,4-Diethylbenzene	ND		ug/l	2.0	0.70
4-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Tetrahydrofuran	ND		ug/l	5.0	1.5
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Project Name: COYNE TEXTILE SERVICES-MW INST

Lab Number: L1516896

Project Number: 21.0056730.40

Report Date: 07/22/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 07/22/15 11:10  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-04 Batch: WG805012-3					
Iodomethane	ND		ug/l	5.0	5.0
Methyl cyclohexane	ND		ug/l	10	0.40

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	80		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	104		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516896  
**Report Date:** 07/22/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/22/15 11:10  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG805032-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
2-Chloroethylvinyl ether	ND		ug/l	10	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516896  
**Report Date:** 07/22/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/22/15 11:10  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG805032-3					
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylene (Total)	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene (total)	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Isopropyl Ether	ND		ug/l	2.0	0.65
tert-Butyl Alcohol	ND		ug/l	10	0.90
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516896  
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**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/22/15 11:10  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG805032-3					
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Ethyl Acetate	ND		ug/l	10	0.70
Cyclohexane	ND		ug/l	10	0.27
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.5	0.70
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	0.28
1,4-Dioxane	ND		ug/l	250	41.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.70
1,4-Diethylbenzene	ND		ug/l	2.0	0.70
4-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Tetrahydrofuran	ND		ug/l	5.0	1.5
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70
Iodomethane	ND		ug/l	5.0	5.0

Project Name: COYNE TEXTILE SERVICES-MW INST

Lab Number: L1516896

Project Number: 21.0056730.40

Report Date: 07/22/15

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 07/22/15 11:10  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG805032-3					
Methyl cyclohexane	ND		ug/l	10	0.40

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	95		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516896

**Project Number:** 21.0056730.40

**Report Date:** 07/22/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-04 Batch: WG805012-1 WG805012-2								
Methylene chloride	117		106		70-130	10		20
1,1-Dichloroethane	100		90		70-130	11		20
Chloroform	102		93		70-130	9		20
2-Chloroethylvinyl ether	100		91		70-130	9		20
Carbon tetrachloride	108		102		63-132	6		20
1,2-Dichloropropane	99		90		70-130	10		20
Dibromochloromethane	112		104		63-130	7		20
1,1,2-Trichloroethane	101		93		70-130	8		20
Tetrachloroethene	112		103		70-130	8		20
Chlorobenzene	104		95		75-130	9		20
Trichlorofluoromethane	72		68		62-150	6		20
1,2-Dichloroethane	86		78		70-130	10		20
1,1,1-Trichloroethane	100		94		67-130	6		20
Bromodichloromethane	100		90		67-130	11		20
trans-1,3-Dichloropropene	94		88		70-130	7		20
cis-1,3-Dichloropropene	106		96		70-130	10		20
1,1-Dichloropropene	96		89		70-130	8		20
Bromoform	105		96		54-136	9		20
1,1,2,2-Tetrachloroethane	93		85		67-130	9		20
Benzene	105		95		70-130	10		20
Toluene	102		91		70-130	11		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516896

**Project Number:** 21.0056730.40

**Report Date:** 07/22/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-04 Batch: WG805012-1 WG805012-2								
Ethylbenzene	94		86		70-130	9		20
Chloromethane	76		69		64-130	10		20
Bromomethane	40		38	Q	39-139	5		20
Vinyl chloride	73		67		55-140	9		20
Chloroethane	50	Q	48	Q	55-138	4		20
1,1-Dichloroethene	112		104		61-145	7		20
trans-1,2-Dichloroethene	113		105		70-130	7		20
Trichloroethene	107		98		70-130	9		20
1,2-Dichlorobenzene	97		88		70-130	10		20
1,3-Dichlorobenzene	97		87		70-130	11		20
1,4-Dichlorobenzene	96		87		70-130	10		20
Methyl tert butyl ether	115		105		63-130	9		20
p/m-Xylene	101		93		70-130	8		20
o-Xylene	101		91		70-130	10		20
cis-1,2-Dichloroethene	114		104		70-130	9		20
Dibromomethane	107		99		70-130	8		20
1,2,3-Trichloropropane	84		78		64-130	7		20
Acrylonitrile	105		97		70-130	8		20
Diisopropyl Ether	87		78		70-130	11		20
Tert-Butyl Alcohol	118		114		70-130	3		20
Styrene	96		89		70-130	8		20

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: COYNE TEXTILE SERVICES-MW INST

Lab Number: L1516896

Project Number: 21.0056730.40

Report Date: 07/22/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-04 Batch: WG805012-1 WG805012-2								
Dichlorodifluoromethane	90		84		36-147	7		20
Acetone	98		84		58-148	15		20
Carbon disulfide	115		101		51-130	13		20
2-Butanone	87		81		63-138	7		20
Vinyl acetate	70		63	Q	70-130	11		20
4-Methyl-2-pentanone	98		90		59-130	9		20
2-Hexanone	74		68		57-130	8		20
Acrolein	110		96		40-160	14		20
Bromochloromethane	130		119		70-130	9		20
2,2-Dichloropropane	109		99		63-133	10		20
1,2-Dibromoethane	107		101		70-130	6		20
1,3-Dichloropropane	94		88		70-130	7		20
1,1,1,2-Tetrachloroethane	107		99		64-130	8		20
Bromobenzene	107		96		70-130	11		20
n-Butylbenzene	84		73		53-136	14		20
sec-Butylbenzene	90		80		70-130	12		20
tert-Butylbenzene	95		84		70-130	12		20
o-Chlorotoluene	91		78		70-130	15		20
p-Chlorotoluene	89		79		70-130	12		20
1,2-Dibromo-3-chloropropane	74		71		41-144	4		20
Hexachlorobutadiene	101		96		63-130	5		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516896

**Project Number:** 21.0056730.40

**Report Date:** 07/22/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-04 Batch: WG805012-1 WG805012-2								
Isopropylbenzene	96		84		70-130	13		20
p-Isopropyltoluene	97		84		70-130	14		20
Naphthalene	92		100		70-130	8		20
n-Propylbenzene	89		78		69-130	13		20
1,2,3-Trichlorobenzene	88		97		70-130	10		20
1,2,4-Trichlorobenzene	91		91		70-130	0		20
1,3,5-Trimethylbenzene	94		82		64-130	14		20
1,2,4-Trimethylbenzene	93		82		70-130	13		20
Methyl Acetate	93		83		70-130	11		20
Ethyl Acetate	88		76		70-130	15		20
Cyclohexane	94		87		70-130	8		20
Ethyl-Tert-Butyl-Ether	99		89		70-130	11		20
Tertiary-Amyl Methyl Ether	110		100		66-130	10		20
1,4-Dioxane	152		122		56-162	22	Q	20
Freon-113	110		103		70-130	7		20
p-Diethylbenzene	95		83		70-130	13		20
p-Ethyltoluene	96		84		70-130	13		20
1,2,4,5-Tetramethylbenzene	93		82		70-130	13		20
Ethyl ether	74		62		59-134	18		20
trans-1,4-Dichloro-2-butene	72		67	Q	70-130	7		20
Iodomethane	150	Q	161	Q	70-130	7		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516896  
**Report Date:** 07/22/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-04 Batch: WG805012-1 WG805012-2								
Methyl cyclohexane	109		101		70-130	8		20

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
1,2-Dichloroethane-d4	78		78		70-130
Toluene-d8	96		96		70-130
4-Bromofluorobenzene	96		95		70-130
Dibromofluoromethane	104		105		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516896

**Project Number:** 21.0056730.40

**Report Date:** 07/22/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG805032-1 WG805032-2								
Methylene chloride	87		84		70-130	4		20
1,1-Dichloroethane	83		84		70-130	1		20
Chloroform	82		81		70-130	1		20
2-Chloroethylvinyl ether	85		84		70-130	1		20
Carbon tetrachloride	88		89		63-132	1		20
1,2-Dichloropropane	89		88		70-130	1		20
Dibromochloromethane	99		98		63-130	1		20
1,1,2-Trichloroethane	101		103		70-130	2		20
Tetrachloroethene	108		108		70-130	0		20
Chlorobenzene	99		97		75-130	2		20
Trichlorofluoromethane	78		80		62-150	3		20
1,2-Dichloroethane	79		78		70-130	1		20
1,1,1-Trichloroethane	82		83		67-130	1		20
Bromodichloromethane	80		79		67-130	1		20
trans-1,3-Dichloropropene	98		98		70-130	0		20
cis-1,3-Dichloropropene	88		87		70-130	1		20
1,1-Dichloropropene	81		80		70-130	1		20
Bromoform	105		103		54-136	2		20
1,1,2,2-Tetrachloroethane	98		98		67-130	0		20
Benzene	94		93		70-130	1		20
Toluene	98		97		70-130	1		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516896

**Project Number:** 21.0056730.40

**Report Date:** 07/22/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG805032-1 WG805032-2								
Ethylbenzene	95		93		70-130	2		20
Chloromethane	66		60	Q	64-130	10		20
Bromomethane	62		64		39-139	3		20
Vinyl chloride	70		70		55-140	0		20
Chloroethane	93		90		55-138	3		20
1,1-Dichloroethene	88		88		61-145	0		20
trans-1,2-Dichloroethene	91		92		70-130	1		20
Trichloroethene	85		84		70-130	1		20
1,2-Dichlorobenzene	98		97		70-130	1		20
1,3-Dichlorobenzene	97		96		70-130	1		20
1,4-Dichlorobenzene	98		95		70-130	3		20
Methyl tert butyl ether	89		93		63-130	4		20
p/m-Xylene	100		97		70-130	3		20
o-Xylene	98		96		70-130	2		20
cis-1,2-Dichloroethene	89		89		70-130	0		20
Dibromomethane	90		90		70-130	0		20
1,2,3-Trichloropropane	97		96		64-130	1		20
Acrylonitrile	90		88		70-130	2		20
Diisopropyl Ether	76		76		70-130	0		20
Tert-Butyl Alcohol	90		101		70-130	12		20
Styrene	103		100		70-130	3		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516896

**Project Number:** 21.0056730.40

**Report Date:** 07/22/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG805032-1 WG805032-2								
Dichlorodifluoromethane	116		111		36-147	4		20
Acetone	76		70		58-148	8		20
Carbon disulfide	80		77		51-130	4		20
2-Butanone	84		86		63-138	2		20
Vinyl acetate	66	Q	66	Q	70-130	0		20
4-Methyl-2-pentanone	84		83		59-130	1		20
2-Hexanone	70		70		57-130	0		20
Bromochloromethane	95		95		70-130	0		20
2,2-Dichloropropane	96		96		63-133	0		20
1,2-Dibromoethane	100		99		70-130	1		20
1,3-Dichloropropane	98		99		70-130	1		20
1,1,1,2-Tetrachloroethane	102		101		64-130	1		20
Bromobenzene	100		98		70-130	2		20
n-Butylbenzene	84		84		53-136	0		20
sec-Butylbenzene	91		90		70-130	1		20
tert-Butylbenzene	90		89		70-130	1		20
o-Chlorotoluene	91		88		70-130	3		20
p-Chlorotoluene	92		90		70-130	2		20
1,2-Dibromo-3-chloropropane	79		78		41-144	1		20
Hexachlorobutadiene	87		88		63-130	1		20
Isopropylbenzene	93		91		70-130	2		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516896

**Project Number:** 21.0056730.40

**Report Date:** 07/22/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG805032-1 WG805032-2								
p-Isopropyltoluene	93		91		70-130	2		20
Naphthalene	81		84		70-130	4		20
n-Propylbenzene	94		92		69-130	2		20
1,2,3-Trichlorobenzene	81		85		70-130	5		20
1,2,4-Trichlorobenzene	85		88		70-130	3		20
1,3,5-Trimethylbenzene	95		91		64-130	4		20
1,2,4-Trimethylbenzene	94		91		70-130	3		20
Methyl Acetate	86		86		70-130	0		20
Ethyl Acetate	79		79		70-130	0		20
Cyclohexane	86		86		70-130	0		20
Ethyl-Tert-Butyl-Ether	85		85		70-130	0		20
Tertiary-Amyl Methyl Ether	86		85		66-130	1		20
1,4-Dioxane	93		98		56-162	5		20
Freon-113	91		94		70-130	3		20
p-Diethylbenzene	92		90		70-130	2		20
p-Ethyltoluene	96		95		70-130	1		20
1,2,4,5-Tetramethylbenzene	91		88		70-130	3		20
Ethyl ether	104		107		59-134	3		20
trans-1,4-Dichloro-2-butene	92		89		70-130	3		20
Iodomethane	50	Q	58	Q	70-130	15		20
Methyl cyclohexane	88		88		70-130	0		20

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** COYNE TEXTILE SERVICES-MW INST**Lab Number:** L1516896**Project Number:** 21.0056730.40**Report Date:** 07/22/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
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Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG805032-1 WG805032-2

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
1,2-Dichloroethane-d4	84		85		70-130
Toluene-d8	102		103		70-130
4-Bromofluorobenzene	90		89		70-130
Dibromofluoromethane	90		93		70-130

## Matrix Spike Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516896

**Project Number:** 21.0056730.40

**Report Date:** 07/22/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02    QC Batch ID: WG805032-4    WG805032-5    QC Sample: L1516896-02    Client ID: MW-5C-72115												
Methylene chloride	ND	10	9.5	95		9.9	99		70-130	4		20
1,1-Dichloroethane	ND	10	9.9	99		10	100		70-130	1		20
Chloroform	ND	10	9.8	98		10	101		70-130	2		20
Carbon tetrachloride	ND	10	10	105		10	106		63-132	0		20
1,2-Dichloropropane	ND	10	9.9	99		10	102		70-130	1		20
Dibromochloromethane	ND	10	11	111		11	111		63-130	0		20
1,1,2-Trichloroethane	ND	10	11	115		12	117		70-130	9		20
Tetrachloroethene	2.7	10	16	130		15	127		70-130	6		20
Chlorobenzene	ND	10	11	110		11	111		75-130	0		20
Trichlorofluoromethane	ND	10	9.5	96		9.8	98		62-150	3		20
1,2-Dichloroethane	ND	10	8.7	87		9.1	91		70-130	4		20
1,1,1-Trichloroethane	ND	10	9.7	97		9.9	99		67-130	2		20
Bromodichloromethane	ND	10	9.1	91		9.3	93		67-130	2		20
trans-1,3-Dichloropropene	ND	10	11	109		11	110		70-130	0		20
cis-1,3-Dichloropropene	ND	10	9.6	96		9.8	99		70-130	2		20
1,1-Dichloropropene	ND	10	9.6	96		9.6	96		70-130	0		20
Bromoform	ND	10	11	110		11	113		54-136	0		20
1,1,2,2-Tetrachloroethane	ND	10	10	105		11	109		67-130	10		20
Benzene	ND	10	11	107		11	107		70-130	0		20
Toluene	ND	10	11	114		11	112		70-130	0		20
Ethylbenzene	ND	10	11	108		11	107		70-130	0		20

## Matrix Spike Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516896  
**Report Date:** 07/22/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 QC Batch ID: WG805032-4 WG805032-5 QC Sample: L1516896-02 Client ID: MW-5C-72115												
Chloromethane	ND	10	7.1	71		7.3	73		64-130	3		20
Bromomethane	ND	10	7.0	70		7.6	76		39-139	8		20
Vinyl chloride	0.50J	10	8.9	89		9.0	90		55-140	1		20
Chloroethane	ND	10	11	107		11	107		55-138	0		20
1,1-Dichloroethene	ND	10	10	106		11	108		61-145	10		20
trans-1,2-Dichloroethene	ND	10	11	108		11	110		70-130	0		20
Trichloroethene	1.6	10	11	97		12	99		70-130	9		20
1,2-Dichlorobenzene	ND	10	11	107		11	108		70-130	0		20
1,3-Dichlorobenzene	ND	10	11	107		11	109		70-130	0		20
1,4-Dichlorobenzene	ND	10	10	106		11	107		70-130	10		20
Methyl tert butyl ether	ND	10	9.9	99		11	106		63-130	11		20
p/m-Xylene	ND	20	22	113		22	111		70-130	0		20
o-Xylene	ND	20	22	110		22	109		70-130	0		20
cis-1,2-Dichloroethene	4.2	10	14	103		15	107		70-130	7		20
Dibromomethane	ND	10	9.8	98		10	103		70-130	2		20
1,2,3-Trichloropropane	ND	10	10	103		10	105		64-130	0		20
Acrylonitrile	ND	10	9.4	94		10	101		70-130	6		20
Diisopropyl Ether	ND	10	8.3	83		8.7	87		70-130	5		20
Tert-Butyl Alcohol	ND	50	47	95		57	114		70-130	19		20
Styrene	ND	20	23	114		23	114		70-130	0		20
Dichlorodifluoromethane	ND	10	14	137		14	136		36-147	0		20

## Matrix Spike Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516896

**Project Number:** 21.0056730.40

**Report Date:** 07/22/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Recovery Qual</i>	<i>Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 QC Batch ID: WG805032-4 WG805032-5 QC Sample: L1516896-02 Client ID: MW-5C-72115												
Acetone	ND	10	7.8	78		7.8	78		58-148	0		20
Carbon disulfide	ND	10	9.1	91		9.2	92		51-130	1		20
2-Butanone	ND	10	8.3	83		8.9	89		63-138	7		20
Vinyl acetate	ND	10	7.3	73		7.9	79		70-130	8		20
4-Methyl-2-pentanone	ND	10	8.2	82		8.4	84		59-130	2		20
2-Hexanone	ND	10	7.6	76		8.0	80		57-130	5		20
Bromochloromethane	ND	10	11	107		11	110		70-130	0		20
2,2-Dichloropropane	ND	10	11	113		11	114		63-133	0		20
1,2-Dibromoethane	ND	10	11	110		11	112		70-130	0		20
1,3-Dichloropropane	ND	10	11	110		11	112		70-130	0		20
1,1,1,2-Tetrachloroethane	ND	10	11	113		12	115		64-130	9		20
Bromobenzene	ND	10	11	111		11	112		70-130	0		20
n-Butylbenzene	ND	10	9.5	95		9.6	96		53-136	1		20
sec-Butylbenzene	ND	10	10	102		10	103		70-130	0		20
tert-Butylbenzene	ND	10	10	101		10	102		70-130	0		20
o-Chlorotoluene	ND	10	9.8	98		9.9	99		70-130	1		20
p-Chlorotoluene	ND	10	10	101		10	101		70-130	0		20
1,2-Dibromo-3-chloropropane	ND	10	8.0	80		8.9	89		41-144	11		20
Hexachlorobutadiene	ND	10	9.5	95		10	100		63-130	5		20
Isopropylbenzene	ND	10	10	105		10	105		70-130	0		20
p-Isopropyltoluene	ND	10	10	105		10	105		70-130	0		20

## Matrix Spike Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516896  
**Report Date:** 07/22/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 QC Batch ID: WG805032-4 WG805032-5 QC Sample: L1516896-02 Client ID: MW-5C-72115												
Naphthalene	ND	10	8.9	89		9.8	98		70-130	10		20
n-Propylbenzene	ND	10	10	106		10	105		69-130	0		20
1,2,3-Trichlorobenzene	ND	10	9.1	91		9.7	97		70-130	6		20
1,2,4-Trichlorobenzene	ND	10	9.3	93		9.9	99		70-130	6		20
1,3,5-Trimethylbenzene	ND	10	10	105		10	105		64-130	0		20
1,2,4-Trimethylbenzene	ND	10	10	103		10	104		70-130	0		20
Methyl Acetate	ND	10	9.0	90		9.8	98		70-130	9		20
Ethyl Acetate	ND	10	8.8J	88		9.1J	91		70-130	3		20
Cyclohexane	ND	10	10	103		10	103		70-130	0		20
Ethyl-Tert-Butyl-Ether	ND	10	9.3	93		9.7	97		70-130	4		20
Tertiary-Amyl Methyl Ether	ND	10	9.3	93		9.8	98		66-130	5		20
1,4-Dioxane	ND	500	420	84		530	105		56-162	23	Q	20
Freon-113	ND	10	11	113		11	112		70-130	0		20
p-Diethylbenzene	ND	10	10	102		10	104		70-130	0		20
p-Ethyltoluene	ND	10	11	108		11	108		70-130	0		20
1,2,4,5-Tetramethylbenzene	ND	10	9.8	98		10	101		70-130	2		20
Ethyl ether	ND	10	12	116		12	121		59-134	0		20
trans-1,4-Dichloro-2-butene	ND	10	9.3	93		9.8	98		70-130	5		20
Methyl cyclohexane	ND	10	10	104		10	104		70-130	0		20

## Matrix Spike Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516896

**Project Number:** 21.0056730.40

**Report Date:** 07/22/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
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Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 QC Batch ID: WG805032-4 WG805032-5 QC Sample: L1516896-02 Client ID: MW-5C-72115

<i>Surrogate</i>	<i>MS</i>		<i>MSD</i>		<i>Acceptance Criteria</i>
	<i>% Recovery</i>	<i>Qualifier</i>	<i>% Recovery</i>	<i>Qualifier</i>	
1,2-Dichloroethane-d4	84		88		70-130
4-Bromofluorobenzene	88		88		70-130
Dibromofluoromethane	93		95		70-130
Toluene-d8	103		102		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516896  
**Report Date:** 07/22/15

### Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

#### Cooler Information Custody Seal

##### Cooler

A Absent

#### Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1516896-01A	Vial HCl preserved	A	N/A	3.4	Y	Absent	NYTCL-8260(14)
L1516896-01B	Vial HCl preserved	A	N/A	3.4	Y	Absent	NYTCL-8260(14)
L1516896-01C	Vial HCl preserved	A	N/A	3.4	Y	Absent	NYTCL-8260(14)
L1516896-02A	Vial HCl preserved	A	N/A	3.4	Y	Absent	NYTCL-8260(14)
L1516896-02A1	Vial HCl preserved	A	N/A	3.4	Y	Absent	NYTCL-8260(14)
L1516896-02A2	Vial HCl preserved	A	N/A	3.4	Y	Absent	NYTCL-8260(14)
L1516896-02B	Vial HCl preserved	A	N/A	3.4	Y	Absent	NYTCL-8260(14)
L1516896-02B1	Vial HCl preserved	A	N/A	3.4	Y	Absent	NYTCL-8260(14)
L1516896-02B2	Vial HCl preserved	A	N/A	3.4	Y	Absent	NYTCL-8260(14)
L1516896-02C	Vial HCl preserved	A	N/A	3.4	Y	Absent	NYTCL-8260(14)
L1516896-02C1	Vial HCl preserved	A	N/A	3.4	Y	Absent	NYTCL-8260(14)
L1516896-02C2	Vial HCl preserved	A	N/A	3.4	Y	Absent	NYTCL-8260(14)
L1516896-03A	Vial HCl preserved	A	N/A	3.4	Y	Absent	NYTCL-8260(14)
L1516896-03B	Vial HCl preserved	A	N/A	3.4	Y	Absent	NYTCL-8260(14)
L1516896-03C	Vial HCl preserved	A	N/A	3.4	Y	Absent	NYTCL-8260(14)
L1516896-04A	Vial HCl preserved	A	N/A	3.4	Y	Absent	NYTCL-8260(14)
L1516896-04B	Vial HCl preserved	A	N/A	3.4	Y	Absent	NYTCL-8260(14)

\*Values in parentheses indicate holding time in days

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516896  
**Report Date:** 07/22/15

## 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.
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.
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### 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

<b>A</b>	- Spectra identified as "Aldol Condensation Product".
<b>B</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).
<b>C</b>	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
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#### Data Qualifiers

- 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.

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516896  
**Report Date:** 07/22/15

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

## 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

Last revised December 16, 2014

### The following analytes are not included in our NELAP Scope of Accreditation:

#### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

#### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**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.

### 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,Tl; **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,Tl,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.



**NEW YORK CHAIN OF CUSTODY**

Westborough, MA 01581  
8 Walkup Dr.  
TEL: 508-898-9220  
FAX: 508-898-9193

Mansfield, MA 02048  
320 Forbes Blvd  
TEL: 508-822-9300  
FAX: 508-822-3288

**Service Centers**  
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5  
Albany, NY 12205: 14 Walker Way  
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page  
of

Date Rec'd  
in Lab **7/22/15**

ALPHA Job #  
**L1516896**

**Project Information**  
Project Name: **Cayne Textile Services - MW Installation**  
Project Location: **140 Cortland Ave. Syracuse, NY 13202**  
Project # **21.0056730.40**

**Deliverables**  
 ASP-A  ASP-B  
 EQUIS (1 File)  EQUIS (4 File)  
 Other

**Billing Information**  
 Same as Client Info  
PO #

(Use Project name as Project #)   
Project Manager: **Tom Bohlen**  
ALPHAQuote #:

**Regulatory Requirement**  
 NY TOGS  NY Part 375  
 AWQ Standards  NY CP-51  
 NY Restricted Use  Other  
 NY Unrestricted Use  
 NYC Sewer Discharge

**Disposal Site Information**  
Please identify below location of applicable disposal facilities.  
Disposal Facility:  
 NJ  NY  
 Other:

**Turn-Around Time**  
Standard  Due Date: **7/22/15**  
Rush (only if pre approved)  **VOLS ONLY** # of Days: **1**

**Client Information**  
Client: **GZA Geo Environmental**  
Address: **535 Washington St. 11th Floor Buffalo, NY 14203**  
Phone: **716-685-2300**  
Fax: **716-685-3029**  
Email: **Thomas.bohlen@gza.com**

These samples have been previously analyzed by Alpha   
**Other project specific requirements/comments:**  
  
**Please specify Metals or TAL.**

**ANALYSIS**

Voc 8260	Dissolved gases 254-175	Total Organic Carbon 940	Total Fe & Mn - 6010	Alkalinity - 310.1	Sulfate - 300	Nitrate - 353.2
----------	-------------------------	--------------------------	----------------------	--------------------	---------------	-----------------

**Sample Filtration**  
 Done  
 Lab to do  
**Preservation**  
 Lab to do  
*(Please Specify below)*

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS							Sample Specific Comments	Total Bottles	
		Date	Time			Voc 8260	Dissolved gases 254-175	Total Organic Carbon 940	Total Fe & Mn - 6010	Alkalinity - 310.1	Sulfate - 300	Nitrate - 353.2			
16896-01	MW-5B-72115	7/21/15	1100	Aqueous	PCF	X	X	X	X	X	X	X			
02	MW-5C-72115	↓	1300	↓	PCF	X	X	X	X	X	X	X	MMSD (triple of each)		
03	MW-6A-72115	↓	1535	↓	PCF	X	X	X	X	X	X	X			
04	Trip Blank-007-72115			↓		X									

**Preservative Code:**  
A = None  
B = HCl  
C = HNO<sub>3</sub>  
D = H<sub>2</sub>SO<sub>4</sub>  
E = NaOH  
F = MeOH  
G = NaHSO<sub>4</sub>  
H = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
K/E = Zn Ac/NaOH  
O = Other

**Container Code**  
P = Plastic  
A = Amber Glass  
V = Vial  
G = Glass  
B = Bacteria Cup  
C = Cube  
O = Other  
E = Encore  
D = BOD Bottle

Westboro: Certification No: MA935  
Mansfield: Certification No: MA015

Container Type	V	V	V	P	P	P	P
Preservative	B	B	D	C	O	A	A

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

**Relinquished By:** *Patricia Finney* **Date/Time:** **07/21/15 1705**  
*John C. ...* **Date/Time:** **7/21/15 2315**  
*John C. ...* **Date/Time:** **7/22/15 0140**

**Received By:** *John C. ...* **Date/Time:** **7/21/15 1700**  
*John C. ...* **Date/Time:** **7/21/15 2315**  
*John C. ...* **Date/Time:** **7/22/15 0140**



## ANALYTICAL REPORT

Lab Number:	L1517051
Client:	The Palmerton Group 535 Washington Street 11th Floor Buffalo, NY 14203
ATTN:	Thomas Bohlen
Phone:	(716) 844-7050
Project Name:	COYNE TEXTILE SERVICES-MW INST
Project Number:	21.0056730.40
Report Date:	07/23/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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).

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517051  
**Report Date:** 07/23/15

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1517051-01	MW-7A-72215	WATER	140 CORTLAND AVE. SYRACUSE, NY 13202	07/22/15 12:25	07/22/15
L1517051-02	MW-7B-72215	WATER	140 CORTLAND AVE. SYRACUSE, NY 13202	07/22/15 14:55	07/22/15
L1517051-03	MW-7C-72215	WATER	140 CORTLAND AVE. SYRACUSE, NY 13202	07/22/15 16:45	07/22/15
L1517051-04	TRIP BLANK-008-72215	WATER	140 CORTLAND AVE. SYRACUSE, NY 13202	07/22/15 00:00	07/22/15

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517051  
**Report Date:** 07/23/15

### 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 all of the requirements of NELAC, for all NELAC accredited parameters. 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.

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**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517051  
**Report Date:** 07/23/15

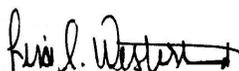
**Case Narrative (continued)**

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

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:



Lisa Westerlind

Title: Technical Director/Representative

Date: 07/23/15

# ORGANICS

# VOLATILES

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517051  
**Report Date:** 07/23/15

**SAMPLE RESULTS**

Lab ID: L1517051-01 D  
 Client ID: MW-7A-72215  
 Sample Location: 140 CORTLAND AVE. SYRACUSE, NY 13202  
 Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 07/23/15 11:00  
 Analyst: PD

Date Collected: 07/22/15 12:25  
 Date Received: 07/22/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	10	2.8	4
1,1-Dichloroethane	ND		ug/l	10	2.8	4
Chloroform	ND		ug/l	10	2.8	4
Carbon tetrachloride	ND		ug/l	2.0	0.54	4
1,2-Dichloropropane	ND		ug/l	4.0	0.53	4
Dibromochloromethane	ND		ug/l	2.0	0.60	4
1,1,2-Trichloroethane	ND		ug/l	6.0	2.0	4
Tetrachloroethene	ND		ug/l	2.0	0.72	4
Chlorobenzene	ND		ug/l	10	2.8	4
Trichlorofluoromethane	ND		ug/l	10	2.8	4
1,2-Dichloroethane	ND		ug/l	2.0	0.53	4
1,1,1-Trichloroethane	ND		ug/l	10	2.8	4
Bromodichloromethane	ND		ug/l	2.0	0.77	4
trans-1,3-Dichloropropene	ND		ug/l	2.0	0.66	4
cis-1,3-Dichloropropene	ND		ug/l	2.0	0.58	4
Bromoform	ND		ug/l	8.0	2.6	4
1,1,2,2-Tetrachloroethane	ND		ug/l	2.0	0.58	4
Benzene	0.74	J	ug/l	2.0	0.64	4
Toluene	ND		ug/l	10	2.8	4
Ethylbenzene	ND		ug/l	10	2.8	4
Chloromethane	ND		ug/l	10	2.8	4
Bromomethane	ND		ug/l	10	2.8	4
Vinyl chloride	500		ug/l	4.0	0.28	4
Chloroethane	ND		ug/l	10	2.8	4
1,1-Dichloroethene	ND		ug/l	2.0	0.57	4
trans-1,2-Dichloroethene	ND		ug/l	10	2.8	4
Trichloroethene	ND		ug/l	2.0	0.70	4
1,2-Dichlorobenzene	ND		ug/l	10	2.8	4
1,3-Dichlorobenzene	ND		ug/l	10	2.8	4
1,4-Dichlorobenzene	ND		ug/l	10	2.8	4

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517051  
**Report Date:** 07/23/15

**SAMPLE RESULTS**

Lab ID: L1517051-01 D  
 Client ID: MW-7A-72215  
 Sample Location: 140 CORTLAND AVE. SYRACUSE, NY 13202

Date Collected: 07/22/15 12:25  
 Date Received: 07/22/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/l	10	2.8	4
p/m-Xylene	ND		ug/l	10	2.8	4
o-Xylene	ND		ug/l	10	2.8	4
cis-1,2-Dichloroethene	460		ug/l	10	2.8	4
Styrene	ND		ug/l	10	2.8	4
Dichlorodifluoromethane	ND		ug/l	20	4.0	4
Acetone	14	J	ug/l	20	5.8	4
Carbon disulfide	ND		ug/l	20	4.0	4
2-Butanone	ND		ug/l	20	7.8	4
4-Methyl-2-pentanone	ND		ug/l	20	4.0	4
2-Hexanone	ND		ug/l	20	4.0	4
Bromochloromethane	ND		ug/l	10	2.8	4
1,2-Dibromoethane	ND		ug/l	8.0	2.6	4
n-Butylbenzene	ND		ug/l	10	2.8	4
sec-Butylbenzene	ND		ug/l	10	2.8	4
tert-Butylbenzene	ND		ug/l	10	2.8	4
1,2-Dibromo-3-chloropropane	ND		ug/l	10	2.8	4
Isopropylbenzene	ND		ug/l	10	2.8	4
p-Isopropyltoluene	ND		ug/l	10	2.8	4
Naphthalene	ND		ug/l	10	2.8	4
n-Propylbenzene	ND		ug/l	10	2.8	4
1,2,3-Trichlorobenzene	ND		ug/l	10	2.8	4
1,2,4-Trichlorobenzene	ND		ug/l	10	2.8	4
1,3,5-Trimethylbenzene	ND		ug/l	10	2.8	4
1,2,4-Trimethylbenzene	ND		ug/l	10	2.8	4
Methyl Acetate	ND		ug/l	8.0	0.94	4
Cyclohexane	ND		ug/l	40	1.1	4
1,4-Dioxane	ND		ug/l	1000	160	4
Freon-113	ND		ug/l	10	2.8	4
Methyl cyclohexane	ND		ug/l	40	1.6	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	84		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	108		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517051  
**Report Date:** 07/23/15

**SAMPLE RESULTS**

**Lab ID:** L1517051-02  
**Client ID:** MW-7B-72215  
**Sample Location:** 140 CORTLAND AVE. SYRACUSE, NY 13202  
**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 07/23/15 11:28  
**Analyst:** PD

**Date Collected:** 07/22/15 14:55  
**Date Received:** 07/22/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	2.5		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	0.20	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	210	E	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	1.1	J	ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517051  
**Report Date:** 07/23/15

**SAMPLE RESULTS**

**Lab ID:** L1517051-02  
**Client ID:** MW-7B-72215  
**Sample Location:** 140 CORTLAND AVE. SYRACUSE, NY 13202

**Date Collected:** 07/22/15 14:55  
**Date Received:** 07/22/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	180		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	16		ug/l	5.0	1.5	1
Carbon disulfide	6.4		ug/l	5.0	1.0	1
2-Butanone	1.9	J	ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	83		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	109		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517051  
**Report Date:** 07/23/15

**SAMPLE RESULTS**

Lab ID: L1517051-02 D  
 Client ID: MW-7B-72215  
 Sample Location: 140 CORTLAND AVE. SYRACUSE, NY 13202  
 Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 07/23/15 12:52  
 Analyst: PD

Date Collected: 07/22/15 14:55  
 Date Received: 07/22/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab						
Vinyl chloride	240		ug/l	5.0	0.35	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	108		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517051  
**Report Date:** 07/23/15

**SAMPLE RESULTS**

**Lab ID:** L1517051-03  
**Client ID:** MW-7C-72215  
**Sample Location:** 140 CORTLAND AVE. SYRACUSE, NY 13202  
**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 07/23/15 11:56  
**Analyst:** PD

**Date Collected:** 07/22/15 16:45  
**Date Received:** 07/22/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	0.83	J	ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.87	J	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517051  
**Report Date:** 07/23/15

**SAMPLE RESULTS**

**Lab ID:** L1517051-03  
**Client ID:** MW-7C-72215  
**Sample Location:** 140 CORTLAND AVE. SYRACUSE, NY 13202

**Date Collected:** 07/22/15 16:45  
**Date Received:** 07/22/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	1.4	J	ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.3	J	ug/l	5.0	1.5	1
Carbon disulfide	1.0	J	ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	84		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	110		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517051  
**Report Date:** 07/23/15

**SAMPLE RESULTS**

Lab ID: L1517051-04  
 Client ID: TRIP BLANK-008-72215  
 Sample Location: 140 CORTLAND AVE. SYRACUSE, NY 13202  
 Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 07/23/15 10:32  
 Analyst: PD

Date Collected: 07/22/15 00:00  
 Date Received: 07/22/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517051  
**Report Date:** 07/23/15

**SAMPLE RESULTS**

**Lab ID:** L1517051-04  
**Client ID:** TRIP BLANK-008-72215  
**Sample Location:** 140 CORTLAND AVE. SYRACUSE, NY 13202

**Date Collected:** 07/22/15 00:00  
**Date Received:** 07/22/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	109		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517051  
**Report Date:** 07/23/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/23/15 10:04  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG805383-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
2-Chloroethylvinyl ether	ND		ug/l	10	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517051  
**Report Date:** 07/23/15

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/23/15 10:04  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG805383-3					
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylene (Total)	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene (total)	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Isopropyl Ether	ND		ug/l	2.0	0.65
tert-Butyl Alcohol	ND		ug/l	10	0.90
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Acrolein	ND		ug/l	5.0	0.63
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517051  
**Report Date:** 07/23/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/23/15 10:04  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG805383-3					
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Ethyl Acetate	ND		ug/l	10	0.70
Cyclohexane	ND		ug/l	10	0.27
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.5	0.70
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	0.28
1,4-Dioxane	ND		ug/l	250	41.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.70
1,4-Diethylbenzene	ND		ug/l	2.0	0.70
4-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Tetrahydrofuran	ND		ug/l	5.0	1.5
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Project Name: COYNE TEXTILE SERVICES-MW INST

Lab Number: L1517051

Project Number: 21.0056730.40

Report Date: 07/23/15

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 07/23/15 10:04  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG805383-3					
Iodomethane	ND		ug/l	5.0	5.0
Methyl cyclohexane	ND		ug/l	10	0.40

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	110		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1517051

**Project Number:** 21.0056730.40

**Report Date:** 07/23/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG805383-1 WG805383-2								
Methylene chloride	108		110		70-130	2		20
1,1-Dichloroethane	98		96		70-130	2		20
Chloroform	100		100		70-130	0		20
2-Chloroethylvinyl ether	86		90		70-130	5		20
Carbon tetrachloride	115		114		63-132	1		20
1,2-Dichloropropane	94		95		70-130	1		20
Dibromochloromethane	104		106		63-130	2		20
1,1,2-Trichloroethane	89		93		70-130	4		20
Tetrachloroethene	107		107		70-130	0		20
Chlorobenzene	98		98		75-130	0		20
Trichlorofluoromethane	71		71		62-150	0		20
1,2-Dichloroethane	85		87		70-130	2		20
1,1,1-Trichloroethane	103		104		67-130	1		20
Bromodichloromethane	97		98		67-130	1		20
trans-1,3-Dichloropropene	87		90		70-130	3		20
cis-1,3-Dichloropropene	99		102		70-130	3		20
1,1-Dichloropropene	95		95		70-130	0		20
Bromoform	93		96		54-136	3		20
1,1,2,2-Tetrachloroethane	80		84		67-130	5		20
Benzene	100		99		70-130	1		20
Toluene	92		92		70-130	0		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1517051

**Project Number:** 21.0056730.40

**Report Date:** 07/23/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG805383-1 WG805383-2								
Ethylbenzene	89		88		70-130	1		20
Chloromethane	72		72		64-130	0		20
Bromomethane	43		45		39-139	5		20
Vinyl chloride	69		66		55-140	4		20
Chloroethane	43	Q	41	Q	55-138	5		20
1,1-Dichloroethene	103		98		61-145	5		20
trans-1,2-Dichloroethene	109		109		70-130	0		20
Trichloroethene	105		106		70-130	1		20
1,2-Dichlorobenzene	88		90		70-130	2		20
1,3-Dichlorobenzene	87		91		70-130	4		20
1,4-Dichlorobenzene	88		88		70-130	0		20
Methyl tert butyl ether	102		106		63-130	4		20
p/m-Xylene	95		93		70-130	2		20
o-Xylene	92		93		70-130	1		20
cis-1,2-Dichloroethene	108		107		70-130	1		20
Dibromomethane	102		104		70-130	2		20
1,2,3-Trichloropropane	74		77		64-130	4		20
Acrylonitrile	94		97		70-130	3		20
Diisopropyl Ether	83		84		70-130	1		20
Tert-Butyl Alcohol	101		108		70-130	7		20
Styrene	89		90		70-130	1		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1517051

**Project Number:** 21.0056730.40

**Report Date:** 07/23/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG805383-1 WG805383-2								
Dichlorodifluoromethane	96		94		36-147	2		20
Acetone	80		83		58-148	4		20
Carbon disulfide	105		99		51-130	6		20
2-Butanone	77		84		63-138	9		20
Vinyl acetate	64	Q	68	Q	70-130	6		20
4-Methyl-2-pentanone	83		88		59-130	6		20
2-Hexanone	61		66		57-130	8		20
Acrolein	90		96		40-160	6		20
Bromochloromethane	119		123		70-130	3		20
2,2-Dichloropropane	110		108		63-133	2		20
1,2-Dibromoethane	97		101		70-130	4		20
1,3-Dichloropropane	88		89		70-130	1		20
1,1,1,2-Tetrachloroethane	101		103		64-130	2		20
Bromobenzene	97		98		70-130	1		20
n-Butylbenzene	77		75		53-136	3		20
sec-Butylbenzene	83		81		70-130	2		20
tert-Butylbenzene	90		86		70-130	5		20
o-Chlorotoluene	83		81		70-130	2		20
p-Chlorotoluene	82		81		70-130	1		20
1,2-Dibromo-3-chloropropane	72		73		41-144	1		20
Hexachlorobutadiene	101		97		63-130	4		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1517051

**Project Number:** 21.0056730.40

**Report Date:** 07/23/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG805383-1 WG805383-2								
Isopropylbenzene	88		86		70-130	2		20
p-Isopropyltoluene	89		85		70-130	5		20
Naphthalene	88		95		70-130	8		20
n-Propylbenzene	82		79		69-130	4		20
1,2,3-Trichlorobenzene	91		95		70-130	4		20
1,2,4-Trichlorobenzene	88		91		70-130	3		20
1,3,5-Trimethylbenzene	86		84		64-130	2		20
1,2,4-Trimethylbenzene	85		84		70-130	1		20
Methyl Acetate	80		88		70-130	10		20
Ethyl Acetate	72		77		70-130	7		20
Cyclohexane	94		93		70-130	1		20
Ethyl-Tert-Butyl-Ether	91		94		70-130	3		20
Tertiary-Amyl Methyl Ether	99		101		66-130	2		20
1,4-Dioxane	104		99		56-162	5		20
Freon-113	108		102		70-130	6		20
p-Diethylbenzene	86		85		70-130	1		20
p-Ethyltoluene	87		85		70-130	2		20
1,2,4,5-Tetramethylbenzene	84		84		70-130	0		20
Ethyl ether	50	Q	51	Q	59-134	2		20
trans-1,4-Dichloro-2-butene	65	Q	66	Q	70-130	2		20
Iodomethane	190	Q	197	Q	70-130	4		20

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** COYNE TEXTILE SERVICES-MW INST**Lab Number:** L1517051**Project Number:** 21.0056730.40**Report Date:** 07/23/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG805383-1 WG805383-2								
Methyl cyclohexane	107		103		70-130	4		20

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
1,2-Dichloroethane-d4	83		83		70-130
Toluene-d8	97		96		70-130
4-Bromofluorobenzene	96		95		70-130
Dibromofluoromethane	107		109		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST**Lab Number:** L1517051**Project Number:** 21.0056730.40**Report Date:** 07/23/15**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

**Cooler Information Custody Seal****Cooler**

A Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1517051-01A	Vial HCl preserved	A	N/A	5.2	Y	Absent	NYTCL-8260(14)
L1517051-01B	Vial HCl preserved	A	N/A	5.2	Y	Absent	NYTCL-8260(14)
L1517051-01C	Vial HCl preserved	A	N/A	5.2	Y	Absent	NYTCL-8260(14)
L1517051-02A	Vial HCl preserved	A	N/A	5.2	Y	Absent	NYTCL-8260(14)
L1517051-02B	Vial HCl preserved	A	N/A	5.2	Y	Absent	NYTCL-8260(14)
L1517051-02C	Vial HCl preserved	A	N/A	5.2	Y	Absent	NYTCL-8260(14)
L1517051-03A	Vial HCl preserved	A	N/A	5.2	Y	Absent	NYTCL-8260(14)
L1517051-03B	Vial HCl preserved	A	N/A	5.2	Y	Absent	NYTCL-8260(14)
L1517051-03C	Vial HCl preserved	A	N/A	5.2	Y	Absent	NYTCL-8260(14)
L1517051-04A	Vial HCl preserved	A	N/A	5.2	Y	Absent	NYTCL-8260(14)
L1517051-04B	Vial HCl preserved	A	N/A	5.2	Y	Absent	NYTCL-8260(14)

\*Values in parentheses indicate holding time in days

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517051  
**Report Date:** 07/23/15

## 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.
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).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517051  
**Report Date:** 07/23/15

#### Data Qualifiers

- 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.

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517051  
**Report Date:** 07/23/15

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

## 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

Last revised December 16, 2014

**The following analytes are not included in our NELAP Scope of Accreditation:**

### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**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.

**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,Tl; **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,Tl,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.



**NEW YORK CHAIN OF CUSTODY**

Westborough, MA 01581  
8 Walkup Dr.  
TEL: 508-898-9220  
FAX: 508-898-9193

Mansfield, MA 02048  
320 Forbes Blvd  
TEL: 508-822-9300  
FAX: 508-822-3288

**Service Centers**

Mahwah, NJ 07430: 35 Whitney Rd, Suite 5  
Albany, NY 12205: 14 Walker Way  
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page

of

Date Rec'd in Lab

7/23/15

ALPHA Job #

11519051

**Project Information**

Project Name: Cayne Textile Services - MW Installation

Project Location: 140 Cortland Ave., Syracuse, NY 13202

Project # 21.0056730.40

(Use Project name as Project #)

Project Manager: Tom Babin

ALPHAQuote #:

**Turn-Around Time**

Standard

Due Date: 7/23/15

Rush (only if pre approved)  vars only # of Days: 1

**Deliverables**

- ASP-A
- ASP-B
- EQUIS (1 File)
- EQUIS (4 File)
- Other

**Billing Information**

Same as Client Info

PO #

**Client Information**

Client: GZA GeoEnvironmental

Address: 535 Washington St 11th Floor  
Buffalo, NY, 14203

Phone: 716-685-2300

Fax: 716-685-3029

Email: thomas.babin@gza.com

**Regulatory Requirement**

- NY TOGS
- NY Part 375
- AWQ Standards
- NY CP-51
- NY Restricted Use
- Other
- NY Unrestricted Use
- NYC Sewer Discharge

**Disposal Site Information**

Please identify below location of applicable disposal facilities.

Disposal Facility:

- NJ
- NY
- Other:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

**ANALYSIS**

NOT	6266	Dissolved	Total Organic Carbon	Total Fe	Alkalinity	Sulfate	Nitrate
		Phase	DOC	mg/L	mg/L	mg/L	mg/L
		176	0.060	6010	300.1	300	353.2

**Sample Filtration**

- Done
- Lab to do
- Preservation**
- Lab to do

(Please Specify below)

Sample Specific Comments

Total Bottles

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS								
		Date	Time			NOT	Dissolved Phase	Total Organic Carbon	Total Fe	Alkalinity	Sulfate	Nitrate		
17051-01	MW-7A-72215	7/22/15	1225	Aggravated	PCF	X	X	X	X	X	X	X	X	
02	MW-7B-72215	↓	1455	↓	PCF	X	X	X	X	X	X	X		
03	MW-7C-72215	↓	1645	↓	PCF	X	X	X	X	X	X	X		
04	Trip Blank-008-72215			↓		X								

**Preservative Code:**

- A = None
- B = HCl
- C = HNO<sub>3</sub>
- D = H<sub>2</sub>SO<sub>4</sub>
- E = NaOH
- F = MeOH
- G = NaHSO<sub>4</sub>
- H = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>
- K/E = Zn Ac/NaOH
- O = Other

**Container Code**

- P = Plastic
- A = Amber Glass
- V = Vial
- G = Glass
- B = Bacteria Cup
- C = Cube
- O = Other
- E = Encore
- D = BOD Bottle

Westboro: Certification No: MA935

Mansfield: Certification No: MA015

Container Type

V V V P P P P

Preservative

B B D C O A A

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Relinquished By:	Date/Time	Received By:	Date/Time
<u>[Signature]</u>	<u>7/22/15 1900</u>	<u>[Signature]</u>	<u>7/22/15 1900</u>
<u>[Signature]</u>	<u>7/22/15 0050</u>	<u>[Signature]</u>	<u>7/23/15 0052</u>
<u>[Signature]</u>	<u>7/23/15 0053</u>	<u>[Signature]</u>	<u>7/23/15 0333</u>



## ANALYTICAL REPORT

Lab Number:	L1517227
Client:	The Palmerton Group 535 Washington Street 11th Floor Buffalo, NY 14203
ATTN:	Thomas Bohlen
Phone:	(716) 844-7050
Project Name:	COYNE TEXTILE SERVICES-MW INST
Project Number:	21.0056730.40
Report Date:	07/24/15

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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).

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508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517227  
**Report Date:** 07/24/15

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1517227-01	MW-6B-72315	WATER	140 CORTLAND AVE, SYRACUSE, NY 13202	07/23/15 10:25	07/23/15
L1517227-02	MW-6C-72315	WATER	140 CORTLAND AVE, SYRACUSE, NY 13202	07/23/15 12:50	07/23/15
L1517227-03	EQUIPMENT BLANK-001	WATER	140 CORTLAND AVE, SYRACUSE, NY 13202	07/23/15 14:55	07/23/15
L1517227-04	TRIP BLANK-009-72315	WATER	140 CORTLAND AVE, SYRACUSE, NY 13202	07/23/15 00:00	07/23/15

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517227  
**Report Date:** 07/24/15

### 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 all of the requirements of NELAC, for all NELAC accredited parameters. 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.

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**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517227  
**Report Date:** 07/24/15

### Case Narrative (continued)

#### Report Submission

This report contains the results of the Volatile Organics analysis. The results of all other analyses will be issued under separate cover.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Volatile Organics

L1517227-02: The sample has elevated detection limits due to the dilution required by the sample matrix (foam).

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:



Michelle M. Morris

Title: Technical Director/Representative

Date: 07/24/15

# ORGANICS

# VOLATILES

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517227  
**Report Date:** 07/24/15

**SAMPLE RESULTS**

Lab ID: L1517227-01 D  
 Client ID: MW-6B-72315  
 Sample Location: 140 CORTLAND AVE, SYRACUSE, NY 13202  
 Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 07/24/15 11:28  
 Analyst: PD

Date Collected: 07/23/15 10:25  
 Date Received: 07/23/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	120	35.	50
1,1-Dichloroethane	ND		ug/l	120	35.	50
Chloroform	ND		ug/l	120	35.	50
Carbon tetrachloride	ND		ug/l	25	6.7	50
1,2-Dichloropropane	ND		ug/l	50	6.6	50
Dibromochloromethane	ND		ug/l	25	7.4	50
1,1,2-Trichloroethane	ND		ug/l	75	25.	50
Tetrachloroethene	27		ug/l	25	9.0	50
Chlorobenzene	ND		ug/l	120	35.	50
Trichlorofluoromethane	ND		ug/l	120	35.	50
1,2-Dichloroethane	ND		ug/l	25	6.6	50
1,1,1-Trichloroethane	ND		ug/l	120	35.	50
Bromodichloromethane	ND		ug/l	25	9.6	50
trans-1,3-Dichloropropene	ND		ug/l	25	8.2	50
cis-1,3-Dichloropropene	ND		ug/l	25	7.2	50
Bromoform	ND		ug/l	100	32.	50
1,1,2,2-Tetrachloroethane	ND		ug/l	25	7.2	50
Benzene	ND		ug/l	25	8.0	50
Toluene	ND		ug/l	120	35.	50
Ethylbenzene	ND		ug/l	120	35.	50
Chloromethane	ND		ug/l	120	35.	50
Bromomethane	ND		ug/l	120	35.	50
Vinyl chloride	3200		ug/l	50	3.5	50
Chloroethane	ND		ug/l	120	35.	50
1,1-Dichloroethene	15	J	ug/l	25	7.1	50
trans-1,2-Dichloroethene	150		ug/l	120	35.	50
Trichloroethene	290		ug/l	25	8.8	50
1,2-Dichlorobenzene	ND		ug/l	120	35.	50
1,3-Dichlorobenzene	ND		ug/l	120	35.	50
1,4-Dichlorobenzene	ND		ug/l	120	35.	50

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517227  
**Report Date:** 07/24/15

**SAMPLE RESULTS**

Lab ID: L1517227-01 D  
 Client ID: MW-6B-72315  
 Sample Location: 140 CORTLAND AVE, SYRACUSE, NY 13202

Date Collected: 07/23/15 10:25  
 Date Received: 07/23/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/l	120	35.	50
p/m-Xylene	ND		ug/l	120	35.	50
o-Xylene	ND		ug/l	120	35.	50
cis-1,2-Dichloroethene	5600		ug/l	120	35.	50
Styrene	ND		ug/l	120	35.	50
Dichlorodifluoromethane	ND		ug/l	250	50.	50
Acetone	ND		ug/l	250	73.	50
Carbon disulfide	ND		ug/l	250	50.	50
2-Butanone	ND		ug/l	250	97.	50
4-Methyl-2-pentanone	ND		ug/l	250	50.	50
2-Hexanone	ND		ug/l	250	50.	50
Bromochloromethane	ND		ug/l	120	35.	50
1,2-Dibromoethane	ND		ug/l	100	32.	50
n-Butylbenzene	ND		ug/l	120	35.	50
sec-Butylbenzene	ND		ug/l	120	35.	50
tert-Butylbenzene	ND		ug/l	120	35.	50
1,2-Dibromo-3-chloropropane	ND		ug/l	120	35.	50
Isopropylbenzene	ND		ug/l	120	35.	50
p-Isopropyltoluene	ND		ug/l	120	35.	50
Naphthalene	ND		ug/l	120	35.	50
n-Propylbenzene	ND		ug/l	120	35.	50
1,2,3-Trichlorobenzene	ND		ug/l	120	35.	50
1,2,4-Trichlorobenzene	ND		ug/l	120	35.	50
1,3,5-Trimethylbenzene	ND		ug/l	120	35.	50
1,2,4-Trimethylbenzene	ND		ug/l	120	35.	50
Methyl Acetate	ND		ug/l	100	12.	50
Cyclohexane	ND		ug/l	500	14.	50
1,4-Dioxane	ND		ug/l	12000	2000	50
Freon-113	ND		ug/l	120	35.	50
Methyl cyclohexane	ND		ug/l	500	20.	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	118		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	112		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517227  
**Report Date:** 07/24/15

**SAMPLE RESULTS**

Lab ID: L1517227-02 D  
 Client ID: MW-6C-72315  
 Sample Location: 140 CORTLAND AVE, SYRACUSE, NY 13202  
 Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 07/24/15 11:00  
 Analyst: PD

Date Collected: 07/23/15 12:50  
 Date Received: 07/23/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	ND		ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.3	10
Dibromochloromethane	ND		ug/l	5.0	1.5	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
Bromoform	ND		ug/l	20	6.5	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	1.4	10
Benzene	ND		ug/l	5.0	1.6	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	ND		ug/l	10	0.70	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.4	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10
1,3-Dichlorobenzene	ND		ug/l	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517227  
**Report Date:** 07/24/15

**SAMPLE RESULTS**

Lab ID: L1517227-02 D  
 Client ID: MW-6C-72315  
 Sample Location: 140 CORTLAND AVE, SYRACUSE, NY 13202

Date Collected: 07/23/15 12:50  
 Date Received: 07/23/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/l	25	7.0	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
cis-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	ND		ug/l	50	15.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	19.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
n-Butylbenzene	ND		ug/l	25	7.0	10
sec-Butylbenzene	ND		ug/l	25	7.0	10
tert-Butylbenzene	ND		ug/l	25	7.0	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Isopropylbenzene	ND		ug/l	25	7.0	10
p-Isopropyltoluene	ND		ug/l	25	7.0	10
Naphthalene	ND		ug/l	25	7.0	10
n-Propylbenzene	ND		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
1,3,5-Trimethylbenzene	ND		ug/l	25	7.0	10
1,2,4-Trimethylbenzene	ND		ug/l	25	7.0	10
Methyl Acetate	ND		ug/l	20	2.3	10
Cyclohexane	ND		ug/l	100	2.7	10
1,4-Dioxane	ND		ug/l	2500	410	10
Freon-113	ND		ug/l	25	7.0	10
Methyl cyclohexane	ND		ug/l	100	4.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	118		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	111		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517227  
**Report Date:** 07/24/15

**SAMPLE RESULTS**

**Lab ID:** L1517227-03  
**Client ID:** EQUIPMENT BLANK-001  
**Sample Location:** 140 CORTLAND AVE, SYRACUSE, NY 13202  
**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 07/24/15 10:33  
**Analyst:** PD

**Date Collected:** 07/23/15 14:55  
**Date Received:** 07/23/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517227  
**Report Date:** 07/24/15

**SAMPLE RESULTS**

**Lab ID:** L1517227-03  
**Client ID:** EQUIPMENT BLANK-001  
**Sample Location:** 140 CORTLAND AVE, SYRACUSE, NY 13202

**Date Collected:** 07/23/15 14:55  
**Date Received:** 07/23/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	6.6		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	118		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	110		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517227  
**Report Date:** 07/24/15

**SAMPLE RESULTS**

**Lab ID:** L1517227-04  
**Client ID:** TRIP BLANK-009-72315  
**Sample Location:** 140 CORTLAND AVE, SYRACUSE, NY 13202  
**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 07/24/15 10:05  
**Analyst:** PD

**Date Collected:** 07/23/15 00:00  
**Date Received:** 07/23/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517227  
**Report Date:** 07/24/15

**SAMPLE RESULTS**

**Lab ID:** L1517227-04  
**Client ID:** TRIP BLANK-009-72315  
**Sample Location:** 140 CORTLAND AVE, SYRACUSE, NY 13202

**Date Collected:** 07/23/15 00:00  
**Date Received:** 07/23/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	118		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	110		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517227  
**Report Date:** 07/24/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/24/15 09:29  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG805741-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
2-Chloroethylvinyl ether	ND		ug/l	10	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517227  
**Report Date:** 07/24/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/24/15 09:29  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG805741-3					
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylene (Total)	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene (total)	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Isopropyl Ether	ND		ug/l	2.0	0.65
tert-Butyl Alcohol	ND		ug/l	10	0.90
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Acrolein	ND		ug/l	5.0	0.63
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517227  
**Report Date:** 07/24/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/24/15 09:29  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG805741-3					
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Ethyl Acetate	ND		ug/l	10	0.70
Cyclohexane	ND		ug/l	10	0.27
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.5	0.70
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	0.28
1,4-Dioxane	ND		ug/l	250	41.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.70
1,4-Diethylbenzene	ND		ug/l	2.0	0.70
4-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Tetrahydrofuran	ND		ug/l	5.0	1.5
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Project Name: COYNE TEXTILE SERVICES-MW INST

Lab Number: L1517227

Project Number: 21.0056730.40

Report Date: 07/24/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 07/24/15 09:29  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG805741-3					
Iodomethane	ND		ug/l	5.0	5.0
Methyl cyclohexane	ND		ug/l	10	0.40

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	117		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	111		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517227  
**Report Date:** 07/24/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG805741-1 WG805741-2								
Methylene chloride	105		102		70-130	3		20
1,1-Dichloroethane	129		123		70-130	5		20
Chloroform	126		120		70-130	5		20
2-Chloroethylvinyl ether	61	Q	68	Q	70-130	11		20
Carbon tetrachloride	106		101		63-132	5		20
1,2-Dichloropropane	120		115		70-130	4		20
Dibromochloromethane	106		104		63-130	2		20
1,1,2-Trichloroethane	118		117		70-130	1		20
Tetrachloroethene	102		98		70-130	4		20
Chlorobenzene	107		101		75-130	6		20
Trichlorofluoromethane	156	Q	148		62-150	5		20
1,2-Dichloroethane	114		110		70-130	4		20
1,1,1-Trichloroethane	113		108		67-130	5		20
Bromodichloromethane	109		105		67-130	4		20
trans-1,3-Dichloropropene	108		106		70-130	2		20
cis-1,3-Dichloropropene	98		95		70-130	3		20
1,1-Dichloropropene	110		106		70-130	4		20
Bromoform	99		97		54-136	2		20
1,1,2,2-Tetrachloroethane	106		105		67-130	1		20
Benzene	118		112		70-130	5		20
Toluene	120		114		70-130	5		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517227  
**Report Date:** 07/24/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG805741-1 WG805741-2								
Ethylbenzene	112		106		70-130	6		20
Chloromethane	78		72		64-130	8		20
Bromomethane	100		87		39-139	14		20
Vinyl chloride	109		103		55-140	6		20
Chloroethane	118		108		55-138	9		20
1,1-Dichloroethene	118		114		61-145	3		20
trans-1,2-Dichloroethene	115		111		70-130	4		20
Trichloroethene	113		108		70-130	5		20
1,2-Dichlorobenzene	95		93		70-130	2		20
1,3-Dichlorobenzene	100		99		70-130	1		20
1,4-Dichlorobenzene	102		100		70-130	2		20
Methyl tert butyl ether	102		102		63-130	0		20
p/m-Xylene	109		104		70-130	5		20
o-Xylene	103		97		70-130	6		20
cis-1,2-Dichloroethene	116		110		70-130	5		20
Dibromomethane	104		103		70-130	1		20
1,2,3-Trichloropropane	124		122		64-130	2		20
Acrylonitrile	126		122		70-130	3		20
Diisopropyl Ether	131	Q	129		70-130	2		20
Tert-Butyl Alcohol	92		88		70-130	4		20
Styrene	106		101		70-130	5		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517227  
**Report Date:** 07/24/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG805741-1 WG805741-2								
Dichlorodifluoromethane	78		75		36-147	4		20
Acetone	120		129		58-148	7		20
Carbon disulfide	110		104		51-130	6		20
2-Butanone	<b>148</b>	Q	<b>147</b>	Q	63-138	1		20
Vinyl acetate	85		87		70-130	2		20
4-Methyl-2-pentanone	89		89		59-130	0		20
2-Hexanone	94		94		57-130	0		20
Acrolein	101		103		40-160	2		20
Bromochloromethane	112		108		70-130	4		20
2,2-Dichloropropane	102		95		63-133	7		20
1,2-Dibromoethane	99		98		70-130	1		20
1,3-Dichloropropane	115		113		70-130	2		20
1,1,1,2-Tetrachloroethane	114		108		64-130	5		20
Bromobenzene	91		88		70-130	3		20
n-Butylbenzene	116		121		53-136	4		20
sec-Butylbenzene	102		102		70-130	0		20
tert-Butylbenzene	92		91		70-130	1		20
o-Chlorotoluene	116		112		70-130	4		20
p-Chlorotoluene	105		102		70-130	3		20
1,2-Dibromo-3-chloropropane	104		104		41-144	0		20
Hexachlorobutadiene	99		103		63-130	4		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517227  
**Report Date:** 07/24/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG805741-1 WG805741-2								
Isopropylbenzene	97		94		70-130	3		20
p-Isopropyltoluene	102		103		70-130	1		20
Naphthalene	82		84		70-130	2		20
n-Propylbenzene	106		103		69-130	3		20
1,2,3-Trichlorobenzene	97		99		70-130	2		20
1,2,4-Trichlorobenzene	107		106		70-130	1		20
1,3,5-Trimethylbenzene	111		110		64-130	1		20
1,2,4-Trimethylbenzene	103		102		70-130	1		20
Methyl Acetate	125		130		70-130	4		20
Ethyl Acetate	120		121		70-130	1		20
Cyclohexane	122		119		70-130	2		20
Ethyl-Tert-Butyl-Ether	106		106		70-130	0		20
Tertiary-Amyl Methyl Ether	90		89		66-130	1		20
1,4-Dioxane	116		105		56-162	10		20
Freon-113	123		118		70-130	4		20
p-Diethylbenzene	100		105		70-130	5		20
p-Ethyltoluene	105		101		70-130	4		20
1,2,4,5-Tetramethylbenzene	105		104		70-130	1		20
Ethyl ether	139	Q	138	Q	59-134	1		20
trans-1,4-Dichloro-2-butene	93		91		70-130	2		20
Iodomethane	15	Q	28	Q	70-130	60	Q	20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517227  
**Report Date:** 07/24/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG805741-1 WG805741-2								
Methyl cyclohexane	107		105		70-130	2		20

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
1,2-Dichloroethane-d4	107		108		70-130
Toluene-d8	117		117		70-130
4-Bromofluorobenzene	95		96		70-130
Dibromofluoromethane	112		112		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517227  
**Report Date:** 07/24/15

### Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

#### Cooler Information Custody Seal

##### Cooler

A Absent

#### Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1517227-01A	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1517227-01B	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1517227-01C	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1517227-02A	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1517227-02B	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1517227-02C	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1517227-03A	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1517227-03B	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1517227-03C	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1517227-04A	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1517227-04B	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)

#### Container Comments

L1517227-01B

L1517227-02B

\*Values in parentheses indicate holding time in days

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517227  
**Report Date:** 07/24/15

## 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.
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).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517227  
**Report Date:** 07/24/15

#### Data Qualifiers

- 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.

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517227  
**Report Date:** 07/24/15

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

## 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

Last revised December 16, 2014

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**The following analytes are not included in our NELAP Scope of Accreditation:**

### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**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.

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**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,Tl; **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,Tl,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.**

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For a complete listing of analytes and methods, please contact your Alpha Project Manager.



**NEW YORK CHAIN OF CUSTODY**

Westborough, MA 01581  
8 Walkup Dr.  
TEL: 508-898-9220  
FAX: 508-898-9193

Mansfield, MA 02048  
320 Forbes Blvd  
TEL: 508-822-9300  
FAX: 508-822-3288

**Service Centers**  
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5  
Albany, NY 12205: 14 Walker Way  
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page \_\_\_\_\_ of \_\_\_\_\_

Date Rec'd in Lab 7/24/15

ALPHA Job # L1517227

<b>Project Information</b>		<b>Deliverables</b>		<b>Billing Information</b>	
Project Name: <u>Cayne Textile Services - MW Installation</u>		<input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B		<input type="checkbox"/> Same as Client Info	
Project Location: <u>140 Cortland Ave. Syracuse, NY 13202</u>		<input type="checkbox"/> EQUiS (1 File) <input checked="" type="checkbox"/> EQUiS (4 File)		PO # _____	
Project # <u>21.005673040</u>		<input type="checkbox"/> Other			
Client Information		<b>Regulatory Requirement</b>		<b>Disposal Site Information</b>	
Client: <u>GA Green Environmental</u>		<input checked="" type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375		Please identify below location of applicable disposal facilities.	
Address: <u>535 Washington St 11th Floor Buffalo, NY 14203</u>		<input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51		Disposal Facility: _____	
Project Manager: <u>Tom Bohlen</u>		<input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other		<input type="checkbox"/> NJ <input type="checkbox"/> NY	
Project Manager: <u>Tom Bohlen</u>		<input type="checkbox"/> NY Unrestricted Use		<input type="checkbox"/> Other: _____	
ALPHAQuote #:		<input type="checkbox"/> NYC Sewer Discharge			
Turn-Around Time					
Standard <input type="checkbox"/> Due Date: <u>7/24/15</u>					
Rush (only if pre approved) <input checked="" type="checkbox"/> VOCs ONLY # of Days: <u>1</u>					

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS										Sample Filtration	
VOC 8260	Dissolved Gases PSE 125	Total organic Carbon: 9266	Total Fe & Mn-600	Alkalinity-310.1	Sulfate-300	Nitrate-353.2	<input type="checkbox"/> Done		Total Bottles		
							<input type="checkbox"/> Lab to do				
							<input type="checkbox"/> Preservation				
							<input type="checkbox"/> Lab to do				
							(Please Specify below)				
										Sample Specific Comments	

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS							Sample Specific Comments
		Date	Time			VOC 8260	Dissolved Gases PSE 125	Total organic Carbon: 9266	Total Fe & Mn-600	Alkalinity-310.1	Sulfate-300	Nitrate-353.2	
17227-01	MW-6B-72315	7/23/15	1025	Aqueous	PCF	X	X	X	X	X	X	X	
-02	MW-6C-72315	7/23/15	1250	↓	PCF	X	X	X	X	X	X	X	
-03	Equipment Blank-001	7/23/15	1455	↓	PCF	X	X	X	X	X	X	X	
-04	Trip Blank-009-72315	7/23/15		↓		X							

Preservative Code:  
A = None  
B = HCl  
C = HNO<sub>3</sub>  
D = H<sub>2</sub>SO<sub>4</sub>  
E = NaOH  
F = MeOH  
G = NaHSO<sub>4</sub>  
H = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
K/E = Zn Ac/NaOH  
O = Other

Container Code  
P = Plastic  
A = Amber Glass  
V = Vial  
G = Glass  
B = Bacteria Cup  
C = Cube  
O = Other  
E = Encore  
D = BOD Bottle

Westboro: Certification No: MA935  
Mansfield: Certification No: MA015

Container Type	V	V	V	P	P	P	P
Preservative	B	B	D	C	O	A	A

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Relinquished By:	Date/Time	Received By:	Date/Time
<u>Patrick Finnerty</u>	<u>7/23/15 1615</u>	<u>Thomas AAL</u>	<u>7/23/15 1615</u>
<u>Thomas AAL</u>	<u>7/23/15 2000</u>	<u>Tom Bohlen</u>	<u>7/23/15 1840</u>
<u>Tom Bohlen</u>	<u>7/23/15 2000</u>	<u>Jim Conroy</u>	<u>7/23/15 2200</u>
<u>Jim Conroy</u>	<u>7/24/15 01:20</u>	<u>all</u>	<u>7/24/15 01:20</u>



## ANALYTICAL REPORT

Lab Number:	L1515519
Client:	The Palmerton Group 535 Washington Street 11th Floor Buffalo, NY 14203
ATTN:	Thomas Bohlen
Phone:	(716) 844-7050
Project Name:	COYNE TEXTILE SERV.-MW INSTALL
Project Number:	21.0056730.40
Report Date:	07/08/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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).

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1515519-01	MW-4-4-6-7715	SOIL	SYRACUSE, NY 13202	07/07/15 10:40	07/07/15
L1515519-02	MW-4-8-10-7715	SOIL	SYRACUSE, NY 13202	07/07/15 10:55	07/07/15
L1515519-03	MW-4-14-16-7715	SOIL	SYRACUSE, NY 13202	07/07/15 11:20	07/07/15
L1515519-04	MW-4-18-20-7715	SOIL	SYRACUSE, NY 13202	07/07/15 11:30	07/07/15
L1515519-05	MW-4-22-24-7715	SOIL	SYRACUSE, NY 13202	07/07/15 11:45	07/07/15
L1515519-06	TRIP BLANK-001-7715	WATER	SYRACUSE, NY 13202	07/07/15 00:00	07/07/15

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

### 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 all of the requirements of NELAC, for all NELAC accredited parameters. 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.

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**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

### 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.

#### Volatile Organics

L1515519-05: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (36%) and the surrogate recovery for 4-bromofluorobenzene (138%) were outside the acceptance criteria; however, re-analysis achieved a similar result for 1,4-dichlorobenzene-d4 (43%) and had acceptable surrogate recoveries. The results of both analyses are 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:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 07/08/15

# ORGANICS

# VOLATILES

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

**SAMPLE RESULTS**

**Lab ID:** L1515519-01  
**Client ID:** MW-4-4-6-7715  
**Sample Location:** SYRACUSE, NY 13202  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 07/08/15 11:55  
**Analyst:** BN  
**Percent Solids:** 71%

**Date Collected:** 07/07/15 10:40  
**Date Received:** 07/07/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	14	1.6	1
1,1-Dichloroethane	ND		ug/kg	2.1	0.12	1
Chloroform	ND		ug/kg	2.1	0.52	1
Carbon tetrachloride	ND		ug/kg	1.4	0.29	1
1,2-Dichloropropane	ND		ug/kg	4.9	0.32	1
Dibromochloromethane	ND		ug/kg	1.4	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	2.1	0.43	1
Tetrachloroethene	79		ug/kg	1.4	0.20	1
Chlorobenzene	ND		ug/kg	1.4	0.49	1
Trichlorofluoromethane	ND		ug/kg	7.0	0.54	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.16	1
Bromodichloromethane	ND		ug/kg	1.4	0.24	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.17	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.16	1
Bromoform	ND		ug/kg	5.6	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.14	1
Benzene	ND		ug/kg	1.4	0.16	1
Toluene	ND		ug/kg	2.1	0.27	1
Ethylbenzene	ND		ug/kg	1.4	0.18	1
Chloromethane	ND		ug/kg	7.0	0.41	1
Bromomethane	ND		ug/kg	2.8	0.47	1
Vinyl chloride	ND		ug/kg	2.8	0.16	1
Chloroethane	ND		ug/kg	2.8	0.44	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.37	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.30	1
Trichloroethene	2.0		ug/kg	1.4	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	7.0	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	7.0	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	7.0	0.19	1

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

**SAMPLE RESULTS**

**Lab ID:** L1515519-01  
**Client ID:** MW-4-4-6-7715  
**Sample Location:** SYRACUSE, NY 13202

**Date Collected:** 07/07/15 10:40  
**Date Received:** 07/07/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	2.8	0.12	1
p/m-Xylene	ND		ug/kg	2.8	0.28	1
o-Xylene	ND		ug/kg	2.8	0.24	1
cis-1,2-Dichloroethene	1.7		ug/kg	1.4	0.20	1
Styrene	ND		ug/kg	2.8	0.56	1
Dichlorodifluoromethane	ND		ug/kg	14	0.27	1
Acetone	ND		ug/kg	14	1.4	1
Carbon disulfide	ND		ug/kg	14	1.5	1
2-Butanone	ND		ug/kg	14	0.38	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.34	1
2-Hexanone	ND		ug/kg	14	0.94	1
Bromochloromethane	ND		ug/kg	7.0	0.39	1
1,2-Dibromoethane	ND		ug/kg	5.6	0.24	1
n-Butylbenzene	ND		ug/kg	1.4	0.16	1
sec-Butylbenzene	ND		ug/kg	1.4	0.17	1
tert-Butylbenzene	ND		ug/kg	7.0	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.0	0.56	1
Isopropylbenzene	ND		ug/kg	1.4	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.18	1
Naphthalene	ND		ug/kg	7.0	0.19	1
n-Propylbenzene	ND		ug/kg	1.4	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.0	0.21	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.0	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.0	0.20	1
Methyl Acetate	ND		ug/kg	28	0.38	1
Cyclohexane	ND		ug/kg	28	0.20	1
1,4-Dioxane	ND		ug/kg	140	20.	1
Freon-113	ND		ug/kg	28	0.38	1
Methyl cyclohexane	ND		ug/kg	5.6	0.22	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	110		70-130

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

**SAMPLE RESULTS**

**Lab ID:** L1515519-02  
**Client ID:** MW-4-8-10-7715  
**Sample Location:** SYRACUSE, NY 13202  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 07/08/15 12:25  
**Analyst:** BN  
**Percent Solids:** 70%

**Date Collected:** 07/07/15 10:55  
**Date Received:** 07/07/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	14	1.6	1
1,1-Dichloroethane	ND		ug/kg	2.1	0.12	1
Chloroform	ND		ug/kg	2.1	0.53	1
Carbon tetrachloride	ND		ug/kg	1.4	0.30	1
1,2-Dichloropropane	ND		ug/kg	5.0	0.32	1
Dibromochloromethane	ND		ug/kg	1.4	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	2.1	0.43	1
Tetrachloroethene	1.3	J	ug/kg	1.4	0.20	1
Chlorobenzene	ND		ug/kg	1.4	0.50	1
Trichlorofluoromethane	ND		ug/kg	7.1	0.55	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.16	1
Bromodichloromethane	ND		ug/kg	1.4	0.25	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.17	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.17	1
Bromoform	ND		ug/kg	5.7	0.34	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.14	1
Benzene	ND		ug/kg	1.4	0.17	1
Toluene	ND		ug/kg	2.1	0.28	1
Ethylbenzene	ND		ug/kg	1.4	0.18	1
Chloromethane	ND		ug/kg	7.1	0.42	1
Bromomethane	ND		ug/kg	2.8	0.48	1
Vinyl chloride	ND		ug/kg	2.8	0.17	1
Chloroethane	ND		ug/kg	2.8	0.45	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.37	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.30	1
Trichloroethene	ND		ug/kg	1.4	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	7.1	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	7.1	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	7.1	0.20	1

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

**SAMPLE RESULTS**

**Lab ID:** L1515519-02  
**Client ID:** MW-4-8-10-7715  
**Sample Location:** SYRACUSE, NY 13202

**Date Collected:** 07/07/15 10:55  
**Date Received:** 07/07/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	2.8	0.12	1
p/m-Xylene	ND		ug/kg	2.8	0.28	1
o-Xylene	ND		ug/kg	2.8	0.24	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.20	1
Styrene	ND		ug/kg	2.8	0.57	1
Dichlorodifluoromethane	ND		ug/kg	14	0.27	1
Acetone	26		ug/kg	14	1.5	1
Carbon disulfide	ND		ug/kg	14	1.6	1
2-Butanone	5.6	J	ug/kg	14	0.39	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.35	1
2-Hexanone	ND		ug/kg	14	0.95	1
Bromochloromethane	ND		ug/kg	7.1	0.39	1
1,2-Dibromoethane	ND		ug/kg	5.7	0.25	1
n-Butylbenzene	ND		ug/kg	1.4	0.16	1
sec-Butylbenzene	ND		ug/kg	1.4	0.17	1
tert-Butylbenzene	ND		ug/kg	7.1	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.1	0.56	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.18	1
Naphthalene	0.67	J	ug/kg	7.1	0.20	1
n-Propylbenzene	ND		ug/kg	1.4	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.1	0.21	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.1	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.1	0.20	1
Methyl Acetate	ND		ug/kg	28	0.38	1
Cyclohexane	ND		ug/kg	28	0.21	1
1,4-Dioxane	ND		ug/kg	140	20.	1
Freon-113	ND		ug/kg	28	0.39	1
Methyl cyclohexane	ND		ug/kg	5.7	0.22	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	108		70-130

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

**SAMPLE RESULTS**

**Lab ID:** L1515519-03  
**Client ID:** MW-4-14-16-7715  
**Sample Location:** SYRACUSE, NY 13202  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 07/08/15 12:55  
**Analyst:** BN  
**Percent Solids:** 60%

**Date Collected:** 07/07/15 11:20  
**Date Received:** 07/07/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	16	1.8	1
1,1-Dichloroethane	ND		ug/kg	2.5	0.14	1
Chloroform	ND		ug/kg	2.5	0.61	1
Carbon tetrachloride	ND		ug/kg	1.6	0.35	1
1,2-Dichloropropane	ND		ug/kg	5.8	0.38	1
Dibromochloromethane	ND		ug/kg	1.6	0.25	1
1,1,2-Trichloroethane	ND		ug/kg	2.5	0.50	1
Tetrachloroethene	ND		ug/kg	1.6	0.23	1
Chlorobenzene	ND		ug/kg	1.6	0.58	1
Trichlorofluoromethane	ND		ug/kg	8.3	0.64	1
1,2-Dichloroethane	ND		ug/kg	1.6	0.19	1
1,1,1-Trichloroethane	ND		ug/kg	1.6	0.18	1
Bromodichloromethane	ND		ug/kg	1.6	0.29	1
trans-1,3-Dichloropropene	ND		ug/kg	1.6	0.20	1
cis-1,3-Dichloropropene	ND		ug/kg	1.6	0.19	1
Bromoform	ND		ug/kg	6.6	0.39	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.6	0.17	1
Benzene	ND		ug/kg	1.6	0.20	1
Toluene	ND		ug/kg	2.5	0.32	1
Ethylbenzene	ND		ug/kg	1.6	0.21	1
Chloromethane	ND		ug/kg	8.3	0.49	1
Bromomethane	ND		ug/kg	3.3	0.56	1
Vinyl chloride	ND		ug/kg	3.3	0.19	1
Chloroethane	ND		ug/kg	3.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.6	0.43	1
trans-1,2-Dichloroethene	ND		ug/kg	2.5	0.35	1
Trichloroethene	ND		ug/kg	1.6	0.21	1
1,2-Dichlorobenzene	ND		ug/kg	8.3	0.25	1
1,3-Dichlorobenzene	ND		ug/kg	8.3	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	8.3	0.23	1

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

**SAMPLE RESULTS**

**Lab ID:** L1515519-03  
**Client ID:** MW-4-14-16-7715  
**Sample Location:** SYRACUSE, NY 13202

**Date Collected:** 07/07/15 11:20  
**Date Received:** 07/07/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	3.3	0.14	1
p/m-Xylene	ND		ug/kg	3.3	0.33	1
o-Xylene	ND		ug/kg	3.3	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	1.6	0.24	1
Styrene	ND		ug/kg	3.3	0.66	1
Dichlorodifluoromethane	ND		ug/kg	16	0.32	1
Acetone	18		ug/kg	16	1.7	1
Carbon disulfide	ND		ug/kg	16	1.8	1
2-Butanone	ND		ug/kg	16	0.45	1
4-Methyl-2-pentanone	ND		ug/kg	16	0.40	1
2-Hexanone	ND		ug/kg	16	1.1	1
Bromochloromethane	ND		ug/kg	8.3	0.46	1
1,2-Dibromoethane	ND		ug/kg	6.6	0.29	1
n-Butylbenzene	ND		ug/kg	1.6	0.19	1
sec-Butylbenzene	ND		ug/kg	1.6	0.20	1
tert-Butylbenzene	ND		ug/kg	8.3	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	8.3	0.66	1
Isopropylbenzene	ND		ug/kg	1.6	0.17	1
p-Isopropyltoluene	ND		ug/kg	1.6	0.21	1
Naphthalene	ND		ug/kg	8.3	0.23	1
n-Propylbenzene	ND		ug/kg	1.6	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	8.3	0.24	1
1,2,4-Trichlorobenzene	ND		ug/kg	8.3	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	8.3	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	8.3	0.23	1
Methyl Acetate	ND		ug/kg	33	0.45	1
Cyclohexane	ND		ug/kg	33	0.24	1
1,4-Dioxane	ND		ug/kg	160	24.	1
Freon-113	ND		ug/kg	33	0.45	1
Methyl cyclohexane	ND		ug/kg	6.6	0.26	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	109		70-130

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

**SAMPLE RESULTS**

**Lab ID:** L1515519-04  
**Client ID:** MW-4-18-20-7715  
**Sample Location:** SYRACUSE, NY 13202  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 07/08/15 13:27  
**Analyst:** BN  
**Percent Solids:** 90%

**Date Collected:** 07/07/15 11:30  
**Date Received:** 07/07/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.10	1
Chloroform	ND		ug/kg	1.7	0.41	1
Carbon tetrachloride	ND		ug/kg	1.1	0.23	1
1,2-Dichloropropane	ND		ug/kg	3.9	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.34	1
Tetrachloroethene	2.7		ug/kg	1.1	0.16	1
Chlorobenzene	ND		ug/kg	1.1	0.39	1
Trichlorofluoromethane	ND		ug/kg	5.6	0.43	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.13	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
Bromoform	ND		ug/kg	4.4	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	1.6		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Chloromethane	ND		ug/kg	5.6	0.33	1
Bromomethane	ND		ug/kg	2.2	0.38	1
Vinyl chloride	ND		ug/kg	2.2	0.13	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	0.69	J	ug/kg	1.1	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	5.6	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	5.6	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	5.6	0.15	1

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

**SAMPLE RESULTS**

**Lab ID:** L1515519-04  
**Client ID:** MW-4-18-20-7715  
**Sample Location:** SYRACUSE, NY 13202

**Date Collected:** 07/07/15 11:30  
**Date Received:** 07/07/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	2.2	0.09	1
p/m-Xylene	ND		ug/kg	2.2	0.22	1
o-Xylene	ND		ug/kg	2.2	0.19	1
cis-1,2-Dichloroethene	0.60	J	ug/kg	1.1	0.16	1
Styrene	ND		ug/kg	2.2	0.45	1
Dichlorodifluoromethane	ND		ug/kg	11	0.21	1
Acetone	2.8	J	ug/kg	11	1.2	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.30	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
2-Hexanone	ND		ug/kg	11	0.74	1
Bromochloromethane	ND		ug/kg	5.6	0.31	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.19	1
n-Butylbenzene	ND		ug/kg	1.1	0.13	1
sec-Butylbenzene	ND		ug/kg	1.1	0.14	1
tert-Butylbenzene	ND		ug/kg	5.6	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.6	0.44	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.14	1
Naphthalene	ND		ug/kg	5.6	0.15	1
n-Propylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.6	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.6	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.6	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.6	0.16	1
Methyl Acetate	ND		ug/kg	22	0.30	1
Cyclohexane	ND		ug/kg	22	0.16	1
1,4-Dioxane	ND		ug/kg	110	16.	1
Freon-113	ND		ug/kg	22	0.30	1
Methyl cyclohexane	ND		ug/kg	4.4	0.17	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	106		70-130

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

**SAMPLE RESULTS**

Lab ID: L1515519-05  
 Client ID: MW-4-22-24-7715  
 Sample Location: SYRACUSE, NY 13202  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/08/15 14:01  
 Analyst: BN  
 Percent Solids: 80%

Date Collected: 07/07/15 11:45  
 Date Received: 07/07/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	12	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.11	1
Chloroform	ND		ug/kg	1.9	0.46	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.4	0.29	1
Dibromochloromethane	ND		ug/kg	1.2	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.38	1
Tetrachloroethene	ND		ug/kg	1.2	0.18	1
Chlorobenzene	ND		ug/kg	1.2	0.44	1
Trichlorofluoromethane	ND		ug/kg	6.3	0.49	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.14	1
Bromodichloromethane	ND		ug/kg	1.2	0.22	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
Bromoform	ND		ug/kg	5.0	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.13	1
Benzene	ND		ug/kg	1.2	0.15	1
Toluene	ND		ug/kg	1.9	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	6.3	0.37	1
Bromomethane	ND		ug/kg	2.5	0.42	1
Vinyl chloride	1.9	J	ug/kg	2.5	0.15	1
Chloroethane	ND		ug/kg	2.5	0.40	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.26	1
Trichloroethene	ND		ug/kg	1.2	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	6.3	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	6.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	6.3	0.17	1

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

**SAMPLE RESULTS**

**Lab ID:** L1515519-05  
**Client ID:** MW-4-22-24-7715  
**Sample Location:** SYRACUSE, NY 13202

**Date Collected:** 07/07/15 11:45  
**Date Received:** 07/07/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	2.5	0.10	1
p/m-Xylene	ND		ug/kg	2.5	0.25	1
o-Xylene	ND		ug/kg	2.5	0.22	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.18	1
Styrene	ND		ug/kg	2.5	0.50	1
Dichlorodifluoromethane	ND		ug/kg	12	0.24	1
Acetone	1.3	J	ug/kg	12	1.3	1
Carbon disulfide	ND		ug/kg	12	1.4	1
2-Butanone	ND		ug/kg	12	0.34	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.31	1
2-Hexanone	ND		ug/kg	12	0.84	1
Bromochloromethane	ND		ug/kg	6.3	0.35	1
1,2-Dibromoethane	ND		ug/kg	5.0	0.22	1
n-Butylbenzene	ND		ug/kg	1.2	0.14	1
sec-Butylbenzene	ND		ug/kg	1.2	0.15	1
tert-Butylbenzene	ND		ug/kg	6.3	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.3	0.50	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.16	1
Naphthalene	ND		ug/kg	6.3	0.17	1
n-Propylbenzene	ND		ug/kg	1.2	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.3	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.3	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.3	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.3	0.18	1
Methyl Acetate	ND		ug/kg	25	0.34	1
Cyclohexane	ND		ug/kg	25	0.18	1
1,4-Dioxane	ND		ug/kg	120	18.	1
Freon-113	ND		ug/kg	25	0.34	1
Methyl cyclohexane	ND		ug/kg	5.0	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	<b>138</b>	Q	70-130
Dibromofluoromethane	109		70-130

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

**SAMPLE RESULTS**

Lab ID: L1515519-05 R  
 Client ID: MW-4-22-24-7715  
 Sample Location: SYRACUSE, NY 13202  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/08/15 15:04  
 Analyst: BN  
 Percent Solids: 80%

Date Collected: 07/07/15 11:45  
 Date Received: 07/07/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	12	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.11	1
Chloroform	ND		ug/kg	1.9	0.46	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.4	0.29	1
Dibromochloromethane	ND		ug/kg	1.2	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.38	1
Tetrachloroethene	ND		ug/kg	1.2	0.18	1
Chlorobenzene	ND		ug/kg	1.2	0.44	1
Trichlorofluoromethane	ND		ug/kg	6.3	0.49	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.14	1
Bromodichloromethane	ND		ug/kg	1.2	0.22	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
Bromoform	ND		ug/kg	5.0	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.13	1
Benzene	ND		ug/kg	1.2	0.15	1
Toluene	ND		ug/kg	1.9	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	6.3	0.37	1
Bromomethane	ND		ug/kg	2.5	0.42	1
Vinyl chloride	2.1	J	ug/kg	2.5	0.15	1
Chloroethane	ND		ug/kg	2.5	0.40	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.26	1
Trichloroethene	ND		ug/kg	1.2	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	6.3	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	6.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	6.3	0.17	1

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

**SAMPLE RESULTS**

Lab ID: L1515519-05 R  
 Client ID: MW-4-22-24-7715  
 Sample Location: SYRACUSE, NY 13202

Date Collected: 07/07/15 11:45  
 Date Received: 07/07/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	2.5	0.10	1
p/m-Xylene	ND		ug/kg	2.5	0.25	1
o-Xylene	ND		ug/kg	2.5	0.22	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.18	1
Styrene	ND		ug/kg	2.5	0.50	1
Dichlorodifluoromethane	ND		ug/kg	12	0.24	1
Acetone	ND		ug/kg	12	1.3	1
Carbon disulfide	ND		ug/kg	12	1.4	1
2-Butanone	ND		ug/kg	12	0.34	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.31	1
2-Hexanone	ND		ug/kg	12	0.84	1
Bromochloromethane	ND		ug/kg	6.3	0.35	1
1,2-Dibromoethane	ND		ug/kg	5.0	0.22	1
n-Butylbenzene	ND		ug/kg	1.2	0.14	1
sec-Butylbenzene	ND		ug/kg	1.2	0.15	1
tert-Butylbenzene	ND		ug/kg	6.3	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.3	0.50	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.16	1
Naphthalene	ND		ug/kg	6.3	0.17	1
n-Propylbenzene	ND		ug/kg	1.2	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.3	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.3	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.3	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.3	0.18	1
Methyl Acetate	ND		ug/kg	25	0.34	1
Cyclohexane	ND		ug/kg	25	0.18	1
1,4-Dioxane	ND		ug/kg	120	18.	1
Freon-113	ND		ug/kg	25	0.34	1
Methyl cyclohexane	ND		ug/kg	5.0	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	130		70-130
Dibromofluoromethane	112		70-130

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

**SAMPLE RESULTS**

Lab ID: L1515519-06  
 Client ID: TRIP BLANK-001-7715  
 Sample Location: SYRACUSE, NY 13202  
 Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 07/08/15 10:55  
 Analyst: PD

Date Collected: 07/07/15 00:00  
 Date Received: 07/07/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

**SAMPLE RESULTS**

**Lab ID:** L1515519-06  
**Client ID:** TRIP BLANK-001-7715  
**Sample Location:** SYRACUSE, NY 13202

**Date Collected:** 07/07/15 00:00  
**Date Received:** 07/07/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	107		70-130

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/08/15 10:27  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG800809-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
2-Chloroethylvinyl ether	ND		ug/l	10	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/08/15 10:27  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG800809-3					
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylene (Total)	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene (total)	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Isopropyl Ether	ND		ug/l	2.0	0.65
tert-Butyl Alcohol	ND		ug/l	10	0.90
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Acrolein	ND		ug/l	5.0	0.63
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/08/15 10:27  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG800809-3					
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Ethyl Acetate	ND		ug/l	10	0.70
Cyclohexane	ND		ug/l	10	0.27
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.5	0.70
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	0.28
1,4-Dioxane	ND		ug/l	250	41.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.70
1,4-Diethylbenzene	ND		ug/l	2.0	0.70
4-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Tetrahydrofuran	ND		ug/l	5.0	1.5
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Project Name: COYNE TEXTILE SERV.-MW INSTALL

Lab Number: L1515519

Project Number: 21.0056730.40

Report Date: 07/08/15

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 07/08/15 10:27  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG800809-3					
Methyl cyclohexane	ND		ug/l	10	0.40

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	107		70-130

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/08/15 09:58  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG800852-3					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
2-Chloroethylvinyl ether	ND		ug/kg	20	0.62
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.12
1,1-Dichloropropene	ND		ug/kg	5.0	0.14
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/08/15 09:58  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG800852-3					
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.20
o-Xylene	ND		ug/kg	2.0	0.17
Xylene (Total)	ND		ug/kg	2.0	0.17
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
1,2-Dichloroethene (total)	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
Vinyl acetate	ND		ug/kg	10	0.13
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.16
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
2,2-Dichloropropane	ND		ug/kg	5.0	0.23
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,3-Dichloropropane	ND		ug/kg	5.0	0.14
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
tert-Butylbenzene	ND		ug/kg	5.0	0.14

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/08/15 09:58  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG800852-3					
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.13
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.23
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
Isopropyl Ether	ND		ug/kg	4.0	0.14
tert-Butyl Alcohol	ND		ug/kg	60	2.9
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
Methyl Acetate	ND		ug/kg	20	0.27
Ethyl Acetate	ND		ug/kg	20	0.92
Acrolein	ND		ug/kg	25	8.1
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	0.27
1,4-Diethylbenzene	ND		ug/kg	4.0	0.16
4-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Tetrahydrofuran	ND		ug/kg	20	1.0
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39
Methyl cyclohexane	ND		ug/kg	4.0	0.15
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.12

Project Name: COYNE TEXTILE SERV.-MW INSTALL

Lab Number: L1515519

Project Number: 21.0056730.40

Report Date: 07/08/15

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 07/08/15 09:58  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG800852-3					
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.10

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	105		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL

**Lab Number:** L1515519

**Project Number:** 21.0056730.40

**Report Date:** 07/08/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG800809-1 WG800809-2								
Methylene chloride	111		107		70-130	4		20
1,1-Dichloroethane	108		102		70-130	6		20
Chloroform	106		100		70-130	6		20
2-Chloroethylvinyl ether	96		93		70-130	3		20
Carbon tetrachloride	102		101		63-132	1		20
1,2-Dichloropropane	104		99		70-130	5		20
Dibromochloromethane	109		109		63-130	0		20
1,1,2-Trichloroethane	111		105		70-130	6		20
Tetrachloroethene	101		98		70-130	3		20
Chlorobenzene	102		98		75-130	4		20
Trichlorofluoromethane	94		94		62-150	0		20
1,2-Dichloroethane	102		98		70-130	4		20
1,1,1-Trichloroethane	101		99		67-130	2		20
Bromodichloromethane	102		100		67-130	2		20
trans-1,3-Dichloropropene	104		103		70-130	1		20
cis-1,3-Dichloropropene	103		99		70-130	4		20
1,1-Dichloropropene	97		94		70-130	3		20
Bromoform	100		100		54-136	0		20
1,1,2,2-Tetrachloroethane	108		107		67-130	1		20
Benzene	105		98		70-130	7		20
Toluene	108		100		70-130	8		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL

**Lab Number:** L1515519

**Project Number:** 21.0056730.40

**Report Date:** 07/08/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG800809-1 WG800809-2								
Ethylbenzene	100		94		70-130	6		20
Chloromethane	99		97		64-130	2		20
Bromomethane	111		102		39-139	8		20
Vinyl chloride	103		100		55-140	3		20
Chloroethane	94		91		55-138	3		20
1,1-Dichloroethene	107		107		61-145	0		20
trans-1,2-Dichloroethene	103		98		70-130	5		20
Trichloroethene	104		98		70-130	6		20
1,2-Dichlorobenzene	98		96		70-130	2		20
1,3-Dichlorobenzene	99		96		70-130	3		20
1,4-Dichlorobenzene	97		96		70-130	1		20
Methyl tert butyl ether	108		106		63-130	2		20
p/m-Xylene	101		96		70-130	5		20
o-Xylene	100		96		70-130	4		20
cis-1,2-Dichloroethene	104		99		70-130	5		20
Dibromomethane	105		103		70-130	2		20
1,2,3-Trichloropropane	104		103		64-130	1		20
Acrylonitrile	115		114		70-130	1		20
Diisopropyl Ether	105		102		70-130	3		20
Tert-Butyl Alcohol	110		119		70-130	8		20
Styrene	99		96		70-130	3		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL

**Lab Number:** L1515519

**Project Number:** 21.0056730.40

**Report Date:** 07/08/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG800809-1 WG800809-2								
Dichlorodifluoromethane	118		117		36-147	1		20
Acetone	117		103		58-148	13		20
Carbon disulfide	102		97		51-130	5		20
2-Butanone	104		99		63-138	5		20
Vinyl acetate	92		90		70-130	2		20
4-Methyl-2-pentanone	96		92		59-130	4		20
2-Hexanone	98		95		57-130	3		20
Acrolein	115		108		40-160	6		20
Bromochloromethane	111		106		70-130	5		20
2,2-Dichloropropane	112		108		63-133	4		20
1,2-Dibromoethane	108		107		70-130	1		20
1,3-Dichloropropane	104		104		70-130	0		20
1,1,1,2-Tetrachloroethane	102		102		64-130	0		20
Bromobenzene	103		101		70-130	2		20
n-Butylbenzene	89		84		53-136	6		20
sec-Butylbenzene	92		84		70-130	9		20
tert-Butylbenzene	92		86		70-130	7		20
o-Chlorotoluene	99		96		70-130	3		20
p-Chlorotoluene	98		94		70-130	4		20
1,2-Dibromo-3-chloropropane	87		91		41-144	4		20
Hexachlorobutadiene	86		88		63-130	2		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL

**Lab Number:** L1515519

**Project Number:** 21.0056730.40

**Report Date:** 07/08/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG800809-1 WG800809-2								
Isopropylbenzene	97		91		70-130	6		20
p-Isopropyltoluene	93		87		70-130	7		20
Naphthalene	75		96		70-130	25	Q	20
n-Propylbenzene	96		88		69-130	9		20
1,2,3-Trichlorobenzene	74		92		70-130	22	Q	20
1,2,4-Trichlorobenzene	76		87		70-130	13		20
1,3,5-Trimethylbenzene	96		91		64-130	5		20
1,2,4-Trimethylbenzene	98		93		70-130	5		20
Methyl Acetate	114		112		70-130	2		20
Ethyl Acetate	114		102		70-130	11		20
Cyclohexane	102		99		70-130	3		20
Ethyl-Tert-Butyl-Ether	101		99		70-130	2		20
Tertiary-Amyl Methyl Ether	101		98		66-130	3		20
1,4-Dioxane	127		113		56-162	12		20
Freon-113	107		106		70-130	1		20
p-Diethylbenzene	90		86		70-130	5		20
p-Ethyltoluene	97		91		70-130	6		20
1,2,4,5-Tetramethylbenzene	85		85		70-130	0		20
Ethyl ether	99		99		59-134	0		20
trans-1,4-Dichloro-2-butene	102		104		70-130	2		20
Methyl cyclohexane	98		93		70-130	5		20

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** COYNE TEXTILE SERV.-MW INSTALL**Lab Number:** L1515519**Project Number:** 21.0056730.40**Report Date:** 07/08/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
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Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG800809-1 WG800809-2

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
1,2-Dichloroethane-d4	100		100		70-130
Toluene-d8	104		105		70-130
4-Bromofluorobenzene	98		98		70-130
Dibromofluoromethane	104		105		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL

**Lab Number:** L1515519

**Project Number:** 21.0056730.40

**Report Date:** 07/08/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG800852-1 WG800852-2								
Methylene chloride	91		90		70-130	1		30
1,1-Dichloroethane	95		98		70-130	3		30
Chloroform	105		107		70-130	2		30
Carbon tetrachloride	130		136	Q	70-130	5		30
1,2-Dichloropropane	90		93		70-130	3		30
Dibromochloromethane	110		111		70-130	1		30
2-Chloroethylvinyl ether	113		110		70-130	3		30
1,1,2-Trichloroethane	95		94		70-130	1		30
Tetrachloroethene	122		130		70-130	6		30
Chlorobenzene	100		105		70-130	5		30
Trichlorofluoromethane	134		139		70-139	4		30
1,2-Dichloroethane	110		111		70-130	1		30
1,1,1-Trichloroethane	120		124		70-130	3		30
Bromodichloromethane	104		106		70-130	2		30
trans-1,3-Dichloropropene	102		105		70-130	3		30
cis-1,3-Dichloropropene	97		98		70-130	1		30
1,1-Dichloropropene	106		111		70-130	5		30
Bromoform	109		108		70-130	1		30
1,1,2,2-Tetrachloroethane	88		86		70-130	2		30
Benzene	94		98		70-130	4		30
Toluene	95		101		70-130	6		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL

**Lab Number:** L1515519

**Project Number:** 21.0056730.40

**Report Date:** 07/08/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG800852-1 WG800852-2								
Ethylbenzene	103		108		70-130	5		30
Chloromethane	67		70		52-130	4		30
Bromomethane	104		105		57-147	1		30
Vinyl chloride	71		74		67-130	4		30
Chloroethane	98		106		50-151	8		30
1,1-Dichloroethene	100		104		65-135	4		30
trans-1,2-Dichloroethene	97		101		70-130	4		30
Trichloroethene	106		110		70-130	4		30
1,2-Dichlorobenzene	106		109		70-130	3		30
1,3-Dichlorobenzene	107		111		70-130	4		30
1,4-Dichlorobenzene	105		110		70-130	5		30
Methyl tert butyl ether	98		97		66-130	1		30
p/m-Xylene	106		112		70-130	6		30
o-Xylene	104		109		70-130	5		30
cis-1,2-Dichloroethene	94		99		70-130	5		30
Dibromomethane	103		103		70-130	0		30
Styrene	105		109		70-130	4		30
Dichlorodifluoromethane	81		85		30-146	5		30
Acetone	88		81		54-140	8		30
Carbon disulfide	77		83		59-130	8		30
2-Butanone	87		82		70-130	6		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL

**Lab Number:** L1515519

**Project Number:** 21.0056730.40

**Report Date:** 07/08/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG800852-1 WG800852-2								
Vinyl acetate	92		90		70-130	2		30
4-Methyl-2-pentanone	85		82		70-130	4		30
1,2,3-Trichloropropane	94		91		68-130	3		30
2-Hexanone	81		79		70-130	3		30
Bromochloromethane	106		107		70-130	1		30
2,2-Dichloropropane	122		124		70-130	2		30
1,2-Dibromoethane	100		99		70-130	1		30
1,3-Dichloropropane	96		95		69-130	1		30
1,1,1,2-Tetrachloroethane	112		116		70-130	4		30
Bromobenzene	102		106		70-130	4		30
n-Butylbenzene	102		108		70-130	6		30
sec-Butylbenzene	105		110		70-130	5		30
tert-Butylbenzene	107		114		70-130	6		30
o-Chlorotoluene	99		103		70-130	4		30
p-Chlorotoluene	99		103		70-130	4		30
1,2-Dibromo-3-chloropropane	102		101		68-130	1		30
Hexachlorobutadiene	134	Q	141	Q	67-130	5		30
Isopropylbenzene	100		106		70-130	6		30
p-Isopropyltoluene	109		115		70-130	5		30
Naphthalene	95		95		70-130	0		30
Acrylonitrile	81		77		70-130	5		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL

**Lab Number:** L1515519

**Project Number:** 21.0056730.40

**Report Date:** 07/08/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG800852-1 WG800852-2								
Diisopropyl Ether	84		87		66-130	4		30
Tert-Butyl Alcohol	95		87		70-130	9		30
n-Propylbenzene	97		103		70-130	6		30
1,2,3-Trichlorobenzene	110		113		70-130	3		30
1,2,4-Trichlorobenzene	112		116		70-130	4		30
1,3,5-Trimethylbenzene	105		108		70-130	3		30
1,2,4-Trimethylbenzene	103		107		70-130	4		30
Methyl Acetate	89		83		51-146	7		30
Ethyl Acetate	90		85		70-130	6		30
Acrolein	81		76		70-130	6		30
Cyclohexane	81		87		59-142	7		30
1,4-Dioxane	86		81		65-136	6		30
Freon-113	106		113		50-139	6		30
p-Diethylbenzene	106		113		70-130	6		30
p-Ethyltoluene	100		106		70-130	6		30
1,2,4,5-Tetramethylbenzene	104		109		70-130	5		30
Tetrahydrofuran	83		77		66-130	8		30
Ethyl ether	90		89		67-130	1		30
trans-1,4-Dichloro-2-butene	106		105		70-130	1		30
Methyl cyclohexane	87		94		70-130	8		30
Ethyl-Tert-Butyl-Ether	94		94		70-130	0		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL

**Lab Number:** L1515519

**Project Number:** 21.0056730.40

**Report Date:** 07/08/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG800852-1 WG800852-2								
Tertiary-Amyl Methyl Ether	93		95		70-130	2		30

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
1,2-Dichloroethane-d4	117		115		70-130
Toluene-d8	98		99		70-130
4-Bromofluorobenzene	92		93		70-130
Dibromofluoromethane	105		104		70-130

# SEMIVOLATILES

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

**SAMPLE RESULTS**

Lab ID: L1515519-01  
 Client ID: MW-4-4-6-7715  
 Sample Location: SYRACUSE, NY 13202  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/08/15 12:58  
 Analyst: RC  
 Percent Solids: 71%

Date Collected: 07/07/15 10:40  
 Date Received: 07/07/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/08/15 04:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	180	47.	1
1,2,4-Trichlorobenzene	ND		ug/kg	230	75.	1
Hexachlorobenzene	ND		ug/kg	140	43.	1
Bis(2-chloroethyl)ether	ND		ug/kg	210	64.	1
2-Chloronaphthalene	ND		ug/kg	230	75.	1
1,2-Dichlorobenzene	ND		ug/kg	230	76.	1
1,3-Dichlorobenzene	ND		ug/kg	230	72.	1
1,4-Dichlorobenzene	ND		ug/kg	230	70.	1
3,3'-Dichlorobenzidine	ND		ug/kg	230	61.	1
2,4-Dinitrotoluene	ND		ug/kg	230	50.	1
2,6-Dinitrotoluene	ND		ug/kg	230	59.	1
Fluoranthene	ND		ug/kg	140	42.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	230	70.	1
4-Bromophenyl phenyl ether	ND		ug/kg	230	53.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	280	81.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	250	70.	1
Hexachlorobutadiene	ND		ug/kg	230	65.	1
Hexachlorocyclopentadiene	ND		ug/kg	660	150	1
Hexachloroethane	ND		ug/kg	180	42.	1
Isophorone	ND		ug/kg	210	61.	1
Naphthalene	ND		ug/kg	230	76.	1
Nitrobenzene	ND		ug/kg	210	55.	1
NDPA/DPA	ND		ug/kg	180	48.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	230	68.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	230	60.	1
Butyl benzyl phthalate	ND		ug/kg	230	45.	1
Di-n-butylphthalate	ND		ug/kg	230	44.	1
Di-n-octylphthalate	ND		ug/kg	230	57.	1
Diethyl phthalate	ND		ug/kg	230	49.	1
Dimethyl phthalate	ND		ug/kg	230	58.	1

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

**SAMPLE RESULTS**

**Lab ID:** L1515519-01  
**Client ID:** MW-4-4-6-7715  
**Sample Location:** SYRACUSE, NY 13202

**Date Collected:** 07/07/15 10:40  
**Date Received:** 07/07/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Benzo(a)anthracene	ND		ug/kg	140	45.	1
Benzo(a)pyrene	ND		ug/kg	180	56.	1
Benzo(b)fluoranthene	ND		ug/kg	140	46.	1
Benzo(k)fluoranthene	ND		ug/kg	140	44.	1
Chrysene	ND		ug/kg	140	45.	1
Acenaphthylene	ND		ug/kg	180	43.	1
Anthracene	ND		ug/kg	140	38.	1
Benzo(ghi)perylene	ND		ug/kg	180	48.	1
Fluorene	ND		ug/kg	230	66.	1
Phenanthrene	ND		ug/kg	140	45.	1
Dibenzo(a,h)anthracene	ND		ug/kg	140	44.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	180	51.	1
Pyrene	ND		ug/kg	140	45.	1
Biphenyl	ND		ug/kg	520	76.	1
4-Chloroaniline	ND		ug/kg	230	61.	1
2-Nitroaniline	ND		ug/kg	230	65.	1
3-Nitroaniline	ND		ug/kg	230	64.	1
4-Nitroaniline	ND		ug/kg	230	62.	1
Dibenzofuran	ND		ug/kg	230	77.	1
2-Methylnaphthalene	ND		ug/kg	280	73.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	230	71.	1
Acetophenone	ND		ug/kg	230	71.	1
Benzyl Alcohol	ND		ug/kg	230	71.	1
Carbazole	ND		ug/kg	230	49.	1
Benzaldehyde	ND		ug/kg	300	93.	1
Caprolactam	ND		ug/kg	230	64.	1
Atrazine	ND		ug/kg	180	52.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	101		10-136
4-Terphenyl-d14	82		18-120

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

**SAMPLE RESULTS**

Lab ID: L1515519-02 D2  
 Client ID: MW-4-8-10-7715  
 Sample Location: SYRACUSE, NY 13202  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/08/15 14:47  
 Analyst: RC  
 Percent Solids: 70%

Date Collected: 07/07/15 10:55  
 Date Received: 07/07/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/08/15 04:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Fluoranthene	40000		ug/kg	1400	430	10
Benzo(a)anthracene	20000		ug/kg	1400	460	10
Benzo(b)fluoranthene	20000		ug/kg	1400	480	10
Chrysene	21000		ug/kg	1400	460	10
Phenanthrene	19000		ug/kg	1400	460	10
Pyrene	33000		ug/kg	1400	460	10

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

**SAMPLE RESULTS**

Lab ID: L1515519-02 D  
 Client ID: MW-4-8-10-7715  
 Sample Location: SYRACUSE, NY 13202  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/08/15 13:25  
 Analyst: RC  
 Percent Solids: 70%

Date Collected: 07/07/15 10:55  
 Date Received: 07/07/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/08/15 04:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	950		ug/kg	380	97.	2
1,2,4-Trichlorobenzene	ND		ug/kg	470	150	2
Hexachlorobenzene	ND		ug/kg	280	88.	2
Bis(2-chloroethyl)ether	ND		ug/kg	420	130	2
2-Chloronaphthalene	ND		ug/kg	470	150	2
1,2-Dichlorobenzene	ND		ug/kg	470	150	2
1,3-Dichlorobenzene	ND		ug/kg	470	150	2
1,4-Dichlorobenzene	ND		ug/kg	470	140	2
3,3'-Dichlorobenzidine	ND		ug/kg	470	120	2
2,4-Dinitrotoluene	ND		ug/kg	470	100	2
2,6-Dinitrotoluene	ND		ug/kg	470	120	2
Fluoranthene	41000	E	ug/kg	280	86.	2
4-Chlorophenyl phenyl ether	ND		ug/kg	470	140	2
4-Bromophenyl phenyl ether	ND		ug/kg	470	110	2
Bis(2-chloroisopropyl)ether	ND		ug/kg	560	160	2
Bis(2-chloroethoxy)methane	ND		ug/kg	510	140	2
Hexachlorobutadiene	ND		ug/kg	470	130	2
Hexachlorocyclopentadiene	ND		ug/kg	1300	300	2
Hexachloroethane	ND		ug/kg	380	86.	2
Isophorone	ND		ug/kg	420	120	2
Naphthalene	820		ug/kg	470	160	2
Nitrobenzene	ND		ug/kg	420	110	2
NDPA/DPA	ND		ug/kg	380	99.	2
n-Nitrosodi-n-propylamine	ND		ug/kg	470	140	2
Bis(2-ethylhexyl)phthalate	ND		ug/kg	470	120	2
Butyl benzyl phthalate	ND		ug/kg	470	92.	2
Di-n-butylphthalate	ND		ug/kg	470	91.	2
Di-n-octylphthalate	ND		ug/kg	470	120	2
Diethyl phthalate	ND		ug/kg	470	100	2
Dimethyl phthalate	ND		ug/kg	470	120	2

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

**SAMPLE RESULTS**

**Lab ID:** L1515519-02 D  
**Client ID:** MW-4-8-10-7715  
**Sample Location:** SYRACUSE, NY 13202

**Date Collected:** 07/07/15 10:55  
**Date Received:** 07/07/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Benzo(a)anthracene	20000	E	ug/kg	280	92.	2
Benzo(a)pyrene	17000		ug/kg	380	120	2
Benzo(b)fluoranthene	21000	E	ug/kg	280	95.	2
Benzo(k)fluoranthene	7100		ug/kg	280	90.	2
Chrysene	20000	E	ug/kg	280	92.	2
Acenaphthylene	2300		ug/kg	380	88.	2
Anthracene	6300		ug/kg	280	78.	2
Benzo(ghi)perylene	7700		ug/kg	380	98.	2
Fluorene	2000		ug/kg	470	140	2
Phenanthrene	20000	E	ug/kg	280	92.	2
Dibenzo(a,h)anthracene	2400		ug/kg	280	91.	2
Indeno(1,2,3-cd)pyrene	8800		ug/kg	380	100	2
Pyrene	36000	E	ug/kg	280	92.	2
Biphenyl	ND		ug/kg	1100	160	2
4-Chloroaniline	ND		ug/kg	470	120	2
2-Nitroaniline	ND		ug/kg	470	130	2
3-Nitroaniline	ND		ug/kg	470	130	2
4-Nitroaniline	ND		ug/kg	470	130	2
Dibenzofuran	710		ug/kg	470	160	2
2-Methylnaphthalene	250	J	ug/kg	560	150	2
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	470	140	2
Acetophenone	ND		ug/kg	470	150	2
Benzyl Alcohol	ND		ug/kg	470	140	2
Carbazole	740		ug/kg	470	100	2
Benzaldehyde	ND		ug/kg	620	190	2
Caprolactam	ND		ug/kg	470	130	2
Atrazine	ND		ug/kg	380	110	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	66		18-120

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 07/08/15 11:37  
**Analyst:** RC

**Extraction Method:** EPA 3546  
**Extraction Date:** 07/08/15 04:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG800654-1					
Acenaphthene	ND		ug/kg	130	33.
Benzidine	ND		ug/kg	530	130
n-Nitrosodimethylamine	ND		ug/kg	320	52.
1,2,4-Trichlorobenzene	ND		ug/kg	160	53.
Hexachlorobenzene	ND		ug/kg	97	30.
Bis(2-chloroethyl)ether	ND		ug/kg	140	45.
2-Chloronaphthalene	ND		ug/kg	160	53.
1,2-Dichlorobenzene	ND		ug/kg	160	53.
1,3-Dichlorobenzene	ND		ug/kg	160	51.
1,4-Dichlorobenzene	ND		ug/kg	160	49.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	35.
2,6-Dinitrotoluene	ND		ug/kg	160	41.
Fluoranthene	ND		ug/kg	97	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	49.
4-Bromophenyl phenyl ether	ND		ug/kg	160	37.
Azobenzene	ND		ug/kg	160	43.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	57.
Bis(2-chloroethoxy)methane	ND		ug/kg	170	49.
Hexachlorobutadiene	ND		ug/kg	160	46.
Hexachlorocyclopentadiene	ND		ug/kg	460	100
Hexachloroethane	ND		ug/kg	130	29.
Isophorone	ND		ug/kg	140	43.
Naphthalene	ND		ug/kg	160	54.
Nitrobenzene	ND		ug/kg	140	38.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	34.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	48.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	42.
Butyl benzyl phthalate	ND		ug/kg	160	32.

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 07/08/15 11:37  
**Analyst:** RC

**Extraction Method:** EPA 3546  
**Extraction Date:** 07/08/15 04:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG800654-1					
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	40.
Diethyl phthalate	ND		ug/kg	160	34.
Dimethyl phthalate	ND		ug/kg	160	41.
Benzo(a)anthracene	ND		ug/kg	97	32.
Benzo(a)pyrene	ND		ug/kg	130	39.
Benzo(b)fluoranthene	ND		ug/kg	97	33.
Benzo(k)fluoranthene	ND		ug/kg	97	31.
Chrysene	ND		ug/kg	97	32.
Acenaphthylene	ND		ug/kg	130	30.
Anthracene	ND		ug/kg	97	27.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	46.
Phenanthrene	ND		ug/kg	97	32.
Dibenzo(a,h)anthracene	ND		ug/kg	97	31.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	36.
Pyrene	ND		ug/kg	97	31.
Biphenyl	ND		ug/kg	370	53.
Aniline	ND		ug/kg	190	33.
4-Chloroaniline	ND		ug/kg	160	43.
2-Nitroaniline	ND		ug/kg	160	46.
3-Nitroaniline	ND		ug/kg	160	44.
4-Nitroaniline	ND		ug/kg	160	44.
Dibenzofuran	ND		ug/kg	160	54.
2-Methylnaphthalene	ND		ug/kg	190	52.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	50.
Acetophenone	ND		ug/kg	160	50.
2,4,6-Trichlorophenol	ND		ug/kg	97	30.
P-Chloro-M-Cresol	ND		ug/kg	160	47.

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 07/08/15 11:37  
**Analyst:** RC

**Extraction Method:** EPA 3546  
**Extraction Date:** 07/08/15 04:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG800654-1					
2-Chlorophenol	ND		ug/kg	160	49.
2,4-Dichlorophenol	ND		ug/kg	140	52.
2,4-Dimethylphenol	ND		ug/kg	160	48.
2-Nitrophenol	ND		ug/kg	350	50.
4-Nitrophenol	ND		ug/kg	220	52.
2,4-Dinitrophenol	ND		ug/kg	770	220
4,6-Dinitro-o-cresol	ND		ug/kg	420	59.
Pentachlorophenol	ND		ug/kg	130	34.
Phenol	ND		ug/kg	160	48.
2-Methylphenol	ND		ug/kg	160	52.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	53.
2,4,5-Trichlorophenol	ND		ug/kg	160	52.
Benzoic Acid	ND		ug/kg	520	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	35.
Benzaldehyde	ND		ug/kg	210	65.
Caprolactam	ND		ug/kg	160	44.
Atrazine	ND		ug/kg	130	36.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	27.
Pyridine	ND		ug/kg	640	58.
Parathion, ethyl	ND		ug/kg	160	64.
1-Methylnaphthalene	ND		ug/kg	160	48.

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL**Lab Number:** L1515519**Project Number:** 21.0056730.40**Report Date:** 07/08/15**Method Blank Analysis  
Batch Quality Control**Analytical Method: 1,8270D  
Analytical Date: 07/08/15 11:37  
Analyst: RCExtraction Method: EPA 3546  
Extraction Date: 07/08/15 04:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG800654-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	117		25-120
Phenol-d6	<b>123</b>	Q	10-120
Nitrobenzene-d5	118		23-120
2-Fluorobiphenyl	120		30-120
2,4,6-Tribromophenol	123		10-136
4-Terphenyl-d14	<b>132</b>	Q	18-120

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL

**Lab Number:** L1515519

**Project Number:** 21.0056730.40

**Report Date:** 07/08/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG800654-2 WG800654-3								
Acenaphthene	83		115		31-137	32		50
Benidine	51		58		10-66	13		50
n-Nitrosodimethylamine	72		102	Q	22-100	34		50
1,2,4-Trichlorobenzene	73		104		38-107	35		50
Hexachlorobenzene	85		111		40-140	27		50
Bis(2-chloroethyl)ether	67		102		40-140	41		50
2-Chloronaphthalene	81		115		40-140	35		50
1,2-Dichlorobenzene	68		97		40-140	35		50
1,3-Dichlorobenzene	68		96		40-140	34		50
1,4-Dichlorobenzene	68		94		28-104	32		50
3,3'-Dichlorobenzidine	78		100		40-140	25		50
2,4-Dinitrotoluene	84		116	Q	28-89	32		50
2,6-Dinitrotoluene	83		114		40-140	31		50
Fluoranthene	83		113		40-140	31		50
4-Chlorophenyl phenyl ether	81		109		40-140	29		50
4-Bromophenyl phenyl ether	81		107		40-140	28		50
Azobenzene	91		123		40-140	30		50
Bis(2-chloroisopropyl)ether	77		110		40-140	35		50
Bis(2-chloroethoxy)methane	76		108		40-117	35		50
Hexachlorobutadiene	75		105		40-140	33		50
Hexachlorocyclopentadiene	70		100		40-140	35		50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL

**Lab Number:** L1515519

**Project Number:** 21.0056730.40

**Report Date:** 07/08/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG800654-2 WG800654-3								
Hexachloroethane	70		100		40-140	35		50
Isophorone	76		108		40-140	35		50
Naphthalene	77		106		40-140	32		50
Nitrobenzene	77		112		40-140	37		50
NitrosoDiPhenylAmine(NDPA)/DPA	84		112		36-157	29		50
n-Nitrosodi-n-propylamine	79		111		32-121	34		50
Bis(2-Ethylhexyl)phthalate	95		121		40-140	24		50
Butyl benzyl phthalate	91		117		40-140	25		50
Di-n-butylphthalate	90		119		40-140	28		50
Di-n-octylphthalate	96		124		40-140	25		50
Diethyl phthalate	86		117		40-140	31		50
Dimethyl phthalate	86		117		40-140	31		50
Benzo(a)anthracene	84		111		40-140	28		50
Benzo(a)pyrene	87		114		40-140	27		50
Benzo(b)fluoranthene	84		108		40-140	25		50
Benzo(k)fluoranthene	86		118		40-140	31		50
Chrysene	86		111		40-140	25		50
Acenaphthylene	80		110		40-140	32		50
Anthracene	85		113		40-140	28		50
Benzo(ghi)perylene	88		117		40-140	28		50
Fluorene	82		112		40-140	31		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: COYNE TEXTILE SERV.-MW INSTALL

Lab Number: L1515519

Project Number: 21.0056730.40

Report Date: 07/08/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG800654-2 WG800654-3								
Phenanthrene	84		113		40-140	29		50
Dibenzo(a,h)anthracene	88		118		40-140	29		50
Indeno(1,2,3-cd)Pyrene	86		116		40-140	30		50
Pyrene	84		112		35-142	29		50
Biphenyl	83		115	Q	54-104	32		50
Aniline	56		83		40-140	39		50
4-Chloroaniline	91		138		40-140	41		50
2-Nitroaniline	80		116		47-134	37		50
3-Nitroaniline	71		96		26-129	30		50
4-Nitroaniline	85		109		41-125	25		50
Dibenzofuran	84		114		40-140	30		50
2-Methylnaphthalene	79		110		40-140	33		50
1,2,4,5-Tetrachlorobenzene	80		111		40-117	32		50
Acetophenone	80		116		14-144	37		50
2,4,6-Trichlorophenol	82		113		30-130	32		50
P-Chloro-M-Cresol	88		127	Q	26-103	36		50
2-Chlorophenol	78		115	Q	25-102	38		50
2,4-Dichlorophenol	87		122		30-130	33		50
2,4-Dimethylphenol	86		124		30-130	36		50
2-Nitrophenol	75		115		30-130	42		50
4-Nitrophenol	92		133	Q	11-114	36		50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL

**Lab Number:** L1515519

**Project Number:** 21.0056730.40

**Report Date:** 07/08/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG800654-2 WG800654-3								
2,4-Dinitrophenol	30		39		4-130	26		50
4,6-Dinitro-o-cresol	72		85		10-130	17		50
Pentachlorophenol	76		104		17-109	31		50
Phenol	82		116	Q	26-90	34		50
2-Methylphenol	84		119		30-130.	34		50
3-Methylphenol/4-Methylphenol	92		134	Q	30-130	37		50
2,4,5-Trichlorophenol	87		120		30-130	32		50
Benzoic Acid	8	Q	21		10-66	86	Q	50
Benzyl Alcohol	88		124		40-140	34		50
Carbazole	84		114		54-128	30		50
Benzaldehyde	81		118		40-140	37		50
Caprolactam	85		124		15-130	37		50
Atrazine	89		122		40-140	31		50
2,3,4,6-Tetrachlorophenol	87		123		40-140	34		50
Pyridine	51		65		10-93	24		50
Parathion, ethyl	102		129		40-140	23		50
1-Methylnaphthalene	90		120		26-130	29		50

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
-----------	-------------------------	-------------	--------------------------	-------------	----------------------------	------------	-------------	----------------------

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG800654-2 WG800654-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	81		113		25-120
Phenol-d6	90		125	Q	10-120
Nitrobenzene-d5	85		118		23-120
2-Fluorobiphenyl	85		114		30-120
2,4,6-Tribromophenol	104		136		10-136
4-Terphenyl-d14	91		117		18-120

# **INORGANICS & MISCELLANEOUS**

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL**Lab Number:** L1515519**Project Number:** 21.0056730.40**Report Date:** 07/08/15**SAMPLE RESULTS**

**Lab ID:** L1515519-01  
**Client ID:** MW-4-4-6-7715  
**Sample Location:** SYRACUSE, NY 13202  
**Matrix:** Soil

**Date Collected:** 07/07/15 10:40  
**Date Received:** 07/07/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.2		%	0.100	NA	1	-	07/08/15 05:43	30,2540G	LH



**Project Name:** COYNE TEXTILE SERV.-MW INSTALL**Lab Number:** L1515519**Project Number:** 21.0056730.40**Report Date:** 07/08/15**SAMPLE RESULTS**

**Lab ID:** L1515519-02  
**Client ID:** MW-4-8-10-7715  
**Sample Location:** SYRACUSE, NY 13202  
**Matrix:** Soil

**Date Collected:** 07/07/15 10:55  
**Date Received:** 07/07/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	70.2		%	0.100	NA	1	-	07/08/15 05:43	30,2540G	LH



**Project Name:** COYNE TEXTILE SERV.-MW INSTALL**Lab Number:** L1515519**Project Number:** 21.0056730.40**Report Date:** 07/08/15**SAMPLE RESULTS**

**Lab ID:** L1515519-03  
**Client ID:** MW-4-14-16-7715  
**Sample Location:** SYRACUSE, NY 13202  
**Matrix:** Soil

**Date Collected:** 07/07/15 11:20  
**Date Received:** 07/07/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	60.4		%	0.100	NA	1	-	07/08/15 05:43	30,2540G	LH



**Project Name:** COYNE TEXTILE SERV.-MW INSTALL**Lab Number:** L1515519**Project Number:** 21.0056730.40**Report Date:** 07/08/15**SAMPLE RESULTS**

**Lab ID:** L1515519-04  
**Client ID:** MW-4-18-20-7715  
**Sample Location:** SYRACUSE, NY 13202  
**Matrix:** Soil

**Date Collected:** 07/07/15 11:30  
**Date Received:** 07/07/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.9		%	0.100	NA	1	-	07/08/15 05:43	30,2540G	LH



**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

**SAMPLE RESULTS**

**Lab ID:** L1515519-05  
**Client ID:** MW-4-22-24-7715  
**Sample Location:** SYRACUSE, NY 13202  
**Matrix:** Soil

**Date Collected:** 07/07/15 11:45  
**Date Received:** 07/07/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.7		%	0.100	NA	1	-	07/08/15 05:43	30,2540G	LH



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL

**Project Number:** 21.0056730.40

**Lab Number:** L1515519

**Report Date:** 07/08/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG800665-1 QC Sample: L1515519-01 Client ID: MW-4-4-6-7715						
Solids, Total	71.2	70.2	%	1		20

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

### Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

#### Cooler Information Custody Seal

##### Cooler

A Absent

#### Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1515519-01A	Glass 60mL/2oz unpreserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1515519-01B	Glass 120ml/4oz unpreserved	A	N/A	4.8	Y	Absent	NYTCL-8270(14),TS(7)
L1515519-02A	Glass 60mL/2oz unpreserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1515519-02B	Glass 120ml/4oz unpreserved	A	N/A	4.8	Y	Absent	NYTCL-8270(14),TS(7)
L1515519-03A	Glass 60mL/2oz unpreserved	A	N/A	4.8	Y	Absent	TS(7),NYTCL-8260(14)
L1515519-04A	Glass 60mL/2oz unpreserved	A	N/A	4.8	Y	Absent	TS(7),NYTCL-8260(14)
L1515519-05A	Glass 60mL/2oz unpreserved	A	N/A	4.8	Y	Absent	TS(7),NYTCL-8260(14)
L1515519-06A	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1515519-06B	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1515519-06C	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)

\*Values in parentheses indicate holding time in days

**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

## 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.
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).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

#### Data Qualifiers

- 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:** COYNE TEXTILE SERV.-MW INSTALL  
**Project Number:** 21.0056730.40

**Lab Number:** L1515519  
**Report Date:** 07/08/15

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

## 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

Last revised December 16, 2014

### The following analytes are not included in our NELAP Scope of Accreditation:

#### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

#### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**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.

### 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,Tl; **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,Tl,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.

 <b>NEW YORK CHAIN OF CUSTODY</b>	<b>Service Centers</b> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page	Date Rec'd in Lab	ALPHA Job #	
		of			7/8/15
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	<b>Project Information</b>		<b>Deliverables</b>	<b>Billing Information</b>
<b>Client Information</b> Client: <u>GZA GeoEnvironmental</u> Address: <u>535 Washington St 11th Fl</u> <u>Buffalo, NY 14203</u> Phone: <u>716-685-2300</u> Fax: <u>716-685-3629</u> Email: <u>thomas.bohlen@gza.com</u>		Project Name: <u>Coyne Textile Services - MW Installation</u> Project Location: <u>Syracuse, NY 13202</u> Project # <u>21.0056730.46</u> (Use Project name as Project #) <input type="checkbox"/>		<input type="checkbox"/> ASP-A <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Same as Client Info PO #
Project Manager: <u>Tom Bohlen</u> ALPHAQuote #:		<b>Regulatory Requirement</b>		<b>Disposal Site Information</b>	
Turn-Around Time Standard <input type="checkbox"/> Due Date: <u>7/8/2015</u> Rush (only if pre approved) <input checked="" type="checkbox"/> # of Days: <u>1</u>		<input checked="" type="checkbox"/> NY TOGS <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		<input checked="" type="checkbox"/> NY Part 375 <input checked="" type="checkbox"/> NY CP-51 <input type="checkbox"/> Other	
These samples have been previously analyzed by Alpha <input type="checkbox"/>		<b>ANALYSIS</b>		<b>Sample Filtration</b>	
Other project specific requirements/comments:		8260	8270	<input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)	
Please specify Metals or TAL.				<b>Sample Specific Comments</b>	
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date      Time	Sample Matrix	Sampler's Initials	Total Bottles
15519 - 01	MW-4-4-6-7715				X
-02	MW-4-8-10-7715				X
-03	MW-4-14-16-7715				X
-04	MW-4-18-20-7715				X
-05	MW-4-22-24-7715				X
-06	Trip Blank - 001-7715				X
Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015	
		Container Type		Preservative	
		A/V		A/B	
Relinquished By:		Date/Time	Received By:		Date/Time
<u>Patrick Finnerly</u>		<u>07/07/2015 1700</u>	<u>[Signature]</u>		<u>7/7/15 1700</u>
<u>[Signature]</u>		<u>7/7/15 2240</u>	<u>[Signature]</u>		<u>7/7/15 2240</u>
<u>[Signature]</u>		<u>7/8/15 03:45</u>	<u>[Signature]</u>		<u>7/8/15 0345</u>
Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)					



## ANALYTICAL REPORT

Lab Number:	L1515786
Client:	The Palmerton Group 535 Washington Street 11th Floor Buffalo, NY 14203
ATTN:	Thomas Bohlen
Phone:	(716) 844-7050
Project Name:	COYNE TEXTILE SERVICES MW INST
Project Number:	21.0056730.40
Report Date:	07/10/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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).

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Eight Walkup Drive, Westborough, MA 01581-1019  
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**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1515786-01	MW-5-5-7-7915	SOIL	140 CORTLAND AVE-SYRACUSE, NY	07/09/15 10:05	07/09/15
L1515786-02	MW-5-11-13-7915	SOIL	140 CORTLAND AVE-SYRACUSE, NY	07/09/15 10:20	07/09/15
L1515786-03	MW-5-19-21-7915	SOIL	140 CORTLAND AVE-SYRACUSE, NY	07/09/15 10:40	07/09/15
L1515786-04	MW-5-29-31-7915	SOIL	140 CORTLAND AVE-SYRACUSE, NY	07/09/15 11:10	07/09/15
L1515786-05	MW-5-35-37-7915	SOIL	140 CORTLAND AVE-SYRACUSE, NY	07/09/15 12:35	07/09/15
L1515786-06	MW-5-45-47-7915	SOIL	140 CORTLAND AVE-SYRACUSE, NY	07/09/15 14:45	07/09/15
L1515786-07	MW-5-17-19-7915	SOIL	140 CORTLAND AVE-SYRACUSE, NY	07/09/15 10:35	07/09/15
L1515786-08	TRIP BLANK-002-7915	WATER	140 CORTLAND AVE-SYRACUSE, NY	07/09/15 00:00	07/09/15

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

### 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 all of the requirements of NELAC, for all NELAC accredited parameters. 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.

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**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

### 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.

#### Volatile Organics

Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

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:

 Cristin Walker

Title: Technical Director/Representative

Date: 07/10/15

# ORGANICS

# VOLATILES

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**SAMPLE RESULTS**

Lab ID: L1515786-01  
 Client ID: MW-5-5-7-7915  
 Sample Location: 140 CORTLAND AVE-SYRACUSE, NY  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/10/15 12:30  
 Analyst: BN  
 Percent Solids: 66%

Date Collected: 07/09/15 10:05  
 Date Received: 07/09/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	15	1.7	1
1,1-Dichloroethane	ND		ug/kg	2.3	0.13	1
Chloroform	ND		ug/kg	2.3	0.56	1
Carbon tetrachloride	ND		ug/kg	1.5	0.32	1
1,2-Dichloropropane	ND		ug/kg	5.3	0.34	1
Dibromochloromethane	ND		ug/kg	1.5	0.23	1
1,1,2-Trichloroethane	ND		ug/kg	2.3	0.46	1
Tetrachloroethene	63		ug/kg	1.5	0.21	1
Chlorobenzene	ND		ug/kg	1.5	0.53	1
Trichlorofluoromethane	ND		ug/kg	7.6	0.59	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	1.5	0.17	1
Bromodichloromethane	ND		ug/kg	1.5	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.18	1
cis-1,3-Dichloropropene	ND		ug/kg	1.5	0.18	1
Bromoform	ND		ug/kg	6.1	0.36	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.5	0.15	1
Benzene	0.38	J	ug/kg	1.5	0.18	1
Toluene	ND		ug/kg	2.3	0.30	1
Ethylbenzene	ND		ug/kg	1.5	0.19	1
Chloromethane	ND		ug/kg	7.6	0.44	1
Bromomethane	ND		ug/kg	3.0	0.51	1
Vinyl chloride	ND		ug/kg	3.0	0.18	1
Chloroethane	ND		ug/kg	3.0	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.40	1
trans-1,2-Dichloroethene	ND		ug/kg	2.3	0.32	1
Trichloroethene	2.4		ug/kg	1.5	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	7.6	0.23	1
1,3-Dichlorobenzene	ND		ug/kg	7.6	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	7.6	0.21	1

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**SAMPLE RESULTS**

**Lab ID:** L1515786-01  
**Client ID:** MW-5-5-7-7915  
**Sample Location:** 140 CORTLAND AVE-SYRACUSE, NY

**Date Collected:** 07/09/15 10:05  
**Date Received:** 07/09/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	3.0	0.13	1
p/m-Xylene	ND		ug/kg	3.0	0.30	1
o-Xylene	ND		ug/kg	3.0	0.26	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.22	1
Styrene	ND		ug/kg	3.0	0.61	1
Dichlorodifluoromethane	ND		ug/kg	15	0.29	1
Acetone	ND		ug/kg	15	1.6	1
Carbon disulfide	ND		ug/kg	15	1.7	1
2-Butanone	ND		ug/kg	15	0.41	1
4-Methyl-2-pentanone	ND		ug/kg	15	0.37	1
2-Hexanone	ND		ug/kg	15	1.0	1
Bromochloromethane	ND		ug/kg	7.6	0.42	1
1,2-Dibromoethane	ND		ug/kg	6.1	0.26	1
n-Butylbenzene	ND		ug/kg	1.5	0.17	1
sec-Butylbenzene	ND		ug/kg	1.5	0.18	1
tert-Butylbenzene	ND		ug/kg	7.6	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.6	0.60	1
Isopropylbenzene	ND		ug/kg	1.5	0.16	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.19	1
Naphthalene	ND		ug/kg	7.6	0.21	1
n-Propylbenzene	ND		ug/kg	1.5	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.6	0.22	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.6	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.6	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.6	0.21	1
Methyl Acetate	ND		ug/kg	30	0.41	1
Cyclohexane	ND		ug/kg	30	0.22	1
1,4-Dioxane	ND		ug/kg	150	22.	1
Freon-113	ND		ug/kg	30	0.42	1
Methyl cyclohexane	ND		ug/kg	6.1	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	104		70-130

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**SAMPLE RESULTS**

**Lab ID:** L1515786-02  
**Client ID:** MW-5-11-13-7915  
**Sample Location:** 140 CORTLAND AVE-SYRACUSE, NY  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 07/10/15 09:47  
**Analyst:** BN  
**Percent Solids:** 64%

**Date Collected:** 07/09/15 10:20  
**Date Received:** 07/09/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	16	1.7	1
1,1-Dichloroethane	2.8		ug/kg	2.4	0.13	1
Chloroform	ND		ug/kg	2.4	0.58	1
Carbon tetrachloride	ND		ug/kg	1.6	0.33	1
1,2-Dichloropropane	ND		ug/kg	5.5	0.36	1
Dibromochloromethane	ND		ug/kg	1.6	0.24	1
1,1,2-Trichloroethane	ND		ug/kg	2.4	0.48	1
Tetrachloroethene	ND		ug/kg	1.6	0.22	1
Chlorobenzene	ND		ug/kg	1.6	0.55	1
Trichlorofluoromethane	ND		ug/kg	7.9	0.61	1
1,2-Dichloroethane	ND		ug/kg	1.6	0.18	1
1,1,1-Trichloroethane	ND		ug/kg	1.6	0.17	1
Bromodichloromethane	ND		ug/kg	1.6	0.27	1
trans-1,3-Dichloropropene	ND		ug/kg	1.6	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	1.6	0.18	1
Bromoform	ND		ug/kg	6.3	0.37	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.6	0.16	1
Benzene	0.42	J	ug/kg	1.6	0.18	1
Toluene	ND		ug/kg	2.4	0.31	1
Ethylbenzene	ND		ug/kg	1.6	0.20	1
Chloromethane	ND		ug/kg	7.9	0.46	1
Bromomethane	ND		ug/kg	3.1	0.53	1
Vinyl chloride	32		ug/kg	3.1	0.18	1
Chloroethane	ND		ug/kg	3.1	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.6	0.41	1
trans-1,2-Dichloroethene	0.61	J	ug/kg	2.4	0.33	1
Trichloroethene	ND		ug/kg	1.6	0.20	1
1,2-Dichlorobenzene	ND		ug/kg	7.9	0.24	1
1,3-Dichlorobenzene	ND		ug/kg	7.9	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	7.9	0.22	1

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**SAMPLE RESULTS**

**Lab ID:** L1515786-02  
**Client ID:** MW-5-11-13-7915  
**Sample Location:** 140 CORTLAND AVE-SYRACUSE, NY

**Date Collected:** 07/09/15 10:20  
**Date Received:** 07/09/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	3.1	0.13	1
p/m-Xylene	ND		ug/kg	3.1	0.31	1
o-Xylene	ND		ug/kg	3.1	0.27	1
cis-1,2-Dichloroethene	1.7		ug/kg	1.6	0.22	1
Styrene	ND		ug/kg	3.1	0.63	1
Dichlorodifluoromethane	ND		ug/kg	16	0.30	1
Acetone	28		ug/kg	16	1.6	1
Carbon disulfide	ND		ug/kg	16	1.7	1
2-Butanone	4.7	J	ug/kg	16	0.43	1
4-Methyl-2-pentanone	ND		ug/kg	16	0.38	1
2-Hexanone	ND		ug/kg	16	1.0	1
Bromochloromethane	ND		ug/kg	7.9	0.43	1
1,2-Dibromoethane	ND		ug/kg	6.3	0.27	1
n-Butylbenzene	ND		ug/kg	1.6	0.18	1
sec-Butylbenzene	ND		ug/kg	1.6	0.19	1
tert-Butylbenzene	ND		ug/kg	7.9	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.9	0.62	1
Isopropylbenzene	ND		ug/kg	1.6	0.16	1
p-Isopropyltoluene	ND		ug/kg	1.6	0.20	1
Naphthalene	ND		ug/kg	7.9	0.22	1
n-Propylbenzene	ND		ug/kg	1.6	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.9	0.23	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.9	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.9	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.9	0.22	1
Methyl Acetate	ND		ug/kg	31	0.42	1
Cyclohexane	ND		ug/kg	31	0.23	1
1,4-Dioxane	ND		ug/kg	160	23.	1
Freon-113	ND		ug/kg	31	0.43	1
Methyl cyclohexane	ND		ug/kg	6.3	0.24	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	104		70-130

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**SAMPLE RESULTS**

Lab ID: L1515786-03 D  
 Client ID: MW-5-19-21-7915  
 Sample Location: 140 CORTLAND AVE-SYRACUSE, NY  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/10/15 10:14  
 Analyst: BN  
 Percent Solids: 73%

Date Collected: 07/09/15 10:40  
 Date Received: 07/09/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	6800	750	500
1,1-Dichloroethane	ND		ug/kg	1000	58.	500
Chloroform	ND		ug/kg	1000	250	500
Carbon tetrachloride	ND		ug/kg	680	140	500
1,2-Dichloropropane	ND		ug/kg	2400	160	500
Dibromochloromethane	ND		ug/kg	680	100	500
1,1,2-Trichloroethane	ND		ug/kg	1000	210	500
Tetrachloroethene	150000		ug/kg	680	96.	500
Chlorobenzene	ND		ug/kg	680	240	500
Trichlorofluoromethane	ND		ug/kg	3400	260	500
1,2-Dichloroethane	ND		ug/kg	680	77.	500
1,1,1-Trichloroethane	ND		ug/kg	680	75.	500
Bromodichloromethane	ND		ug/kg	680	120	500
trans-1,3-Dichloropropene	ND		ug/kg	680	82.	500
cis-1,3-Dichloropropene	ND		ug/kg	680	80.	500
Bromoform	ND		ug/kg	2700	160	500
1,1,2,2-Tetrachloroethane	ND		ug/kg	680	69.	500
Benzene	ND		ug/kg	680	80.	500
Toluene	ND		ug/kg	1000	130	500
Ethylbenzene	ND		ug/kg	680	87.	500
Chloromethane	ND		ug/kg	3400	200	500
Bromomethane	ND		ug/kg	1400	230	500
Vinyl chloride	170	J	ug/kg	1400	80.	500
Chloroethane	ND		ug/kg	1400	220	500
1,1-Dichloroethene	ND		ug/kg	680	180	500
trans-1,2-Dichloroethene	ND		ug/kg	1000	140	500
Trichloroethene	14000		ug/kg	680	85.	500
1,2-Dichlorobenzene	ND		ug/kg	3400	100	500
1,3-Dichlorobenzene	ND		ug/kg	3400	92.	500
1,4-Dichlorobenzene	ND		ug/kg	3400	94.	500

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**SAMPLE RESULTS**

Lab ID: L1515786-03 D  
 Client ID: MW-5-19-21-7915  
 Sample Location: 140 CORTLAND AVE-SYRACUSE, NY

Date Collected: 07/09/15 10:40  
 Date Received: 07/09/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	1400	57.	500
p/m-Xylene	ND		ug/kg	1400	130	500
o-Xylene	ND		ug/kg	1400	120	500
cis-1,2-Dichloroethene	4200		ug/kg	680	97.	500
Styrene	ND		ug/kg	1400	270	500
Dichlorodifluoromethane	ND		ug/kg	6800	130	500
Acetone	ND		ug/kg	6800	700	500
Carbon disulfide	ND		ug/kg	6800	750	500
2-Butanone	ND		ug/kg	6800	180	500
4-Methyl-2-pentanone	ND		ug/kg	6800	170	500
2-Hexanone	ND		ug/kg	6800	450	500
Bromochloromethane	ND		ug/kg	3400	190	500
1,2-Dibromoethane	ND		ug/kg	2700	120	500
n-Butylbenzene	ND		ug/kg	680	78.	500
sec-Butylbenzene	ND		ug/kg	680	83.	500
tert-Butylbenzene	ND		ug/kg	3400	92.	500
1,2-Dibromo-3-chloropropane	ND		ug/kg	3400	270	500
Isopropylbenzene	ND		ug/kg	680	71.	500
p-Isopropyltoluene	ND		ug/kg	680	85.	500
Naphthalene	ND		ug/kg	3400	94.	500
n-Propylbenzene	ND		ug/kg	680	74.	500
1,2,3-Trichlorobenzene	ND		ug/kg	3400	100	500
1,2,4-Trichlorobenzene	ND		ug/kg	3400	120	500
1,3,5-Trimethylbenzene	ND		ug/kg	3400	98.	500
1,2,4-Trimethylbenzene	180	J	ug/kg	3400	96.	500
Methyl Acetate	ND		ug/kg	14000	180	500
Cyclohexane	ND		ug/kg	14000	99.	500
1,4-Dioxane	ND		ug/kg	68000	9800	500
Freon-113	ND		ug/kg	14000	190	500
Methyl cyclohexane	ND		ug/kg	2700	100	500

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	102		70-130

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**SAMPLE RESULTS**

Lab ID: L1515786-04  
 Client ID: MW-5-29-31-7915  
 Sample Location: 140 CORTLAND AVE-SYRACUSE, NY  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/10/15 10:41  
 Analyst: BN  
 Percent Solids: 79%

Date Collected: 07/09/15 11:10  
 Date Received: 07/09/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	13	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.11	1
Chloroform	ND		ug/kg	1.9	0.47	1
Carbon tetrachloride	ND		ug/kg	1.3	0.27	1
1,2-Dichloropropane	ND		ug/kg	4.4	0.29	1
Dibromochloromethane	ND		ug/kg	1.3	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.39	1
Tetrachloroethene	0.47	J	ug/kg	1.3	0.18	1
Chlorobenzene	ND		ug/kg	1.3	0.44	1
Trichlorofluoromethane	ND		ug/kg	6.4	0.49	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.14	1
Bromodichloromethane	ND		ug/kg	1.3	0.22	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.15	1
Bromoform	ND		ug/kg	5.1	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.13	1
Benzene	ND		ug/kg	1.3	0.15	1
Toluene	ND		ug/kg	1.9	0.25	1
Ethylbenzene	ND		ug/kg	1.3	0.16	1
Chloromethane	ND		ug/kg	6.4	0.37	1
Bromomethane	ND		ug/kg	2.5	0.43	1
Vinyl chloride	ND		ug/kg	2.5	0.15	1
Chloroethane	ND		ug/kg	2.5	0.40	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.27	1
Trichloroethene	ND		ug/kg	1.3	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	6.4	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	6.4	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	6.4	0.18	1

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**SAMPLE RESULTS**

**Lab ID:** L1515786-04  
**Client ID:** MW-5-29-31-7915  
**Sample Location:** 140 CORTLAND AVE-SYRACUSE, NY

**Date Collected:** 07/09/15 11:10  
**Date Received:** 07/09/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	2.5	0.11	1
p/m-Xylene	ND		ug/kg	2.5	0.25	1
o-Xylene	ND		ug/kg	2.5	0.22	1
cis-1,2-Dichloroethene	0.63	J	ug/kg	1.3	0.18	1
Styrene	ND		ug/kg	2.5	0.51	1
Dichlorodifluoromethane	ND		ug/kg	13	0.24	1
Acetone	ND		ug/kg	13	1.3	1
Carbon disulfide	ND		ug/kg	13	1.4	1
2-Butanone	ND		ug/kg	13	0.34	1
4-Methyl-2-pentanone	ND		ug/kg	13	0.31	1
2-Hexanone	ND		ug/kg	13	0.85	1
Bromochloromethane	ND		ug/kg	6.4	0.35	1
1,2-Dibromoethane	ND		ug/kg	5.1	0.22	1
n-Butylbenzene	ND		ug/kg	1.3	0.14	1
sec-Butylbenzene	ND		ug/kg	1.3	0.16	1
tert-Butylbenzene	ND		ug/kg	6.4	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.4	0.50	1
Isopropylbenzene	ND		ug/kg	1.3	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.16	1
Naphthalene	ND		ug/kg	6.4	0.18	1
n-Propylbenzene	ND		ug/kg	1.3	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.4	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.4	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.4	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.4	0.18	1
Methyl Acetate	ND		ug/kg	25	0.34	1
Cyclohexane	ND		ug/kg	25	0.18	1
1,4-Dioxane	ND		ug/kg	130	18.	1
Freon-113	ND		ug/kg	25	0.35	1
Methyl cyclohexane	ND		ug/kg	5.1	0.20	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	105		70-130

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**SAMPLE RESULTS**

**Lab ID:** L1515786-05  
**Client ID:** MW-5-35-37-7915  
**Sample Location:** 140 CORTLAND AVE-SYRACUSE, NY  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 07/10/15 11:08  
**Analyst:** BN  
**Percent Solids:** 86%

**Date Collected:** 07/09/15 12:35  
**Date Received:** 07/09/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	12	1.3	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.10	1
Chloroform	ND		ug/kg	1.8	0.43	1
Carbon tetrachloride	ND		ug/kg	1.2	0.24	1
1,2-Dichloropropane	ND		ug/kg	4.1	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.35	1
Tetrachloroethene	62		ug/kg	1.2	0.16	1
Chlorobenzene	ND		ug/kg	1.2	0.41	1
Trichlorofluoromethane	ND		ug/kg	5.8	0.45	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.13	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.20	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
Bromoform	ND		ug/kg	4.7	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.23	1
Ethylbenzene	ND		ug/kg	1.2	0.15	1
Chloromethane	ND		ug/kg	5.8	0.34	1
Bromomethane	ND		ug/kg	2.3	0.39	1
Vinyl chloride	2.7		ug/kg	2.3	0.14	1
Chloroethane	ND		ug/kg	2.3	0.37	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.25	1
Trichloroethene	22		ug/kg	1.2	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	5.8	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	5.8	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	5.8	0.16	1

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**SAMPLE RESULTS**

**Lab ID:** L1515786-05  
**Client ID:** MW-5-35-37-7915  
**Sample Location:** 140 CORTLAND AVE-SYRACUSE, NY

**Date Collected:** 07/09/15 12:35  
**Date Received:** 07/09/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	2.3	0.10	1
p/m-Xylene	ND		ug/kg	2.3	0.23	1
o-Xylene	ND		ug/kg	2.3	0.20	1
cis-1,2-Dichloroethene	30		ug/kg	1.2	0.17	1
Styrene	ND		ug/kg	2.3	0.47	1
Dichlorodifluoromethane	ND		ug/kg	12	0.22	1
Acetone	ND		ug/kg	12	1.2	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.32	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.28	1
2-Hexanone	ND		ug/kg	12	0.78	1
Bromochloromethane	ND		ug/kg	5.8	0.32	1
1,2-Dibromoethane	ND		ug/kg	4.7	0.20	1
n-Butylbenzene	ND		ug/kg	1.2	0.13	1
sec-Butylbenzene	ND		ug/kg	1.2	0.14	1
tert-Butylbenzene	ND		ug/kg	5.8	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.8	0.46	1
Isopropylbenzene	ND		ug/kg	1.2	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.14	1
Naphthalene	ND		ug/kg	5.8	0.16	1
n-Propylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.8	0.17	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.8	0.21	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.8	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.8	0.16	1
Methyl Acetate	ND		ug/kg	23	0.32	1
Cyclohexane	ND		ug/kg	23	0.17	1
1,4-Dioxane	ND		ug/kg	120	17.	1
Freon-113	ND		ug/kg	23	0.32	1
Methyl cyclohexane	ND		ug/kg	4.7	0.18	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	103		70-130

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**SAMPLE RESULTS**

**Lab ID:** L1515786-06  
**Client ID:** MW-5-45-47-7915  
**Sample Location:** 140 CORTLAND AVE-SYRACUSE, NY  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 07/10/15 11:35  
**Analyst:** BN  
**Percent Solids:** 80%

**Date Collected:** 07/09/15 14:45  
**Date Received:** 07/09/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	12	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.11	1
Chloroform	1.2	J	ug/kg	1.9	0.46	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.4	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.38	1
Tetrachloroethene	6.3		ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.43	1
Trichlorofluoromethane	ND		ug/kg	6.2	0.48	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.14	1
Bromodichloromethane	ND		ug/kg	1.2	0.22	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
Bromoform	ND		ug/kg	5.0	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.15	1
Toluene	ND		ug/kg	1.9	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	6.2	0.36	1
Bromomethane	ND		ug/kg	2.5	0.42	1
Vinyl chloride	1.4	J	ug/kg	2.5	0.15	1
Chloroethane	ND		ug/kg	2.5	0.39	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.26	1
Trichloroethene	2.9		ug/kg	1.2	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	6.2	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	6.2	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	6.2	0.17	1

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**SAMPLE RESULTS**

**Lab ID:** L1515786-06  
**Client ID:** MW-5-45-47-7915  
**Sample Location:** 140 CORTLAND AVE-SYRACUSE, NY

**Date Collected:** 07/09/15 14:45  
**Date Received:** 07/09/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	2.5	0.10	1
p/m-Xylene	ND		ug/kg	2.5	0.25	1
o-Xylene	ND		ug/kg	2.5	0.21	1
cis-1,2-Dichloroethene	8.5		ug/kg	1.2	0.18	1
Styrene	ND		ug/kg	2.5	0.50	1
Dichlorodifluoromethane	ND		ug/kg	12	0.24	1
Acetone	ND		ug/kg	12	1.3	1
Carbon disulfide	ND		ug/kg	12	1.4	1
2-Butanone	ND		ug/kg	12	0.34	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
2-Hexanone	ND		ug/kg	12	0.83	1
Bromochloromethane	ND		ug/kg	6.2	0.34	1
1,2-Dibromoethane	ND		ug/kg	5.0	0.22	1
n-Butylbenzene	ND		ug/kg	1.2	0.14	1
sec-Butylbenzene	ND		ug/kg	1.2	0.15	1
tert-Butylbenzene	ND		ug/kg	6.2	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.2	0.49	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.16	1
Naphthalene	ND		ug/kg	6.2	0.17	1
n-Propylbenzene	ND		ug/kg	1.2	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.2	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.2	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.2	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.2	0.18	1
Methyl Acetate	ND		ug/kg	25	0.34	1
Cyclohexane	ND		ug/kg	25	0.18	1
1,4-Dioxane	ND		ug/kg	120	18.	1
Freon-113	ND		ug/kg	25	0.34	1
Methyl cyclohexane	ND		ug/kg	5.0	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	125		70-130
Dibromofluoromethane	104		70-130

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**SAMPLE RESULTS**

Lab ID: L1515786-07 D  
 Client ID: MW-5-17-19-7915  
 Sample Location: 140 CORTLAND AVE-SYRACUSE, NY  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/10/15 12:03  
 Analyst: BN  
 Percent Solids: 82%

Date Collected: 07/09/15 10:35  
 Date Received: 07/09/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	610	68.	50
1,1-Dichloroethane	ND		ug/kg	92	5.2	50
Chloroform	ND		ug/kg	92	23.	50
Carbon tetrachloride	ND		ug/kg	61	13.	50
1,2-Dichloropropane	ND		ug/kg	210	14.	50
Dibromochloromethane	ND		ug/kg	61	9.4	50
1,1,2-Trichloroethane	ND		ug/kg	92	19.	50
Tetrachloroethene	9100		ug/kg	61	8.6	50
Chlorobenzene	ND		ug/kg	61	21.	50
Trichlorofluoromethane	ND		ug/kg	310	24.	50
1,2-Dichloroethane	ND		ug/kg	61	7.0	50
1,1,1-Trichloroethane	ND		ug/kg	61	6.8	50
Bromodichloromethane	ND		ug/kg	61	11.	50
trans-1,3-Dichloropropene	ND		ug/kg	61	7.4	50
cis-1,3-Dichloropropene	ND		ug/kg	61	7.2	50
Bromoform	ND		ug/kg	240	14.	50
1,1,2,2-Tetrachloroethane	ND		ug/kg	61	6.2	50
Benzene	13	J	ug/kg	61	7.2	50
Toluene	ND		ug/kg	92	12.	50
Ethylbenzene	ND		ug/kg	61	7.8	50
Chloromethane	19	J	ug/kg	310	18.	50
Bromomethane	ND		ug/kg	120	21.	50
Vinyl chloride	81	J	ug/kg	120	7.2	50
Chloroethane	ND		ug/kg	120	19.	50
1,1-Dichloroethene	ND		ug/kg	61	16.	50
trans-1,2-Dichloroethene	34	J	ug/kg	92	13.	50
Trichloroethene	2000		ug/kg	61	7.7	50
1,2-Dichlorobenzene	ND		ug/kg	310	9.4	50
1,3-Dichlorobenzene	ND		ug/kg	310	8.3	50
1,4-Dichlorobenzene	ND		ug/kg	310	8.5	50

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**SAMPLE RESULTS**

Lab ID: L1515786-07 D  
 Client ID: MW-5-17-19-7915  
 Sample Location: 140 CORTLAND AVE-SYRACUSE, NY

Date Collected: 07/09/15 10:35  
 Date Received: 07/09/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	120	5.2	50
p/m-Xylene	ND		ug/kg	120	12.	50
o-Xylene	ND		ug/kg	120	10.	50
cis-1,2-Dichloroethene	3700		ug/kg	61	8.8	50
Styrene	ND		ug/kg	120	25.	50
Dichlorodifluoromethane	ND		ug/kg	610	12.	50
Acetone	ND		ug/kg	610	64.	50
Carbon disulfide	ND		ug/kg	610	68.	50
2-Butanone	ND		ug/kg	610	17.	50
4-Methyl-2-pentanone	ND		ug/kg	610	15.	50
2-Hexanone	ND		ug/kg	610	41.	50
Bromochloromethane	ND		ug/kg	310	17.	50
1,2-Dibromoethane	ND		ug/kg	240	11.	50
n-Butylbenzene	ND		ug/kg	61	7.0	50
sec-Butylbenzene	ND		ug/kg	61	7.5	50
tert-Butylbenzene	ND		ug/kg	310	8.3	50
1,2-Dibromo-3-chloropropane	ND		ug/kg	310	24.	50
Isopropylbenzene	ND		ug/kg	61	6.4	50
p-Isopropyltoluene	ND		ug/kg	61	7.7	50
Naphthalene	ND		ug/kg	310	8.5	50
n-Propylbenzene	ND		ug/kg	61	6.7	50
1,2,3-Trichlorobenzene	ND		ug/kg	310	9.0	50
1,2,4-Trichlorobenzene	ND		ug/kg	310	11.	50
1,3,5-Trimethylbenzene	ND		ug/kg	310	8.8	50
1,2,4-Trimethylbenzene	ND		ug/kg	310	8.7	50
Methyl Acetate	ND		ug/kg	1200	16.	50
Cyclohexane	ND		ug/kg	1200	9.0	50
1,4-Dioxane	ND		ug/kg	6100	880	50
Freon-113	ND		ug/kg	1200	17.	50
Methyl cyclohexane	ND		ug/kg	240	9.5	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	102		70-130

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**SAMPLE RESULTS**

Lab ID: L1515786-08  
 Client ID: TRIP BLANK-002-7915  
 Sample Location: 140 CORTLAND AVE-SYRACUSE, NY  
 Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 07/10/15 10:51  
 Analyst: PD

Date Collected: 07/09/15 00:00  
 Date Received: 07/09/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**SAMPLE RESULTS**

Lab ID: L1515786-08  
 Client ID: TRIP BLANK-002-7915  
 Sample Location: 140 CORTLAND AVE-SYRACUSE, NY

Date Collected: 07/09/15 00:00  
 Date Received: 07/09/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	104		70-130

Project Name: COYNE TEXTILE SERVICES MW INST

Lab Number: L1515786

Project Number: 21.0056730.40

Report Date: 07/10/15

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 07/10/15 08:53  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG801582-3					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
2-Chloroethylvinyl ether	ND		ug/kg	20	0.62
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.12
1,1-Dichloropropene	ND		ug/kg	5.0	0.14
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/10/15 08:53  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG801582-3					
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.20
o-Xylene	ND		ug/kg	2.0	0.17
Xylene (Total)	ND		ug/kg	2.0	0.17
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
1,2-Dichloroethene (total)	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
Vinyl acetate	ND		ug/kg	10	0.13
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.16
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
2,2-Dichloropropane	ND		ug/kg	5.0	0.23
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,3-Dichloropropane	ND		ug/kg	5.0	0.14
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
tert-Butylbenzene	ND		ug/kg	5.0	0.14

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/10/15 08:53  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG801582-3					
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.13
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.23
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
Isopropyl Ether	ND		ug/kg	4.0	0.14
tert-Butyl Alcohol	ND		ug/kg	60	2.9
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
Methyl Acetate	ND		ug/kg	20	0.27
Ethyl Acetate	ND		ug/kg	20	0.92
Acrolein	ND		ug/kg	25	8.1
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	0.27
1,4-Diethylbenzene	ND		ug/kg	4.0	0.16
4-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Tetrahydrofuran	ND		ug/kg	20	1.0
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39
Methyl cyclohexane	ND		ug/kg	4.0	0.15
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.12

**Project Name:** COYNE TEXTILE SERVICES MW INST**Lab Number:** L1515786**Project Number:** 21.0056730.40**Report Date:** 07/10/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 07/10/15 08:53  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG801582-3					
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.10

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	105		70-130

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/10/15 10:21  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG801611-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
2-Chloroethylvinyl ether	ND		ug/l	10	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70

Project Name: COYNE TEXTILE SERVICES MW INST

Lab Number: L1515786

Project Number: 21.0056730.40

Report Date: 07/10/15

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 07/10/15 10:21  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG801611-3					
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylene (Total)	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene (total)	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Isopropyl Ether	ND		ug/l	2.0	0.65
tert-Butyl Alcohol	ND		ug/l	10	0.90
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Acrolein	ND		ug/l	5.0	0.63
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/10/15 10:21  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG801611-3					
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Ethyl Acetate	ND		ug/l	10	0.70
Cyclohexane	ND		ug/l	10	0.27
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.5	0.70
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	0.28
1,4-Dioxane	ND		ug/l	250	41.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.70
1,4-Diethylbenzene	ND		ug/l	2.0	0.70
4-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Tetrahydrofuran	ND		ug/l	5.0	1.5
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

**Project Name:** COYNE TEXTILE SERVICES MW INST**Lab Number:** L1515786**Project Number:** 21.0056730.40**Report Date:** 07/10/15

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 07/10/15 10:21  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG801611-3					
Methyl cyclohexane	ND		ug/l	10	0.40

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	104		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES MW INST

**Lab Number:** L1515786

**Project Number:** 21.0056730.40

**Report Date:** 07/10/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG801582-1 WG801582-2								
Methylene chloride	99		99		70-130	0		30
1,1-Dichloroethane	104		104		70-130	0		30
Chloroform	104		105		70-130	1		30
Carbon tetrachloride	106		109		70-130	3		30
1,2-Dichloropropane	104		104		70-130	0		30
Dibromochloromethane	89		89		70-130	0		30
2-Chloroethylvinyl ether	120		114		70-130	5		30
1,1,2-Trichloroethane	93		91		70-130	2		30
Tetrachloroethene	99		100		70-130	1		30
Chlorobenzene	95		96		70-130	1		30
Trichlorofluoromethane	108		110		70-139	2		30
1,2-Dichloroethane	99		97		70-130	2		30
1,1,1-Trichloroethane	105		107		70-130	2		30
Bromodichloromethane	99		99		70-130	0		30
trans-1,3-Dichloropropene	89		87		70-130	2		30
cis-1,3-Dichloropropene	101		101		70-130	0		30
1,1-Dichloropropene	109		110		70-130	1		30
Bromoform	86		87		70-130	1		30
1,1,2,2-Tetrachloroethane	89		86		70-130	3		30
Benzene	102		104		70-130	2		30
Toluene	92		94		70-130	2		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES MW INST

**Lab Number:** L1515786

**Project Number:** 21.0056730.40

**Report Date:** 07/10/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG801582-1 WG801582-2								
Ethylbenzene	94		96		70-130	2		30
Chloromethane	88		85		52-130	3		30
Bromomethane	113		113		57-147	0		30
Vinyl chloride	94		95		67-130	1		30
Chloroethane	104		103		50-151	1		30
1,1-Dichloroethene	102		103		65-135	1		30
trans-1,2-Dichloroethene	105		105		70-130	0		30
Trichloroethene	106		108		70-130	2		30
1,2-Dichlorobenzene	92		92		70-130	0		30
1,3-Dichlorobenzene	93		92		70-130	1		30
1,4-Dichlorobenzene	92		93		70-130	1		30
Methyl tert butyl ether	100		97		66-130	3		30
p/m-Xylene	97		97		70-130	0		30
o-Xylene	95		96		70-130	1		30
cis-1,2-Dichloroethene	105		106		70-130	1		30
Dibromomethane	103		102		70-130	1		30
Styrene	94		96		70-130	2		30
Dichlorodifluoromethane	100		103		30-146	3		30
Acetone	94		89		54-140	5		30
Carbon disulfide	93		95		59-130	2		30
2-Butanone	98		92		70-130	6		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES MW INST

**Lab Number:** L1515786

**Project Number:** 21.0056730.40

**Report Date:** 07/10/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG801582-1 WG801582-2								
Vinyl acetate	97		94		70-130	3		30
4-Methyl-2-pentanone	101		97		70-130	4		30
1,2,3-Trichloropropane	88		86		68-130	2		30
2-Hexanone	76		74		70-130	3		30
Bromochloromethane	109		107		70-130	2		30
2,2-Dichloropropane	101		101		70-130	0		30
1,2-Dibromoethane	92		92		70-130	0		30
1,3-Dichloropropane	93		91		69-130	2		30
1,1,1,2-Tetrachloroethane	92		93		70-130	1		30
Bromobenzene	92		91		70-130	1		30
n-Butylbenzene	96		95		70-130	1		30
sec-Butylbenzene	94		95		70-130	1		30
tert-Butylbenzene	93		94		70-130	1		30
o-Chlorotoluene	90		90		70-130	0		30
p-Chlorotoluene	92		90		70-130	2		30
1,2-Dibromo-3-chloropropane	87		84		68-130	4		30
Hexachlorobutadiene	96		95		67-130	1		30
Isopropylbenzene	96		98		70-130	2		30
p-Isopropyltoluene	94		94		70-130	0		30
Naphthalene	86		84		70-130	2		30
Acrylonitrile	101		98		70-130	3		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES MW INST

**Lab Number:** L1515786

**Project Number:** 21.0056730.40

**Report Date:** 07/10/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG801582-1 WG801582-2								
Diisopropyl Ether	99		97		66-130	2		30
Tert-Butyl Alcohol	96		92		70-130	4		30
n-Propylbenzene	93		93		70-130	0		30
1,2,3-Trichlorobenzene	92		89		70-130	3		30
1,2,4-Trichlorobenzene	95		93		70-130	2		30
1,3,5-Trimethylbenzene	93		93		70-130	0		30
1,2,4-Trimethylbenzene	91		91		70-130	0		30
Methyl Acetate	94		90		51-146	4		30
Ethyl Acetate	82		83		70-130	1		30
Acrolein	97		80		70-130	19		30
Cyclohexane	112		114		59-142	2		30
1,4-Dioxane	102		100		65-136	2		30
Freon-113	100		102		50-139	2		30
p-Diethylbenzene	110		110		70-130	0		30
p-Ethyltoluene	109		109		70-130	0		30
1,2,4,5-Tetramethylbenzene	108		107		70-130	1		30
Tetrahydrofuran	88		83		66-130	6		30
Ethyl ether	93		92		67-130	1		30
trans-1,4-Dichloro-2-butene	81		78		70-130	4		30
Methyl cyclohexane	116		117		70-130	1		30
Ethyl-Tert-Butyl-Ether	101		99		70-130	2		30

### Lab Control Sample Analysis

#### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES MW INST

**Lab Number:** L1515786

**Project Number:** 21.0056730.40

**Report Date:** 07/10/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG801582-1 WG801582-2								
Tertiary-Amyl Methyl Ether	100		98		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		91		70-130
Toluene-d8	93		93		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	102		101		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES MW INST

**Lab Number:** L1515786

**Project Number:** 21.0056730.40

**Report Date:** 07/10/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG801611-1 WG801611-2								
Methylene chloride	102		102		70-130	0		20
1,1-Dichloroethane	100		99		70-130	1		20
Chloroform	106		106		70-130	0		20
2-Chloroethylvinyl ether	63	Q	63	Q	70-130	0		20
Carbon tetrachloride	117		117		63-132	0		20
1,2-Dichloropropane	94		94		70-130	0		20
Dibromochloromethane	108		108		63-130	0		20
1,1,2-Trichloroethane	102		107		70-130	5		20
Tetrachloroethene	108		106		70-130	2		20
Chlorobenzene	107		105		75-130	2		20
Trichlorofluoromethane	133		131		62-150	2		20
1,2-Dichloroethane	98		100		70-130	2		20
1,1,1-Trichloroethane	107		106		67-130	1		20
Bromodichloromethane	104		102		67-130	2		20
trans-1,3-Dichloropropene	104		104		70-130	0		20
cis-1,3-Dichloropropene	101		101		70-130	0		20
1,1-Dichloropropene	102		99		70-130	3		20
Bromoform	101		106		54-136	5		20
1,1,2,2-Tetrachloroethane	99		105		67-130	6		20
Benzene	102		101		70-130	1		20
Toluene	111		108		70-130	3		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES MW INST

**Lab Number:** L1515786

**Project Number:** 21.0056730.40

**Report Date:** 07/10/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG801611-1 WG801611-2								
Ethylbenzene	110		107		70-130	3		20
Chloromethane	71		70		64-130	1		20
Bromomethane	104		106		39-139	2		20
Vinyl chloride	98		95		55-140	3		20
Chloroethane	124		118		55-138	5		20
1,1-Dichloroethene	104		104		61-145	0		20
trans-1,2-Dichloroethene	103		101		70-130	2		20
Trichloroethene	106		104		70-130	2		20
1,2-Dichlorobenzene	103		102		70-130	1		20
1,3-Dichlorobenzene	104		102		70-130	2		20
1,4-Dichlorobenzene	103		102		70-130	1		20
Methyl tert butyl ether	91		96		63-130	5		20
p/m-Xylene	111		108		70-130	3		20
o-Xylene	110		107		70-130	3		20
cis-1,2-Dichloroethene	100		99		70-130	1		20
Dibromomethane	100		104		70-130	4		20
1,2,3-Trichloropropane	103		110		64-130	7		20
Acrylonitrile	73		77		70-130	5		20
Diisopropyl Ether	75		75		70-130	0		20
Tert-Butyl Alcohol	91		105		70-130	14		20
Styrene	111		109		70-130	2		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES MW INST

**Lab Number:** L1515786

**Project Number:** 21.0056730.40

**Report Date:** 07/10/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG801611-1 WG801611-2								
Dichlorodifluoromethane	122		115		36-147	6		20
Acetone	95		100		58-148	5		20
Carbon disulfide	99		96		51-130	3		20
2-Butanone	79		86		63-138	8		20
Vinyl acetate	72		76		70-130	5		20
4-Methyl-2-pentanone	68		77		59-130	12		20
2-Hexanone	69		75		57-130	8		20
Acrolein	64		70		40-160	9		20
Bromochloromethane	104		106		70-130	2		20
2,2-Dichloropropane	116		114		63-133	2		20
1,2-Dibromoethane	100		103		70-130	3		20
1,3-Dichloropropane	104		107		70-130	3		20
1,1,1,2-Tetrachloroethane	110		110		64-130	0		20
Bromobenzene	102		104		70-130	2		20
n-Butylbenzene	112		111		53-136	1		20
sec-Butylbenzene	111		109		70-130	2		20
tert-Butylbenzene	106		106		70-130	0		20
o-Chlorotoluene	107		110		70-130	3		20
p-Chlorotoluene	110		109		70-130	1		20
1,2-Dibromo-3-chloropropane	99		102		41-144	3		20
Hexachlorobutadiene	110		113		63-130	3		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES MW INST

**Lab Number:** L1515786

**Project Number:** 21.0056730.40

**Report Date:** 07/10/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG801611-1 WG801611-2								
Isopropylbenzene	107		107		70-130	0		20
p-Isopropyltoluene	110		109		70-130	1		20
Naphthalene	81		87		70-130	7		20
n-Propylbenzene	111		109		69-130	2		20
1,2,3-Trichlorobenzene	93		97		70-130	4		20
1,2,4-Trichlorobenzene	95		98		70-130	3		20
1,3,5-Trimethylbenzene	111		110		64-130	1		20
1,2,4-Trimethylbenzene	111		109		70-130	2		20
Methyl Acetate	69	Q	75		70-130	8		20
Ethyl Acetate	66	Q	69	Q	70-130	4		20
Cyclohexane	85		84		70-130	1		20
Ethyl-Tert-Butyl-Ether	84		86		70-130	2		20
Tertiary-Amyl Methyl Ether	92		94		66-130	2		20
1,4-Dioxane	130		132		56-162	2		20
Freon-113	109		108		70-130	1		20
p-Diethylbenzene	108		106		70-130	2		20
p-Ethyltoluene	109		108		70-130	1		20
1,2,4,5-Tetramethylbenzene	102		102		70-130	0		20
Ethyl ether	96		100		59-134	4		20
trans-1,4-Dichloro-2-butene	69	Q	73		70-130	6		20
Methyl cyclohexane	105		103		70-130	2		20

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** COYNE TEXTILE SERVICES MW INST**Lab Number:** L1515786**Project Number:** 21.0056730.40**Report Date:** 07/10/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
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Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG801611-1 WG801611-2

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
1,2-Dichloroethane-d4	101		105		70-130
Toluene-d8	109		109		70-130
4-Bromofluorobenzene	106		108		70-130
Dibromofluoromethane	102		104		70-130

# SEMIVOLATILES

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**SAMPLE RESULTS**

Lab ID: L1515786-01  
 Client ID: MW-5-5-7-7915  
 Sample Location: 140 CORTLAND AVE-SYRACUSE, NY  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/10/15 10:46  
 Analyst: JB  
 Percent Solids: 66%

Date Collected: 07/09/15 10:05  
 Date Received: 07/09/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/10/15 01:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	56	J	ug/kg	200	51.	1
1,2,4-Trichlorobenzene	ND		ug/kg	250	81.	1
Hexachlorobenzene	ND		ug/kg	150	46.	1
Bis(2-chloroethyl)ether	ND		ug/kg	220	69.	1
2-Chloronaphthalene	ND		ug/kg	250	80.	1
1,2-Dichlorobenzene	ND		ug/kg	250	81.	1
1,3-Dichlorobenzene	ND		ug/kg	250	78.	1
1,4-Dichlorobenzene	ND		ug/kg	250	75.	1
3,3'-Dichlorobenzidine	ND		ug/kg	250	66.	1
2,4-Dinitrotoluene	ND		ug/kg	250	53.	1
2,6-Dinitrotoluene	ND		ug/kg	250	63.	1
Fluoranthene	970		ug/kg	150	45.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	250	75.	1
4-Bromophenyl phenyl ether	ND		ug/kg	250	57.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	300	87.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	270	75.	1
Hexachlorobutadiene	ND		ug/kg	250	70.	1
Hexachlorocyclopentadiene	ND		ug/kg	700	160	1
Hexachloroethane	ND		ug/kg	200	45.	1
Isophorone	ND		ug/kg	220	66.	1
Naphthalene	190	J	ug/kg	250	82.	1
Nitrobenzene	ND		ug/kg	220	59.	1
NDPA/DPA	ND		ug/kg	200	52.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	250	74.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	250	65.	1
Butyl benzyl phthalate	ND		ug/kg	250	48.	1
Di-n-butylphthalate	ND		ug/kg	250	48.	1
Di-n-octylphthalate	ND		ug/kg	250	61.	1
Diethyl phthalate	ND		ug/kg	250	52.	1
Dimethyl phthalate	ND		ug/kg	250	63.	1

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**SAMPLE RESULTS**

**Lab ID:** L1515786-01  
**Client ID:** MW-5-5-7-7915  
**Sample Location:** 140 CORTLAND AVE-SYRACUSE, NY

**Date Collected:** 07/09/15 10:05  
**Date Received:** 07/09/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Benzo(a)anthracene	460		ug/kg	150	48.	1
Benzo(a)pyrene	460		ug/kg	200	60.	1
Benzo(b)fluoranthene	520		ug/kg	150	50.	1
Benzo(k)fluoranthene	210		ug/kg	150	47.	1
Chrysene	440		ug/kg	150	48.	1
Acenaphthylene	ND		ug/kg	200	46.	1
Anthracene	150		ug/kg	150	41.	1
Benzo(ghi)perylene	280		ug/kg	200	51.	1
Fluorene	91	J	ug/kg	250	71.	1
Phenanthrene	460		ug/kg	150	48.	1
Dibenzo(a,h)anthracene	71	J	ug/kg	150	48.	1
Indeno(1,2,3-cd)pyrene	320		ug/kg	200	55.	1
Pyrene	850		ug/kg	150	48.	1
Biphenyl	ND		ug/kg	560	81.	1
4-Chloroaniline	ND		ug/kg	250	65.	1
2-Nitroaniline	ND		ug/kg	250	70.	1
3-Nitroaniline	ND		ug/kg	250	68.	1
4-Nitroaniline	ND		ug/kg	250	67.	1
Dibenzofuran	ND		ug/kg	250	82.	1
2-Methylnaphthalene	ND		ug/kg	300	79.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	250	76.	1
Acetophenone	ND		ug/kg	250	76.	1
Benzyl Alcohol	ND		ug/kg	250	76.	1
Carbazole	64	J	ug/kg	250	53.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	91		30-120
2,4,6-Tribromophenol	109		10-136
4-Terphenyl-d14	105		18-120

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 07/10/15 08:34  
**Analyst:** JB

**Extraction Method:** EPA 3546  
**Extraction Date:** 07/10/15 01:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG801415-1					
Acenaphthene	ND		ug/kg	130	33.
1,2,4-Trichlorobenzene	ND		ug/kg	160	53.
Hexachlorobenzene	ND		ug/kg	97	30.
Bis(2-chloroethyl)ether	ND		ug/kg	140	45.
2-Chloronaphthalene	ND		ug/kg	160	53.
1,2-Dichlorobenzene	ND		ug/kg	160	53.
1,3-Dichlorobenzene	ND		ug/kg	160	51.
1,4-Dichlorobenzene	ND		ug/kg	160	49.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	35.
2,6-Dinitrotoluene	ND		ug/kg	160	41.
Fluoranthene	ND		ug/kg	97	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	49.
4-Bromophenyl phenyl ether	ND		ug/kg	160	37.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	57.
Bis(2-chloroethoxy)methane	ND		ug/kg	170	49.
Hexachlorobutadiene	ND		ug/kg	160	46.
Hexachlorocyclopentadiene	ND		ug/kg	460	100
Hexachloroethane	ND		ug/kg	130	29.
Isophorone	ND		ug/kg	140	43.
Naphthalene	ND		ug/kg	160	54.
Nitrobenzene	ND		ug/kg	140	38.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	34.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	48.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	42.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	40.
Diethyl phthalate	ND		ug/kg	160	34.

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 07/10/15 08:34  
Analyst: JB

Extraction Method: EPA 3546  
Extraction Date: 07/10/15 01:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG801415-1					
Dimethyl phthalate	ND		ug/kg	160	41.
Benzo(a)anthracene	ND		ug/kg	97	32.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	33.
Benzo(k)fluoranthene	ND		ug/kg	97	31.
Chrysene	ND		ug/kg	97	32.
Acenaphthylene	ND		ug/kg	130	30.
Anthracene	ND		ug/kg	97	27.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	46.
Phenanthrene	ND		ug/kg	97	32.
Dibenzo(a,h)anthracene	ND		ug/kg	97	31.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	36.
Pyrene	ND		ug/kg	97	31.
Biphenyl	ND		ug/kg	370	53.
4-Chloroaniline	ND		ug/kg	160	43.
2-Nitroaniline	ND		ug/kg	160	46.
3-Nitroaniline	ND		ug/kg	160	45.
4-Nitroaniline	ND		ug/kg	160	44.
Dibenzofuran	ND		ug/kg	160	54.
2-Methylnaphthalene	ND		ug/kg	190	52.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	50.
Acetophenone	ND		ug/kg	160	50.
2,4,6-Trichlorophenol	ND		ug/kg	97	30.
P-Chloro-M-Cresol	ND		ug/kg	160	47.
2-Chlorophenol	ND		ug/kg	160	49.
2,4-Dichlorophenol	ND		ug/kg	140	52.
2,4-Dimethylphenol	ND		ug/kg	160	48.
2-Nitrophenol	ND		ug/kg	350	50.

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**Method Blank Analysis  
Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 07/10/15 08:34  
**Analyst:** JB

**Extraction Method:** EPA 3546  
**Extraction Date:** 07/10/15 01:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG801415-1					
4-Nitrophenol	ND		ug/kg	230	52.
2,4-Dinitrophenol	ND		ug/kg	780	220
4,6-Dinitro-o-cresol	ND		ug/kg	420	59.
Pentachlorophenol	ND		ug/kg	130	35.
Phenol	ND		ug/kg	160	48.
2-Methylphenol	ND		ug/kg	160	52.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	53.
2,4,5-Trichlorophenol	ND		ug/kg	160	52.
Benzoic Acid	ND		ug/kg	520	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	98		18-120

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES MW INST

**Lab Number:** L1515786

**Project Number:** 21.0056730.40

**Report Date:** 07/10/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG801415-2 WG801415-3								
Acenaphthene	82		76		31-137	8		50
1,2,4-Trichlorobenzene	79		75		38-107	5		50
Hexachlorobenzene	84		77		40-140	9		50
Bis(2-chloroethyl)ether	80		76		40-140	5		50
2-Chloronaphthalene	82		76		40-140	8		50
1,2-Dichlorobenzene	75		70		40-140	7		50
1,3-Dichlorobenzene	74		71		40-140	4		50
1,4-Dichlorobenzene	75		71		28-104	5		50
3,3'-Dichlorobenzidine	76		74		40-140	3		50
2,4-Dinitrotoluene	90	Q	83		28-89	8		50
2,6-Dinitrotoluene	87		81		40-140	7		50
Fluoranthene	87		80		40-140	8		50
4-Chlorophenyl phenyl ether	86		77		40-140	11		50
4-Bromophenyl phenyl ether	85		76		40-140	11		50
Bis(2-chloroisopropyl)ether	85		80		40-140	6		50
Bis(2-chloroethoxy)methane	83		76		40-117	9		50
Hexachlorobutadiene	77		74		40-140	4		50
Hexachlorocyclopentadiene	65		62		40-140	5		50
Hexachloroethane	74		71		40-140	4		50
Isophorone	82		77		40-140	6		50
Naphthalene	77		73		40-140	5		50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES MW INST

**Lab Number:** L1515786

**Project Number:** 21.0056730.40

**Report Date:** 07/10/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG801415-2 WG801415-3								
Nitrobenzene	81		78		40-140	4		50
NitrosoDiPhenylAmine(NDPA)/DPA	87		79		36-157	10		50
n-Nitrosodi-n-propylamine	83		79		32-121	5		50
Bis(2-Ethylhexyl)phthalate	84		78		40-140	7		50
Butyl benzyl phthalate	87		81		40-140	7		50
Di-n-butylphthalate	84		80		40-140	5		50
Di-n-octylphthalate	85		80		40-140	6		50
Diethyl phthalate	86		78		40-140	10		50
Dimethyl phthalate	86		80		40-140	7		50
Benzo(a)anthracene	85		80		40-140	6		50
Benzo(a)pyrene	89		81		40-140	9		50
Benzo(b)fluoranthene	85		80		40-140	6		50
Benzo(k)fluoranthene	88		81		40-140	8		50
Chrysene	81		76		40-140	6		50
Acenaphthylene	83		77		40-140	8		50
Anthracene	84		78		40-140	7		50
Benzo(ghi)perylene	88		81		40-140	8		50
Fluorene	87		78		40-140	11		50
Phenanthrene	82		76		40-140	8		50
Dibenzo(a,h)anthracene	88		79		40-140	11		50
Indeno(1,2,3-cd)Pyrene	88		82		40-140	7		50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES MW INST

**Lab Number:** L1515786

**Project Number:** 21.0056730.40

**Report Date:** 07/10/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG801415-2 WG801415-3								
Pyrene	86		79		35-142	8		50
Biphenyl	84		78		54-104	7		50
4-Chloroaniline	100		89		40-140	12		50
2-Nitroaniline	89		82		47-134	8		50
3-Nitroaniline	76		69		26-129	10		50
4-Nitroaniline	89		80		41-125	11		50
Dibenzofuran	84		77		40-140	9		50
2-Methylnaphthalene	82		77		40-140	6		50
1,2,4,5-Tetrachlorobenzene	82		77		40-117	6		50
Acetophenone	87		81		14-144	7		50
2,4,6-Trichlorophenol	86		80		30-130	7		50
P-Chloro-M-Cresol	88		80		26-103	10		50
2-Chlorophenol	82		78		25-102	5		50
2,4-Dichlorophenol	89		82		30-130	8		50
2,4-Dimethylphenol	85		79		30-130	7		50
2-Nitrophenol	82		79		30-130	4		50
4-Nitrophenol	90		83		11-114	8		50
2,4-Dinitrophenol	18		22		4-130	20		50
4,6-Dinitro-o-cresol	54		51		10-130	6		50
Pentachlorophenol	73		68		17-109	7		50
Phenol	85		80		26-90	6		50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES MW INST

**Lab Number:** L1515786

**Project Number:** 21.0056730.40

**Report Date:** 07/10/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG801415-2 WG801415-3								
2-Methylphenol	85		79		30-130.	7		50
3-Methylphenol/4-Methylphenol	90		80		30-130	12		50
2,4,5-Trichlorophenol	91		84		30-130	8		50
Benzoic Acid	0	Q	0	Q	10-66	NC		50
Benzyl Alcohol	82		84		40-140	2		50
Carbazole	84		79		54-128	6		50

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2-Fluorophenol	84		79		25-120
Phenol-d6	86		80		10-120
Nitrobenzene-d5	85		78		23-120
2-Fluorobiphenyl	83		77		30-120
2,4,6-Tribromophenol	90		84		10-136
4-Terphenyl-d14	85		77		18-120

# **INORGANICS & MISCELLANEOUS**

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**SAMPLE RESULTS**

**Lab ID:** L1515786-01  
**Client ID:** MW-5-5-7-7915  
**Sample Location:** 140 CORTLAND AVE-SYRACUSE, NY  
**Matrix:** Soil

**Date Collected:** 07/09/15 10:05  
**Date Received:** 07/09/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	66.0		%	0.100	NA	1	-	07/10/15 02:12	30,2540G	RT



**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**SAMPLE RESULTS**

**Lab ID:** L1515786-02  
**Client ID:** MW-5-11-13-7915  
**Sample Location:** 140 CORTLAND AVE-SYRACUSE, NY  
**Matrix:** Soil

**Date Collected:** 07/09/15 10:20  
**Date Received:** 07/09/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	63.5		%	0.100	NA	1	-	07/10/15 02:12	30,2540G	RT



**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**SAMPLE RESULTS**

**Lab ID:** L1515786-03  
**Client ID:** MW-5-19-21-7915  
**Sample Location:** 140 CORTLAND AVE-SYRACUSE, NY  
**Matrix:** Soil

**Date Collected:** 07/09/15 10:40  
**Date Received:** 07/09/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.4		%	0.100	NA	1	-	07/10/15 02:12	30,2540G	RT



**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**SAMPLE RESULTS**

**Lab ID:** L1515786-04  
**Client ID:** MW-5-29-31-7915  
**Sample Location:** 140 CORTLAND AVE-SYRACUSE, NY  
**Matrix:** Soil

**Date Collected:** 07/09/15 11:10  
**Date Received:** 07/09/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.7		%	0.100	NA	1	-	07/10/15 02:12	30,2540G	RT



**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**SAMPLE RESULTS**

**Lab ID:** L1515786-05  
**Client ID:** MW-5-35-37-7915  
**Sample Location:** 140 CORTLAND AVE-SYRACUSE, NY  
**Matrix:** Soil

**Date Collected:** 07/09/15 12:35  
**Date Received:** 07/09/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.7		%	0.100	NA	1	-	07/10/15 02:12	30,2540G	RT



**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**SAMPLE RESULTS**

**Lab ID:** L1515786-06  
**Client ID:** MW-5-45-47-7915  
**Sample Location:** 140 CORTLAND AVE-SYRACUSE, NY  
**Matrix:** Soil

**Date Collected:** 07/09/15 14:45  
**Date Received:** 07/09/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.4		%	0.100	NA	1	-	07/10/15 02:12	30,2540G	RT



**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

**SAMPLE RESULTS**

**Lab ID:** L1515786-07  
**Client ID:** MW-5-17-19-7915  
**Sample Location:** 140 CORTLAND AVE-SYRACUSE, NY  
**Matrix:** Soil

**Date Collected:** 07/09/15 10:35  
**Date Received:** 07/09/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.5		%	0.100	NA	1	-	07/10/15 02:12	30,2540G	RT



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES MW INST

**Project Number:** 21.0056730.40

**Lab Number:** L1515786

**Report Date:** 07/10/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG801414-1 QC Sample: L1515698-01 Client ID: DUP Sample						
Solids, Total	89.4	89.3	%	0		20

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

### Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

#### Cooler Information Custody Seal

##### Cooler

A Absent

#### Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1515786-01A	Glass 60mL/2oz unpreserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1515786-01B	Glass 120ml/4oz unpreserved	A	N/A	3.1	Y	Absent	NYTCL-8270(14),TS(7)
L1515786-02A	Glass 60mL/2oz unpreserved	A	N/A	3.1	Y	Absent	TS(7),NYTCL-8260(14)
L1515786-03A	Glass 60mL/2oz unpreserved	A	N/A	3.1	Y	Absent	TS(7),NYTCL-8260(14)
L1515786-04A	Glass 60mL/2oz unpreserved	A	N/A	3.1	Y	Absent	TS(7),NYTCL-8260(14)
L1515786-05A	Glass 60mL/2oz unpreserved	A	N/A	3.1	Y	Absent	TS(7),NYTCL-8260(14)
L1515786-06A	Glass 60mL/2oz unpreserved	A	N/A	3.1	Y	Absent	TS(7),NYTCL-8260(14)
L1515786-07A	Glass 60mL/2oz unpreserved	A	N/A	3.1	Y	Absent	TS(7),NYTCL-8260(14)
L1515786-08A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1515786-08B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1515786-08C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)

\*Values in parentheses indicate holding time in days

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

## 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.
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).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

#### Data Qualifiers

- 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.

**Project Name:** COYNE TEXTILE SERVICES MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1515786  
**Report Date:** 07/10/15

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

## 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

Last revised December 16, 2014

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**The following analytes are not included in our NELAP Scope of Accreditation:**

### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**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.

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**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,Tl; **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,Tl,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.**

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For a complete listing of analytes and methods, please contact your Alpha Project Manager.





## ANALYTICAL REPORT

Lab Number:	L1516038
Client:	The Palmerton Group 535 Washington Street 11th Floor Buffalo, NY 14203
ATTN:	Thomas Bohlen
Phone:	(716) 844-7050
Project Name:	COYNE TECTILE SERVICES-MW INST
Project Number:	21.0056730.40
Report Date:	07/14/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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).

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1516038-01	MW-6-5-7_071315	SOIL	140 CORTLAND AVE., SYRACUSE, NY 13202	07/13/15 09:35	07/13/15
L1516038-02	MW-6-13-15_071315	SOIL	140 CORTLAND AVE., SYRACUSE, NY 13202	07/13/15 10:00	07/13/15
L1516038-03	MW-6-17-19_071315	SOIL	140 CORTLAND AVE., SYRACUSE, NY 13202	07/13/15 10:10	07/13/15
L1516038-04	MW-6-23-25_071315	SOIL	140 CORTLAND AVE., SYRACUSE, NY 13202	07/13/15 11:00	07/13/15
L1516038-05	MW-6-31-33_071315	SOIL	140 CORTLAND AVE., SYRACUSE, NY 13202	07/13/15 11:25	07/13/15
L1516038-06	MW-6-35-37_071315	SOIL	140 CORTLAND AVE., SYRACUSE, NY 13202	07/13/15 11:50	07/13/15
L1516038-07	MW-6-49-51_071315	SOIL	140 CORTLAND AVE., SYRACUSE, NY 13202	07/13/15 13:50	07/13/15
L1516038-08	MW-6-53-55_071315	SOIL	140 CORTLAND AVE., SYRACUSE, NY 13202	07/13/15 14:10	07/13/15
L1516038-09	TRIP BLANK-003-071315	WATER	140 CORTLAND AVE., SYRACUSE, NY 13202	07/13/15 00:00	07/13/15

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

### 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 all of the requirements of NELAC, for all NELAC accredited parameters. 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.

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**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

### 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.

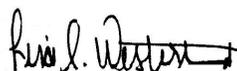
#### Volatile Organics

L1516038-07: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (27%) and the surrogate recovery for 4-bromofluorobenzene (161%) were outside the acceptance criteria; however, re-analysis achieved similar results: 1,4-dichlorobenzene-d4 (37%) and 4-bromofluorobenzene (144%). The results of both analyses are reported; however, since the IS response was below method criteria, all associated compounds and surrogate recoveries are considered to have a potentially high bias.

L1516038-08: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (35%) and the surrogate recovery for 4-bromofluorobenzene (149%) were outside the acceptance criteria; however, re-analysis achieved similar results: 1,4-dichlorobenzene-d4 (34%) and 4-bromofluorobenzene (149%). The results of both analyses are reported; however, since the IS response was below method criteria, all associated compounds and surrogate recoveries are considered to have a potentially high bias.

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:

 Lisa Westerlind

Title: Technical Director/Representative

Date: 07/14/15

# ORGANICS

# VOLATILES

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

Lab ID: L1516038-01  
 Client ID: MW-6-5-7\_071315  
 Sample Location: 140 CORTLAND AVE., SYRACUSE, NY 13202  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/14/15 09:57  
 Analyst: BN  
 Percent Solids: 73%

Date Collected: 07/13/15 09:35  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	14	1.5	1
1,1-Dichloroethane	ND		ug/kg	2.1	0.12	1
Chloroform	ND		ug/kg	2.1	0.51	1
Carbon tetrachloride	ND		ug/kg	1.4	0.29	1
1,2-Dichloropropane	ND		ug/kg	4.8	0.31	1
Dibromochloromethane	ND		ug/kg	1.4	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	2.1	0.42	1
Tetrachloroethene	19		ug/kg	1.4	0.19	1
Chlorobenzene	ND		ug/kg	1.4	0.48	1
Trichlorofluoromethane	ND		ug/kg	6.9	0.53	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.15	1
Bromodichloromethane	ND		ug/kg	1.4	0.24	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.17	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.16	1
Bromoform	ND		ug/kg	5.5	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.14	1
Benzene	ND		ug/kg	1.4	0.16	1
Toluene	ND		ug/kg	2.1	0.27	1
Ethylbenzene	ND		ug/kg	1.4	0.18	1
Chloromethane	ND		ug/kg	6.9	0.40	1
Bromomethane	ND		ug/kg	2.8	0.46	1
Vinyl chloride	ND		ug/kg	2.8	0.16	1
Chloroethane	ND		ug/kg	2.8	0.44	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.36	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.29	1
Trichloroethene	0.98	J	ug/kg	1.4	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	6.9	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	6.9	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	6.9	0.19	1

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

**Lab ID:** L1516038-01  
**Client ID:** MW-6-5-7\_071315  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, NY 13202

**Date Collected:** 07/13/15 09:35  
**Date Received:** 07/13/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	2.8	0.12	1
p/m-Xylene	ND		ug/kg	2.8	0.27	1
o-Xylene	ND		ug/kg	2.8	0.24	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.20	1
Styrene	ND		ug/kg	2.8	0.55	1
Dichlorodifluoromethane	ND		ug/kg	14	0.26	1
Acetone	ND		ug/kg	14	1.4	1
Carbon disulfide	ND		ug/kg	14	1.5	1
2-Butanone	ND		ug/kg	14	0.37	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.34	1
2-Hexanone	ND		ug/kg	14	0.92	1
Bromochloromethane	ND		ug/kg	6.9	0.38	1
1,2-Dibromoethane	ND		ug/kg	5.5	0.24	1
n-Butylbenzene	ND		ug/kg	1.4	0.16	1
sec-Butylbenzene	ND		ug/kg	1.4	0.17	1
tert-Butylbenzene	ND		ug/kg	6.9	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.9	0.54	1
Isopropylbenzene	ND		ug/kg	1.4	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.17	1
Naphthalene	ND		ug/kg	6.9	0.19	1
n-Propylbenzene	ND		ug/kg	1.4	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.9	0.20	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.9	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.9	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.9	0.19	1
Methyl Acetate	ND		ug/kg	28	0.37	1
Cyclohexane	ND		ug/kg	28	0.20	1
1,4-Dioxane	ND		ug/kg	140	20.	1
Freon-113	ND		ug/kg	28	0.38	1
Methyl cyclohexane	ND		ug/kg	5.5	0.21	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	107		70-130

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

Lab ID: L1516038-02  
 Client ID: MW-6-13-15\_071315  
 Sample Location: 140 CORTLAND AVE., SYRACUSE, NY 13202  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/14/15 10:24  
 Analyst: BN  
 Percent Solids: 63%

Date Collected: 07/13/15 10:00  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	16	1.7	1
1,1-Dichloroethane	ND		ug/kg	2.4	0.14	1
Chloroform	ND		ug/kg	2.4	0.58	1
Carbon tetrachloride	ND		ug/kg	1.6	0.33	1
1,2-Dichloropropane	ND		ug/kg	5.5	0.36	1
Dibromochloromethane	ND		ug/kg	1.6	0.24	1
1,1,2-Trichloroethane	ND		ug/kg	2.4	0.48	1
Tetrachloroethene	ND		ug/kg	1.6	0.22	1
Chlorobenzene	ND		ug/kg	1.6	0.55	1
Trichlorofluoromethane	ND		ug/kg	7.9	0.61	1
1,2-Dichloroethane	ND		ug/kg	1.6	0.18	1
1,1,1-Trichloroethane	ND		ug/kg	1.6	0.18	1
Bromodichloromethane	ND		ug/kg	1.6	0.27	1
trans-1,3-Dichloropropene	ND		ug/kg	1.6	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	1.6	0.19	1
Bromoform	ND		ug/kg	6.3	0.37	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.6	0.16	1
Benzene	ND		ug/kg	1.6	0.19	1
Toluene	ND		ug/kg	2.4	0.31	1
Ethylbenzene	ND		ug/kg	1.6	0.20	1
Chloromethane	ND		ug/kg	7.9	0.46	1
Bromomethane	ND		ug/kg	3.2	0.53	1
Vinyl chloride	59		ug/kg	3.2	0.18	1
Chloroethane	ND		ug/kg	3.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.6	0.41	1
trans-1,2-Dichloroethene	23		ug/kg	2.4	0.34	1
Trichloroethene	ND		ug/kg	1.6	0.20	1
1,2-Dichlorobenzene	ND		ug/kg	7.9	0.24	1
1,3-Dichlorobenzene	ND		ug/kg	7.9	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	7.9	0.22	1

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

**Lab ID:** L1516038-02  
**Client ID:** MW-6-13-15\_071315  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, NY 13202

**Date Collected:** 07/13/15 10:00  
**Date Received:** 07/13/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	3.2	0.13	1
p/m-Xylene	ND		ug/kg	3.2	0.31	1
o-Xylene	ND		ug/kg	3.2	0.27	1
cis-1,2-Dichloroethene	82		ug/kg	1.6	0.22	1
Styrene	ND		ug/kg	3.2	0.64	1
Dichlorodifluoromethane	ND		ug/kg	16	0.30	1
Acetone	38		ug/kg	16	1.6	1
Carbon disulfide	ND		ug/kg	16	1.7	1
2-Butanone	5.9	J	ug/kg	16	0.43	1
4-Methyl-2-pentanone	ND		ug/kg	16	0.39	1
2-Hexanone	ND		ug/kg	16	1.0	1
Bromochloromethane	ND		ug/kg	7.9	0.44	1
1,2-Dibromoethane	ND		ug/kg	6.3	0.28	1
n-Butylbenzene	ND		ug/kg	1.6	0.18	1
sec-Butylbenzene	ND		ug/kg	1.6	0.19	1
tert-Butylbenzene	ND		ug/kg	7.9	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.9	0.63	1
Isopropylbenzene	ND		ug/kg	1.6	0.16	1
p-Isopropyltoluene	ND		ug/kg	1.6	0.20	1
Naphthalene	ND		ug/kg	7.9	0.22	1
n-Propylbenzene	ND		ug/kg	1.6	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.9	0.23	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.9	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.9	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.9	0.22	1
Methyl Acetate	ND		ug/kg	32	0.43	1
Cyclohexane	ND		ug/kg	32	0.23	1
1,4-Dioxane	ND		ug/kg	160	23.	1
Freon-113	ND		ug/kg	32	0.43	1
Methyl cyclohexane	ND		ug/kg	6.3	0.24	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	109		70-130

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

Lab ID: L1516038-03 D  
 Client ID: MW-6-17-19\_071315  
 Sample Location: 140 CORTLAND AVE., SYRACUSE, NY 13202  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/14/15 13:06  
 Analyst: BN  
 Percent Solids: 89%

Date Collected: 07/13/15 10:10  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	56	6.2	5
1,1-Dichloroethane	ND		ug/kg	8.4	0.48	5
Chloroform	ND		ug/kg	8.4	2.1	5
Carbon tetrachloride	ND		ug/kg	5.6	1.2	5
1,2-Dichloropropane	ND		ug/kg	20	1.3	5
Dibromochloromethane	ND		ug/kg	5.6	0.86	5
1,1,2-Trichloroethane	ND		ug/kg	8.4	1.7	5
Tetrachloroethene	83		ug/kg	5.6	0.78	5
Chlorobenzene	ND		ug/kg	5.6	2.0	5
Trichlorofluoromethane	ND		ug/kg	28	2.2	5
1,2-Dichloroethane	ND		ug/kg	5.6	0.64	5
1,1,1-Trichloroethane	ND		ug/kg	5.6	0.62	5
Bromodichloromethane	ND		ug/kg	5.6	0.97	5
trans-1,3-Dichloropropene	ND		ug/kg	5.6	0.68	5
cis-1,3-Dichloropropene	ND		ug/kg	5.6	0.66	5
Bromoform	ND		ug/kg	22	1.3	5
1,1,2,2-Tetrachloroethane	ND		ug/kg	5.6	0.56	5
Benzene	2.8	J	ug/kg	5.6	0.66	5
Toluene	ND		ug/kg	8.4	1.1	5
Ethylbenzene	ND		ug/kg	5.6	0.71	5
Chloromethane	ND		ug/kg	28	1.6	5
Bromomethane	ND		ug/kg	11	1.9	5
Vinyl chloride	430		ug/kg	11	0.66	5
Chloroethane	ND		ug/kg	11	1.8	5
1,1-Dichloroethene	4.7	J	ug/kg	5.6	1.5	5
trans-1,2-Dichloroethene	18		ug/kg	8.4	1.2	5
Trichloroethene	48		ug/kg	5.6	0.70	5
1,2-Dichlorobenzene	ND		ug/kg	28	0.86	5
1,3-Dichlorobenzene	ND		ug/kg	28	0.76	5
1,4-Dichlorobenzene	ND		ug/kg	28	0.78	5

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

Lab ID: L1516038-03 D  
 Client ID: MW-6-17-19\_071315  
 Sample Location: 140 CORTLAND AVE., SYRACUSE, NY 13202

Date Collected: 07/13/15 10:10  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	11	0.47	5
p/m-Xylene	ND		ug/kg	11	1.1	5
o-Xylene	ND		ug/kg	11	0.96	5
cis-1,2-Dichloroethene	1500		ug/kg	5.6	0.80	5
Styrene	ND		ug/kg	11	2.2	5
Dichlorodifluoromethane	ND		ug/kg	56	1.1	5
Acetone	ND		ug/kg	56	5.8	5
Carbon disulfide	ND		ug/kg	56	6.2	5
2-Butanone	ND		ug/kg	56	1.5	5
4-Methyl-2-pentanone	ND		ug/kg	56	1.4	5
2-Hexanone	ND		ug/kg	56	3.7	5
Bromochloromethane	ND		ug/kg	28	1.5	5
1,2-Dibromoethane	ND		ug/kg	22	0.98	5
n-Butylbenzene	ND		ug/kg	5.6	0.64	5
sec-Butylbenzene	ND		ug/kg	5.6	0.68	5
tert-Butylbenzene	ND		ug/kg	28	0.76	5
1,2-Dibromo-3-chloropropane	ND		ug/kg	28	2.2	5
Isopropylbenzene	ND		ug/kg	5.6	0.58	5
p-Isopropyltoluene	ND		ug/kg	5.6	0.70	5
Naphthalene	ND		ug/kg	28	0.78	5
n-Propylbenzene	ND		ug/kg	5.6	0.61	5
1,2,3-Trichlorobenzene	ND		ug/kg	28	0.83	5
1,2,4-Trichlorobenzene	ND		ug/kg	28	1.0	5
1,3,5-Trimethylbenzene	ND		ug/kg	28	0.80	5
1,2,4-Trimethylbenzene	ND		ug/kg	28	0.79	5
Methyl Acetate	ND		ug/kg	110	1.5	5
Cyclohexane	ND		ug/kg	110	0.82	5
1,4-Dioxane	ND		ug/kg	560	81.	5
Freon-113	ND		ug/kg	110	1.5	5
Methyl cyclohexane	ND		ug/kg	22	0.87	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	110		70-130

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

Lab ID: L1516038-04  
 Client ID: MW-6-23-25\_071315  
 Sample Location: 140 CORTLAND AVE., SYRACUSE, NY 13202  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/14/15 11:18  
 Analyst: BN  
 Percent Solids: 78%

Date Collected: 07/13/15 11:00  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	13	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.11	1
Chloroform	ND		ug/kg	1.9	0.47	1
Carbon tetrachloride	ND		ug/kg	1.3	0.27	1
1,2-Dichloropropane	ND		ug/kg	4.5	0.29	1
Dibromochloromethane	ND		ug/kg	1.3	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.39	1
Tetrachloroethene	ND		ug/kg	1.3	0.18	1
Chlorobenzene	ND		ug/kg	1.3	0.45	1
Trichlorofluoromethane	ND		ug/kg	6.4	0.50	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.14	1
Bromodichloromethane	ND		ug/kg	1.3	0.22	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.16	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.15	1
Bromoform	ND		ug/kg	5.1	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.13	1
Benzene	ND		ug/kg	1.3	0.15	1
Toluene	ND		ug/kg	1.9	0.25	1
Ethylbenzene	ND		ug/kg	1.3	0.16	1
Chloromethane	ND		ug/kg	6.4	0.38	1
Bromomethane	ND		ug/kg	2.6	0.43	1
Vinyl chloride	0.70	J	ug/kg	2.6	0.15	1
Chloroethane	ND		ug/kg	2.6	0.40	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.27	1
Trichloroethene	ND		ug/kg	1.3	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	6.4	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	6.4	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	6.4	0.18	1

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

**Lab ID:** L1516038-04  
**Client ID:** MW-6-23-25\_071315  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, NY 13202

**Date Collected:** 07/13/15 11:00  
**Date Received:** 07/13/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	2.6	0.11	1
p/m-Xylene	ND		ug/kg	2.6	0.25	1
o-Xylene	ND		ug/kg	2.6	0.22	1
cis-1,2-Dichloroethene	1.7		ug/kg	1.3	0.18	1
Styrene	ND		ug/kg	2.6	0.52	1
Dichlorodifluoromethane	ND		ug/kg	13	0.24	1
Acetone	ND		ug/kg	13	1.3	1
Carbon disulfide	ND		ug/kg	13	1.4	1
2-Butanone	ND		ug/kg	13	0.35	1
4-Methyl-2-pentanone	ND		ug/kg	13	0.31	1
2-Hexanone	ND		ug/kg	13	0.85	1
Bromochloromethane	ND		ug/kg	6.4	0.35	1
1,2-Dibromoethane	ND		ug/kg	5.1	0.22	1
n-Butylbenzene	ND		ug/kg	1.3	0.15	1
sec-Butylbenzene	ND		ug/kg	1.3	0.16	1
tert-Butylbenzene	ND		ug/kg	6.4	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.4	0.51	1
Isopropylbenzene	ND		ug/kg	1.3	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.16	1
Naphthalene	ND		ug/kg	6.4	0.18	1
n-Propylbenzene	ND		ug/kg	1.3	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.4	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.4	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.4	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.4	0.18	1
Methyl Acetate	ND		ug/kg	26	0.35	1
Cyclohexane	ND		ug/kg	26	0.19	1
1,4-Dioxane	ND		ug/kg	130	18.	1
Freon-113	ND		ug/kg	26	0.35	1
Methyl cyclohexane	ND		ug/kg	5.1	0.20	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	112		70-130

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

Lab ID: L1516038-05  
 Client ID: MW-6-31-33\_071315  
 Sample Location: 140 CORTLAND AVE., SYRACUSE, NY 13202  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/14/15 10:02  
 Analyst: BN  
 Percent Solids: 80%

Date Collected: 07/13/15 11:25  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	12	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.11	1
Chloroform	ND		ug/kg	1.9	0.46	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.4	0.29	1
Dibromochloromethane	ND		ug/kg	1.2	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.38	1
Tetrachloroethene	ND		ug/kg	1.2	0.18	1
Chlorobenzene	ND		ug/kg	1.2	0.44	1
Trichlorofluoromethane	ND		ug/kg	6.3	0.49	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.14	1
Bromodichloromethane	ND		ug/kg	1.2	0.22	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
Bromoform	ND		ug/kg	5.0	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.13	1
Benzene	ND		ug/kg	1.2	0.15	1
Toluene	ND		ug/kg	1.9	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	6.3	0.37	1
Bromomethane	ND		ug/kg	2.5	0.42	1
Vinyl chloride	0.30	J	ug/kg	2.5	0.15	1
Chloroethane	ND		ug/kg	2.5	0.40	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.27	1
Trichloroethene	ND		ug/kg	1.2	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	6.3	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	6.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	6.3	0.17	1

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

**Lab ID:** L1516038-05  
**Client ID:** MW-6-31-33\_071315  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, NY 13202

**Date Collected:** 07/13/15 11:25  
**Date Received:** 07/13/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	2.5	0.11	1
p/m-Xylene	ND		ug/kg	2.5	0.25	1
o-Xylene	ND		ug/kg	2.5	0.22	1
cis-1,2-Dichloroethene	0.48	J	ug/kg	1.2	0.18	1
Styrene	ND		ug/kg	2.5	0.50	1
Dichlorodifluoromethane	ND		ug/kg	12	0.24	1
Acetone	ND		ug/kg	12	1.3	1
Carbon disulfide	ND		ug/kg	12	1.4	1
2-Butanone	ND		ug/kg	12	0.34	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.31	1
2-Hexanone	ND		ug/kg	12	0.84	1
Bromochloromethane	ND		ug/kg	6.3	0.35	1
1,2-Dibromoethane	ND		ug/kg	5.0	0.22	1
n-Butylbenzene	ND		ug/kg	1.2	0.14	1
sec-Butylbenzene	ND		ug/kg	1.2	0.15	1
tert-Butylbenzene	ND		ug/kg	6.3	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.3	0.50	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.16	1
Naphthalene	ND		ug/kg	6.3	0.17	1
n-Propylbenzene	ND		ug/kg	1.2	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.3	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.3	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.3	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.3	0.18	1
Methyl Acetate	ND		ug/kg	25	0.34	1
Cyclohexane	ND		ug/kg	25	0.18	1
1,4-Dioxane	ND		ug/kg	120	18.	1
Freon-113	ND		ug/kg	25	0.34	1
Methyl cyclohexane	ND		ug/kg	5.0	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	102		70-130

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

Lab ID: L1516038-06  
 Client ID: MW-6-35-37\_071315  
 Sample Location: 140 CORTLAND AVE., SYRACUSE, NY 13202  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/14/15 10:29  
 Analyst: BN  
 Percent Solids: 81%

Date Collected: 07/13/15 11:50  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	12	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.10	1
Chloroform	ND		ug/kg	1.8	0.46	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.3	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.37	1
Tetrachloroethene	ND		ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.43	1
Trichlorofluoromethane	ND		ug/kg	6.2	0.48	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.14	1
Bromodichloromethane	ND		ug/kg	1.2	0.21	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
Bromoform	ND		ug/kg	4.9	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	6.2	0.36	1
Bromomethane	ND		ug/kg	2.5	0.42	1
Vinyl chloride	ND		ug/kg	2.5	0.14	1
Chloroethane	ND		ug/kg	2.5	0.39	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.26	1
Trichloroethene	ND		ug/kg	1.2	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	6.2	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	6.2	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	6.2	0.17	1

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

**Lab ID:** L1516038-06  
**Client ID:** MW-6-35-37\_071315  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, NY 13202

**Date Collected:** 07/13/15 11:50  
**Date Received:** 07/13/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	2.5	0.10	1
p/m-Xylene	ND		ug/kg	2.5	0.24	1
o-Xylene	ND		ug/kg	2.5	0.21	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.18	1
Styrene	ND		ug/kg	2.5	0.50	1
Dichlorodifluoromethane	ND		ug/kg	12	0.24	1
Acetone	ND		ug/kg	12	1.3	1
Carbon disulfide	ND		ug/kg	12	1.4	1
2-Butanone	ND		ug/kg	12	0.34	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
2-Hexanone	ND		ug/kg	12	0.82	1
Bromochloromethane	ND		ug/kg	6.2	0.34	1
1,2-Dibromoethane	ND		ug/kg	4.9	0.22	1
n-Butylbenzene	ND		ug/kg	1.2	0.14	1
sec-Butylbenzene	ND		ug/kg	1.2	0.15	1
tert-Butylbenzene	ND		ug/kg	6.2	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.2	0.49	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.15	1
Naphthalene	ND		ug/kg	6.2	0.17	1
n-Propylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.2	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.2	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.2	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.2	0.17	1
Methyl Acetate	ND		ug/kg	25	0.33	1
Cyclohexane	ND		ug/kg	25	0.18	1
1,4-Dioxane	ND		ug/kg	120	18.	1
Freon-113	ND		ug/kg	25	0.34	1
Methyl cyclohexane	ND		ug/kg	4.9	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	119		70-130
Dibromofluoromethane	102		70-130

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

Lab ID: L1516038-07  
 Client ID: MW-6-49-51\_071315  
 Sample Location: 140 CORTLAND AVE., SYRACUSE, NY 13202  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/14/15 10:56  
 Analyst: BN  
 Percent Solids: 81%

Date Collected: 07/13/15 13:50  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	12	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.10	1
Chloroform	ND		ug/kg	1.8	0.46	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.3	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.38	1
Tetrachloroethene	ND		ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.43	1
Trichlorofluoromethane	ND		ug/kg	6.2	0.48	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.14	1
Bromodichloromethane	ND		ug/kg	1.2	0.21	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
Bromoform	ND		ug/kg	4.9	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	6.2	0.36	1
Bromomethane	ND		ug/kg	2.5	0.42	1
Vinyl chloride	ND		ug/kg	2.5	0.14	1
Chloroethane	ND		ug/kg	2.5	0.39	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.26	1
Trichloroethene	ND		ug/kg	1.2	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	6.2	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	6.2	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	6.2	0.17	1

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

**Lab ID:** L1516038-07  
**Client ID:** MW-6-49-51\_071315  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, NY 13202

**Date Collected:** 07/13/15 13:50  
**Date Received:** 07/13/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	2.5	0.10	1
p/m-Xylene	ND		ug/kg	2.5	0.24	1
o-Xylene	ND		ug/kg	2.5	0.21	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.18	1
Styrene	ND		ug/kg	2.5	0.50	1
Dichlorodifluoromethane	ND		ug/kg	12	0.24	1
Acetone	ND		ug/kg	12	1.3	1
Carbon disulfide	ND		ug/kg	12	1.4	1
2-Butanone	ND		ug/kg	12	0.34	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
2-Hexanone	ND		ug/kg	12	0.82	1
Bromochloromethane	ND		ug/kg	6.2	0.34	1
1,2-Dibromoethane	ND		ug/kg	4.9	0.22	1
n-Butylbenzene	ND		ug/kg	1.2	0.14	1
sec-Butylbenzene	ND		ug/kg	1.2	0.15	1
tert-Butylbenzene	ND		ug/kg	6.2	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.2	0.49	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.15	1
Naphthalene	ND		ug/kg	6.2	0.17	1
n-Propylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.2	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.2	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.2	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.2	0.17	1
Methyl Acetate	ND		ug/kg	25	0.33	1
Cyclohexane	ND		ug/kg	25	0.18	1
1,4-Dioxane	ND		ug/kg	120	18.	1
Freon-113	ND		ug/kg	25	0.34	1
Methyl cyclohexane	ND		ug/kg	4.9	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	161	Q	70-130
Dibromofluoromethane	104		70-130

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

Lab ID: L1516038-07 R  
 Client ID: MW-6-49-51\_071315  
 Sample Location: 140 CORTLAND AVE., SYRACUSE, NY 13202  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/14/15 13:41  
 Analyst: BN  
 Percent Solids: 81%

Date Collected: 07/13/15 13:50  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	12	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.10	1
Chloroform	ND		ug/kg	1.8	0.46	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.3	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.38	1
Tetrachloroethene	ND		ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.43	1
Trichlorofluoromethane	ND		ug/kg	6.2	0.48	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.14	1
Bromodichloromethane	ND		ug/kg	1.2	0.21	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
Bromoform	ND		ug/kg	4.9	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	6.2	0.36	1
Bromomethane	ND		ug/kg	2.5	0.42	1
Vinyl chloride	ND		ug/kg	2.5	0.14	1
Chloroethane	ND		ug/kg	2.5	0.39	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.26	1
Trichloroethene	ND		ug/kg	1.2	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	6.2	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	6.2	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	6.2	0.17	1

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

Lab ID: L1516038-07 R  
 Client ID: MW-6-49-51\_071315  
 Sample Location: 140 CORTLAND AVE., SYRACUSE, NY 13202

Date Collected: 07/13/15 13:50  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	2.5	0.10	1
p/m-Xylene	ND		ug/kg	2.5	0.24	1
o-Xylene	ND		ug/kg	2.5	0.21	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.18	1
Styrene	ND		ug/kg	2.5	0.50	1
Dichlorodifluoromethane	ND		ug/kg	12	0.24	1
Acetone	ND		ug/kg	12	1.3	1
Carbon disulfide	ND		ug/kg	12	1.4	1
2-Butanone	ND		ug/kg	12	0.34	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
2-Hexanone	ND		ug/kg	12	0.82	1
Bromochloromethane	ND		ug/kg	6.2	0.34	1
1,2-Dibromoethane	ND		ug/kg	4.9	0.22	1
n-Butylbenzene	ND		ug/kg	1.2	0.14	1
sec-Butylbenzene	ND		ug/kg	1.2	0.15	1
tert-Butylbenzene	ND		ug/kg	6.2	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.2	0.49	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.15	1
Naphthalene	ND		ug/kg	6.2	0.17	1
n-Propylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.2	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.2	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.2	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.2	0.17	1
Methyl Acetate	ND		ug/kg	25	0.33	1
Cyclohexane	ND		ug/kg	25	0.18	1
1,4-Dioxane	ND		ug/kg	120	18.	1
Freon-113	ND		ug/kg	25	0.34	1
Methyl cyclohexane	ND		ug/kg	4.9	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	<b>144</b>	Q	70-130
Dibromofluoromethane	105		70-130

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

Lab ID: L1516038-08  
 Client ID: MW-6-53-55\_071315  
 Sample Location: 140 CORTLAND AVE., SYRACUSE, NY 13202  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/14/15 11:24  
 Analyst: BN  
 Percent Solids: 82%

Date Collected: 07/13/15 14:10  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	12	1.3	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.10	1
Chloroform	ND		ug/kg	1.8	0.45	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.3	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.37	1
Tetrachloroethene	ND		ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.42	1
Trichlorofluoromethane	ND		ug/kg	6.1	0.47	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.14	1
Bromodichloromethane	ND		ug/kg	1.2	0.21	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
Bromoform	ND		ug/kg	4.9	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	6.1	0.36	1
Bromomethane	ND		ug/kg	2.4	0.41	1
Vinyl chloride	0.31	J	ug/kg	2.4	0.14	1
Chloroethane	ND		ug/kg	2.4	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.26	1
Trichloroethene	ND		ug/kg	1.2	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	6.1	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	6.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	6.1	0.17	1

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

**Lab ID:** L1516038-08  
**Client ID:** MW-6-53-55\_071315  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, NY 13202

**Date Collected:** 07/13/15 14:10  
**Date Received:** 07/13/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	2.4	0.10	1
p/m-Xylene	ND		ug/kg	2.4	0.24	1
o-Xylene	ND		ug/kg	2.4	0.21	1
cis-1,2-Dichloroethene	0.30	J	ug/kg	1.2	0.17	1
Styrene	ND		ug/kg	2.4	0.49	1
Dichlorodifluoromethane	ND		ug/kg	12	0.23	1
Acetone	ND		ug/kg	12	1.3	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.33	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
2-Hexanone	ND		ug/kg	12	0.81	1
Bromochloromethane	ND		ug/kg	6.1	0.34	1
1,2-Dibromoethane	ND		ug/kg	4.9	0.21	1
n-Butylbenzene	ND		ug/kg	1.2	0.14	1
sec-Butylbenzene	ND		ug/kg	1.2	0.15	1
tert-Butylbenzene	ND		ug/kg	6.1	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.1	0.48	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.15	1
Naphthalene	ND		ug/kg	6.1	0.17	1
n-Propylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.1	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.1	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.1	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.1	0.17	1
Methyl Acetate	ND		ug/kg	24	0.33	1
Cyclohexane	ND		ug/kg	24	0.18	1
1,4-Dioxane	ND		ug/kg	120	18.	1
Freon-113	ND		ug/kg	24	0.33	1
Methyl cyclohexane	ND		ug/kg	4.9	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	149	Q	70-130
Dibromofluoromethane	106		70-130

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

Lab ID: L1516038-08 R  
 Client ID: MW-6-53-55\_071315  
 Sample Location: 140 CORTLAND AVE., SYRACUSE, NY 13202  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/14/15 14:08  
 Analyst: BN  
 Percent Solids: 82%

Date Collected: 07/13/15 14:10  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	12	1.3	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.10	1
Chloroform	ND		ug/kg	1.8	0.45	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.3	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.37	1
Tetrachloroethene	ND		ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.42	1
Trichlorofluoromethane	ND		ug/kg	6.1	0.47	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.14	1
Bromodichloromethane	ND		ug/kg	1.2	0.21	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
Bromoform	ND		ug/kg	4.9	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	6.1	0.36	1
Bromomethane	ND		ug/kg	2.4	0.41	1
Vinyl chloride	0.30	J	ug/kg	2.4	0.14	1
Chloroethane	ND		ug/kg	2.4	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.26	1
Trichloroethene	ND		ug/kg	1.2	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	6.1	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	6.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	6.1	0.17	1

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

Lab ID: L1516038-08 R  
 Client ID: MW-6-53-55\_071315  
 Sample Location: 140 CORTLAND AVE., SYRACUSE, NY 13202

Date Collected: 07/13/15 14:10  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	2.4	0.10	1
p/m-Xylene	ND		ug/kg	2.4	0.24	1
o-Xylene	ND		ug/kg	2.4	0.21	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.17	1
Styrene	ND		ug/kg	2.4	0.49	1
Dichlorodifluoromethane	ND		ug/kg	12	0.23	1
Acetone	ND		ug/kg	12	1.3	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.33	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
2-Hexanone	ND		ug/kg	12	0.81	1
Bromochloromethane	ND		ug/kg	6.1	0.34	1
1,2-Dibromoethane	ND		ug/kg	4.9	0.21	1
n-Butylbenzene	ND		ug/kg	1.2	0.14	1
sec-Butylbenzene	ND		ug/kg	1.2	0.15	1
tert-Butylbenzene	ND		ug/kg	6.1	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.1	0.48	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.15	1
Naphthalene	ND		ug/kg	6.1	0.17	1
n-Propylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.1	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.1	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.1	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.1	0.17	1
Methyl Acetate	ND		ug/kg	24	0.33	1
Cyclohexane	ND		ug/kg	24	0.18	1
1,4-Dioxane	ND		ug/kg	120	18.	1
Freon-113	ND		ug/kg	24	0.33	1
Methyl cyclohexane	ND		ug/kg	4.9	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	<b>149</b>	Q	70-130
Dibromofluoromethane	102		70-130

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

**Lab ID:** L1516038-09  
**Client ID:** TRIP BLANK-003-071315  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, NY 13202  
**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 07/14/15 10:53  
**Analyst:** PD

**Date Collected:** 07/13/15 00:00  
**Date Received:** 07/13/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

**Lab ID:** L1516038-09  
**Client ID:** TRIP BLANK-003-071315  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, NY 13202

**Date Collected:** 07/13/15 00:00  
**Date Received:** 07/13/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	125		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	108		70-130

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/14/15 10:26  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG802530-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
2-Chloroethylvinyl ether	ND		ug/l	10	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/14/15 10:26  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG802530-3					
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylene (Total)	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene (total)	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Isopropyl Ether	ND		ug/l	2.0	0.65
tert-Butyl Alcohol	ND		ug/l	10	0.90
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Acrolein	ND		ug/l	5.0	0.63
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 07/14/15 10:26  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG802530-3					
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Ethyl Acetate	ND		ug/l	10	0.70
Cyclohexane	ND		ug/l	10	0.27
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.5	0.70
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	0.28
1,4-Dioxane	ND		ug/l	250	41.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.70
1,4-Diethylbenzene	ND		ug/l	2.0	0.70
4-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Tetrahydrofuran	ND		ug/l	5.0	1.5
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Project Name: COYNE TECTILE SERVICES-MW INST

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**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 07/14/15 10:26  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG802530-3					
Iodomethane	ND		ug/l	5.0	5.0
Methyl cyclohexane	ND		ug/l	10	0.40

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	125		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	107		70-130

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/14/15 09:29  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG802552-3					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
2-Chloroethylvinyl ether	ND		ug/kg	20	0.62
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.12
1,1-Dichloropropene	ND		ug/kg	5.0	0.14
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
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**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/14/15 09:29  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG802552-3					
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.20
o-Xylene	ND		ug/kg	2.0	0.17
Xylene (Total)	ND		ug/kg	2.0	0.17
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
1,2-Dichloroethene (total)	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
Vinyl acetate	ND		ug/kg	10	0.13
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.16
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
2,2-Dichloropropane	ND		ug/kg	5.0	0.23
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,3-Dichloropropane	ND		ug/kg	5.0	0.14
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
tert-Butylbenzene	ND		ug/kg	5.0	0.14

**Project Name:** COYNE TECTILE SERVICES-MW INST  
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**Method Blank Analysis**  
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Analytical Method: 1,8260C  
Analytical Date: 07/14/15 09:29  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG802552-3					
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.13
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.23
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
Isopropyl Ether	ND		ug/kg	4.0	0.14
tert-Butyl Alcohol	ND		ug/kg	60	2.9
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
Methyl Acetate	ND		ug/kg	20	0.27
Ethyl Acetate	ND		ug/kg	20	0.92
Acrolein	ND		ug/kg	25	8.1
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	0.27
1,4-Diethylbenzene	ND		ug/kg	4.0	0.16
4-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Tetrahydrofuran	ND		ug/kg	20	1.0
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39
Methyl cyclohexane	ND		ug/kg	4.0	0.15
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.12

Project Name: COYNE TECTILE SERVICES-MW INST

Lab Number: L1516038

Project Number: 21.0056730.40

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**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 07/14/15 09:29  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG802552-3					
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.10

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	84		70-130
Dibromofluoromethane	99		70-130

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/14/15 09:34  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-08 Batch: WG802562-3					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
2-Chloroethylvinyl ether	ND		ug/kg	20	0.62
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.12
1,1-Dichloropropene	ND		ug/kg	5.0	0.14
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	0.87	J	ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21

**Project Name:** COYNE TECTILE SERVICES-MW INST  
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**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/14/15 09:34  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-08 Batch: WG802562-3					
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.20
o-Xylene	ND		ug/kg	2.0	0.17
Xylene (Total)	ND		ug/kg	2.0	0.17
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
1,2-Dichloroethene (total)	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
Vinyl acetate	ND		ug/kg	10	0.13
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.16
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
2,2-Dichloropropane	ND		ug/kg	5.0	0.23
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,3-Dichloropropane	ND		ug/kg	5.0	0.14
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
tert-Butylbenzene	ND		ug/kg	5.0	0.14

**Project Name:** COYNE TECTILE SERVICES-MW INST  
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**Lab Number:** L1516038  
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**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/14/15 09:34  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-08 Batch: WG802562-3					
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.13
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.23
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
Isopropyl Ether	ND		ug/kg	4.0	0.14
tert-Butyl Alcohol	ND		ug/kg	60	2.9
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
Methyl Acetate	ND		ug/kg	20	0.27
Ethyl Acetate	ND		ug/kg	20	0.92
Acrolein	ND		ug/kg	25	8.1
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	0.27
1,4-Diethylbenzene	ND		ug/kg	4.0	0.16
4-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Tetrahydrofuran	ND		ug/kg	20	1.0
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39
Methyl cyclohexane	ND		ug/kg	4.0	0.15
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.12

Project Name: COYNE TECTILE SERVICES-MW INST

Lab Number: L1516038

Project Number: 21.0056730.40

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**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 07/14/15 09:34  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-08 Batch: WG802562-3					
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.10

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	103		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TECTILE SERVICES-MW INST

**Lab Number:** L1516038

**Project Number:** 21.0056730.40

**Report Date:** 07/14/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG802530-1 WG802530-2								
Methylene chloride	93		94		70-130	1		20
1,1-Dichloroethane	116		116		70-130	0		20
Chloroform	114		114		70-130	0		20
2-Chloroethylvinyl ether	59	Q	61	Q	70-130	3		20
Carbon tetrachloride	98		96		63-132	2		20
1,2-Dichloropropane	107		108		70-130	1		20
Dibromochloromethane	107		106		63-130	1		20
1,1,2-Trichloroethane	122		120		70-130	2		20
Tetrachloroethene	104		102		70-130	2		20
Chlorobenzene	107		106		75-130	1		20
Trichlorofluoromethane	153	Q	147		62-150	4		20
1,2-Dichloroethane	104		104		70-130	0		20
1,1,1-Trichloroethane	104		102		67-130	2		20
Bromodichloromethane	98		99		67-130	1		20
trans-1,3-Dichloropropene	109		109		70-130	0		20
cis-1,3-Dichloropropene	88		88		70-130	0		20
1,1-Dichloropropene	100		100		70-130	0		20
Bromoform	101		103		54-136	2		20
1,1,2,2-Tetrachloroethane	111		113		67-130	2		20
Benzene	107		106		70-130	1		20
Toluene	121		119		70-130	2		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TECTILE SERVICES-MW INST

**Lab Number:** L1516038

**Project Number:** 21.0056730.40

**Report Date:** 07/14/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG802530-1 WG802530-2								
Ethylbenzene	113		111		70-130	2		20
Chloromethane	55	Q	58	Q	64-130	5		20
Bromomethane	82		80		39-139	2		20
Vinyl chloride	105		103		55-140	2		20
Chloroethane	104		102		55-138	2		20
1,1-Dichloroethene	110		108		61-145	2		20
trans-1,2-Dichloroethene	105		103		70-130	2		20
Trichloroethene	103		102		70-130	1		20
1,2-Dichlorobenzene	101		102		70-130	1		20
1,3-Dichlorobenzene	108		109		70-130	1		20
1,4-Dichlorobenzene	110		110		70-130	0		20
Methyl tert butyl ether	95		97		63-130	2		20
p/m-Xylene	111		109		70-130	2		20
o-Xylene	104		103		70-130	1		20
cis-1,2-Dichloroethene	103		103		70-130	0		20
Dibromomethane	96		97		70-130	1		20
1,2,3-Trichloropropane	126		130		64-130	3		20
Acrylonitrile	113		116		70-130	3		20
Diisopropyl Ether	119		120		70-130	1		20
Tert-Butyl Alcohol	90		93		70-130	3		20
Styrene	108		107		70-130	1		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TECTILE SERVICES-MW INST

**Lab Number:** L1516038

**Project Number:** 21.0056730.40

**Report Date:** 07/14/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG802530-1 WG802530-2								
Dichlorodifluoromethane	85		82		36-147	4		20
Acetone	102		112		58-148	9		20
Carbon disulfide	100		100		51-130	0		20
2-Butanone	123		129		63-138	5		20
Vinyl acetate	83		84		70-130	1		20
4-Methyl-2-pentanone	82		86		59-130	5		20
2-Hexanone	98		102		57-130	4		20
Acrolein	89		90		40-160	1		20
Bromochloromethane	103		101		70-130	2		20
2,2-Dichloropropane	92		89		63-133	3		20
1,2-Dibromoethane	101		102		70-130	1		20
1,3-Dichloropropane	117		117		70-130	0		20
1,1,1,2-Tetrachloroethane	113		112		64-130	1		20
Bromobenzene	94		96		70-130	2		20
n-Butylbenzene	<b>137</b>	Q	<b>138</b>	Q	53-136	1		20
sec-Butylbenzene	114		114		70-130	0		20
tert-Butylbenzene	100		100		70-130	0		20
o-Chlorotoluene	119		122		70-130	2		20
p-Chlorotoluene	111		111		70-130	0		20
1,2-Dibromo-3-chloropropane	115		115		41-144	0		20
Hexachlorobutadiene	119		118		63-130	1		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TECTILE SERVICES-MW INST

**Lab Number:** L1516038

**Project Number:** 21.0056730.40

**Report Date:** 07/14/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG802530-1 WG802530-2								
Isopropylbenzene	102		102		70-130	0		20
p-Isopropyltoluene	115		116		70-130	1		20
Naphthalene	92		95		70-130	3		20
n-Propylbenzene	112		111		69-130	1		20
1,2,3-Trichlorobenzene	112		114		70-130	2		20
1,2,4-Trichlorobenzene	119		121		70-130	2		20
1,3,5-Trimethylbenzene	121		120		64-130	1		20
1,2,4-Trimethylbenzene	113		112		70-130	1		20
Methyl Acetate	118		121		70-130	3		20
Ethyl Acetate	112		117		70-130	4		20
Cyclohexane	112		112		70-130	0		20
Ethyl-Tert-Butyl-Ether	98		100		70-130	2		20
Tertiary-Amyl Methyl Ether	83		85		66-130	2		20
1,4-Dioxane	115		113		56-162	2		20
Freon-113	114		111		70-130	3		20
p-Diethylbenzene	117		119		70-130	2		20
p-Ethyltoluene	111		111		70-130	0		20
1,2,4,5-Tetramethylbenzene	117		121		70-130	3		20
Ethyl ether	132		130		59-134	2		20
trans-1,4-Dichloro-2-butene	91		91		70-130	0		20
Iodomethane	16	Q	17	Q	70-130	6		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TECTILE SERVICES-MW INST

**Lab Number:** L1516038

**Project Number:** 21.0056730.40

**Report Date:** 07/14/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG802530-1 WG802530-2								
Methyl cyclohexane	99		98		70-130	1		20

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
1,2-Dichloroethane-d4	107		107		70-130
Toluene-d8	124		123		70-130
4-Bromofluorobenzene	95		96		70-130
Dibromofluoromethane	109		110		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TECTILE SERVICES-MW INST

**Lab Number:** L1516038

**Project Number:** 21.0056730.40

**Report Date:** 07/14/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG802552-1 WG802552-2								
Methylene chloride	100		97		70-130	3		30
1,1-Dichloroethane	103		99		70-130	4		30
Chloroform	103		98		70-130	5		30
Carbon tetrachloride	109		104		70-130	5		30
1,2-Dichloropropane	92		91		70-130	1		30
Dibromochloromethane	99		98		70-130	1		30
2-Chloroethylvinyl ether	76		80		70-130	5		30
1,1,2-Trichloroethane	100		98		70-130	2		30
Tetrachloroethene	112		105		70-130	6		30
Chlorobenzene	102		98		70-130	4		30
Trichlorofluoromethane	135		124		70-139	8		30
1,2-Dichloroethane	100		100		70-130	0		30
1,1,1-Trichloroethane	103		99		70-130	4		30
Bromodichloromethane	92		92		70-130	0		30
trans-1,3-Dichloropropene	91		89		70-130	2		30
cis-1,3-Dichloropropene	88		88		70-130	0		30
1,1-Dichloropropene	94		91		70-130	3		30
Bromoform	95		94		70-130	1		30
1,1,2,2-Tetrachloroethane	94		92		70-130	2		30
Benzene	98		95		70-130	3		30
Toluene	102		97		70-130	5		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TECTILE SERVICES-MW INST

**Lab Number:** L1516038

**Project Number:** 21.0056730.40

**Report Date:** 07/14/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG802552-1 WG802552-2								
Ethylbenzene	101		96		70-130	5		30
Chloromethane	102		95		52-130	7		30
Bromomethane	119		115		57-147	3		30
Vinyl chloride	88		86		67-130	2		30
Chloroethane	106		102		50-151	4		30
1,1-Dichloroethene	102		99		65-135	3		30
trans-1,2-Dichloroethene	101		95		70-130	6		30
Trichloroethene	103		98		70-130	5		30
1,2-Dichlorobenzene	102		100		70-130	2		30
1,3-Dichlorobenzene	106		104		70-130	2		30
1,4-Dichlorobenzene	105		101		70-130	4		30
Methyl tert butyl ether	87		87		66-130	0		30
p/m-Xylene	106		101		70-130	5		30
o-Xylene	101		98		70-130	3		30
cis-1,2-Dichloroethene	98		95		70-130	3		30
Dibromomethane	94		94		70-130	0		30
Styrene	104		100		70-130	4		30
Dichlorodifluoromethane	115		106		30-146	8		30
Acetone	86		90		54-140	5		30
Carbon disulfide	87		81		59-130	7		30
2-Butanone	83		84		70-130	1		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TECTILE SERVICES-MW INST

**Lab Number:** L1516038

**Project Number:** 21.0056730.40

**Report Date:** 07/14/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG802552-1 WG802552-2								
Vinyl acetate	73		75		70-130	3		30
4-Methyl-2-pentanone	69	Q	73		70-130	6		30
1,2,3-Trichloropropane	92		93		68-130	1		30
2-Hexanone	63	Q	66	Q	70-130	5		30
Bromochloromethane	106		104		70-130	2		30
2,2-Dichloropropane	100		95		70-130	5		30
1,2-Dibromoethane	95		97		70-130	2		30
1,3-Dichloropropane	94		94		69-130	0		30
1,1,1,2-Tetrachloroethane	103		100		70-130	3		30
Bromobenzene	101		97		70-130	4		30
n-Butylbenzene	108		102		70-130	6		30
sec-Butylbenzene	103		97		70-130	6		30
tert-Butylbenzene	96		91		70-130	5		30
o-Chlorotoluene	102		97		70-130	5		30
p-Chlorotoluene	98		93		70-130	5		30
1,2-Dibromo-3-chloropropane	75		77		68-130	3		30
Hexachlorobutadiene	105		99		67-130	6		30
Isopropylbenzene	96		90		70-130	6		30
p-Isopropyltoluene	103		98		70-130	5		30
Naphthalene	82		85		70-130	4		30
Acrylonitrile	91		94		70-130	3		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TECTILE SERVICES-MW INST

**Lab Number:** L1516038

**Project Number:** 21.0056730.40

**Report Date:** 07/14/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG802552-1 WG802552-2								
Diisopropyl Ether	87		86		66-130	1		30
Tert-Butyl Alcohol	75		75		70-130	0		30
n-Propylbenzene	100		94		70-130	6		30
1,2,3-Trichlorobenzene	96		95		70-130	1		30
1,2,4-Trichlorobenzene	96		96		70-130	0		30
1,3,5-Trimethylbenzene	100		95		70-130	5		30
1,2,4-Trimethylbenzene	99		95		70-130	4		30
Methyl Acetate	91		92		51-146	1		30
Ethyl Acetate	82		84		70-130	2		30
Acrolein	61	Q	59	Q	70-130	3		30
Cyclohexane	99		95		59-142	4		30
1,4-Dioxane	103		92		65-136	11		30
Freon-113	116		109		50-139	6		30
p-Diethylbenzene	102		97		70-130	5		30
p-Ethyltoluene	104		98		70-130	6		30
1,2,4,5-Tetramethylbenzene	92		88		70-130	4		30
Tetrahydrofuran	89		86		66-130	3		30
Ethyl ether	98		96		67-130	2		30
trans-1,4-Dichloro-2-butene	91		89		70-130	2		30
Methyl cyclohexane	99		95		70-130	4		30
Ethyl-Tert-Butyl-Ether	86		86		70-130	0		30

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG802552-1 WG802552-2								
Tertiary-Amyl Methyl Ether	80		81		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		107		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	87		85		70-130
Dibromofluoromethane	105		106		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TECTILE SERVICES-MW INST

**Lab Number:** L1516038

**Project Number:** 21.0056730.40

**Report Date:** 07/14/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-08 Batch: WG802562-1 WG802562-2								
Methylene chloride	104		101		70-130	3		30
1,1-Dichloroethane	112		107		70-130	5		30
Chloroform	113		109		70-130	4		30
Carbon tetrachloride	121		113		70-130	7		30
1,2-Dichloropropane	112		108		70-130	4		30
Dibromochloromethane	98		95		70-130	3		30
2-Chloroethylvinyl ether	117		113		70-130	3		30
1,1,2-Trichloroethane	97		95		70-130	2		30
Tetrachloroethene	111		103		70-130	7		30
Chlorobenzene	104		99		70-130	5		30
Trichlorofluoromethane	126		116		70-139	8		30
1,2-Dichloroethane	103		102		70-130	1		30
1,1,1-Trichloroethane	121		112		70-130	8		30
Bromodichloromethane	108		105		70-130	3		30
trans-1,3-Dichloropropene	95		92		70-130	3		30
cis-1,3-Dichloropropene	109		106		70-130	3		30
1,1-Dichloropropene	122		113		70-130	8		30
Bromoform	92		93		70-130	1		30
1,1,2,2-Tetrachloroethane	88		89		70-130	1		30
Benzene	113		106		70-130	6		30
Toluene	101		96		70-130	5		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TECTILE SERVICES-MW INST

**Lab Number:** L1516038

**Project Number:** 21.0056730.40

**Report Date:** 07/14/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-08 Batch: WG802562-1 WG802562-2								
Ethylbenzene	104		98		70-130	6		30
Chloromethane	94		89		52-130	5		30
Bromomethane	136		128		57-147	6		30
Vinyl chloride	107		98		67-130	9		30
Chloroethane	110		100		50-151	10		30
1,1-Dichloroethene	117		106		65-135	10		30
trans-1,2-Dichloroethene	115		108		70-130	6		30
Trichloroethene	118		112		70-130	5		30
1,2-Dichlorobenzene	96		94		70-130	2		30
1,3-Dichlorobenzene	98		95		70-130	3		30
1,4-Dichlorobenzene	97		94		70-130	3		30
Methyl tert butyl ether	104		103		66-130	1		30
p/m-Xylene	105		99		70-130	6		30
o-Xylene	103		98		70-130	5		30
cis-1,2-Dichloroethene	116		110		70-130	5		30
Dibromomethane	109		106		70-130	3		30
Styrene	104		99		70-130	5		30
Dichlorodifluoromethane	116		106		30-146	9		30
Acetone	94		94		54-140	0		30
Carbon disulfide	107		97		59-130	10		30
2-Butanone	101		105		70-130	4		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TECTILE SERVICES-MW INST

**Lab Number:** L1516038

**Project Number:** 21.0056730.40

**Report Date:** 07/14/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-08 Batch: WG802562-1 WG802562-2								
Vinyl acetate	100		99		70-130	1		30
4-Methyl-2-pentanone	103		105		70-130	2		30
1,2,3-Trichloropropane	89		90		68-130	1		30
2-Hexanone	77		79		70-130	3		30
Bromochloromethane	117		114		70-130	3		30
2,2-Dichloropropane	112		104		70-130	7		30
1,2-Dibromoethane	98		96		70-130	2		30
1,3-Dichloropropane	96		95		69-130	1		30
1,1,1,2-Tetrachloroethane	102		98		70-130	4		30
Bromobenzene	96		95		70-130	1		30
n-Butylbenzene	102		96		70-130	6		30
sec-Butylbenzene	101		96		70-130	5		30
tert-Butylbenzene	100		95		70-130	5		30
o-Chlorotoluene	95		92		70-130	3		30
p-Chlorotoluene	98		93		70-130	5		30
1,2-Dibromo-3-chloropropane	90		91		68-130	1		30
Hexachlorobutadiene	104		97		67-130	7		30
Isopropylbenzene	107		100		70-130	7		30
p-Isopropyltoluene	101		96		70-130	5		30
Naphthalene	89		89		70-130	0		30
Acrylonitrile	104		106		70-130	2		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TECTILE SERVICES-MW INST

**Lab Number:** L1516038

**Project Number:** 21.0056730.40

**Report Date:** 07/14/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-08 Batch: WG802562-1 WG802562-2								
Diisopropyl Ether	102		99		66-130	3		30
Tert-Butyl Alcohol	100		103		70-130	3		30
n-Propylbenzene	99		94		70-130	5		30
1,2,3-Trichlorobenzene	95		93		70-130	2		30
1,2,4-Trichlorobenzene	97		95		70-130	2		30
1,3,5-Trimethylbenzene	99		94		70-130	5		30
1,2,4-Trimethylbenzene	96		92		70-130	4		30
Methyl Acetate	91		96		51-146	5		30
Ethyl Acetate	86		85		70-130	1		30
Acrolein	88		85		70-130	3		30
Cyclohexane	125		116		59-142	7		30
1,4-Dioxane	101		103		65-136	2		30
Freon-113	118		108		50-139	9		30
p-Diethylbenzene	121		114		70-130	6		30
p-Ethyltoluene	120		113		70-130	6		30
1,2,4,5-Tetramethylbenzene	117		111		70-130	5		30
Tetrahydrofuran	95		86		66-130	10		30
Ethyl ether	103		99		67-130	4		30
trans-1,4-Dichloro-2-butene	81		81		70-130	0		30
Methyl cyclohexane	129		120		70-130	7		30
Ethyl-Tert-Butyl-Ether	105		103		70-130	2		30

### Lab Control Sample Analysis

#### Batch Quality Control

**Project Name:** COYNE TECTILE SERVICES-MW INST

**Lab Number:** L1516038

**Project Number:** 21.0056730.40

**Report Date:** 07/14/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-08 Batch: WG802562-1 WG802562-2								
Tertiary-Amyl Methyl Ether	105		104		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		94		70-130
Toluene-d8	92		91		70-130
4-Bromofluorobenzene	94		95		70-130
Dibromofluoromethane	102		102		70-130

# SEMIVOLATILES

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

Lab ID: L1516038-01  
 Client ID: MW-6-5-7\_071315  
 Sample Location: 140 CORTLAND AVE., SYRACUSE, NY 13202  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/14/15 11:42  
 Analyst: RC  
 Percent Solids: 73%

Date Collected: 07/13/15 09:35  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 00:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	58	J	ug/kg	180	47.	1
1,2,4-Trichlorobenzene	ND		ug/kg	230	74.	1
Hexachlorobenzene	ND		ug/kg	140	42.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	64.	1
2-Chloronaphthalene	ND		ug/kg	230	74.	1
1,2-Dichlorobenzene	ND		ug/kg	230	74.	1
1,3-Dichlorobenzene	ND		ug/kg	230	71.	1
1,4-Dichlorobenzene	ND		ug/kg	230	69.	1
3,3'-Dichlorobenzidine	ND		ug/kg	230	60.	1
2,4-Dinitrotoluene	ND		ug/kg	230	49.	1
2,6-Dinitrotoluene	ND		ug/kg	230	58.	1
Fluoranthene	510		ug/kg	140	42.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	230	69.	1
4-Bromophenyl phenyl ether	ND		ug/kg	230	52.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	270	80.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	68.	1
Hexachlorobutadiene	ND		ug/kg	230	64.	1
Hexachlorocyclopentadiene	ND		ug/kg	650	140	1
Hexachloroethane	ND		ug/kg	180	41.	1
Isophorone	ND		ug/kg	200	60.	1
Naphthalene	220	J	ug/kg	230	75.	1
Nitrobenzene	ND		ug/kg	200	54.	1
NDPA/DPA	ND		ug/kg	180	48.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	230	67.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	230	59.	1
Butyl benzyl phthalate	ND		ug/kg	230	44.	1
Di-n-butylphthalate	ND		ug/kg	230	44.	1
Di-n-octylphthalate	ND		ug/kg	230	56.	1
Diethyl phthalate	ND		ug/kg	230	48.	1
Dimethyl phthalate	ND		ug/kg	230	58.	1

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

**Lab ID:** L1516038-01  
**Client ID:** MW-6-5-7\_071315  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, NY 13202

**Date Collected:** 07/13/15 09:35  
**Date Received:** 07/13/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Benzo(a)anthracene	260		ug/kg	140	44.	1
Benzo(a)pyrene	320		ug/kg	180	55.	1
Benzo(b)fluoranthene	250		ug/kg	140	46.	1
Benzo(k)fluoranthene	240		ug/kg	140	43.	1
Chrysene	250		ug/kg	140	44.	1
Acenaphthylene	51	J	ug/kg	180	42.	1
Anthracene	130	J	ug/kg	140	38.	1
Benzo(ghi)perylene	200		ug/kg	180	47.	1
Fluorene	83	J	ug/kg	230	65.	1
Phenanthrene	420		ug/kg	140	44.	1
Dibenzo(a,h)anthracene	52	J	ug/kg	140	44.	1
Indeno(1,2,3-cd)pyrene	170	J	ug/kg	180	50.	1
Pyrene	440		ug/kg	140	44.	1
Biphenyl	ND		ug/kg	520	75.	1
4-Chloroaniline	ND		ug/kg	230	60.	1
2-Nitroaniline	ND		ug/kg	230	64.	1
3-Nitroaniline	ND		ug/kg	230	62.	1
4-Nitroaniline	ND		ug/kg	230	61.	1
Dibenzofuran	ND		ug/kg	230	76.	1
2-Methylnaphthalene	ND		ug/kg	270	72.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	230	70.	1
Acetophenone	ND		ug/kg	230	70.	1
Benzyl Alcohol	ND		ug/kg	230	70.	1
Carbazole	68	J	ug/kg	230	49.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	103		10-136
4-Terphenyl-d14	81		18-120

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 07/14/15 09:08  
**Analyst:** RC

**Extraction Method:** EPA 3546  
**Extraction Date:** 07/14/15 00:21

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG802310-1					
Acenaphthene	ND		ug/kg	130	33.
1,2,4-Trichlorobenzene	ND		ug/kg	160	53.
Hexachlorobenzene	ND		ug/kg	97	30.
Bis(2-chloroethyl)ether	ND		ug/kg	140	45.
2-Chloronaphthalene	ND		ug/kg	160	53.
1,2-Dichlorobenzene	ND		ug/kg	160	53.
1,3-Dichlorobenzene	ND		ug/kg	160	51.
1,4-Dichlorobenzene	ND		ug/kg	160	49.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	35.
2,6-Dinitrotoluene	ND		ug/kg	160	42.
Fluoranthene	ND		ug/kg	97	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	49.
4-Bromophenyl phenyl ether	ND		ug/kg	160	37.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	57.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	49.
Hexachlorobutadiene	ND		ug/kg	160	46.
Hexachlorocyclopentadiene	ND		ug/kg	460	100
Hexachloroethane	ND		ug/kg	130	29.
Isophorone	ND		ug/kg	140	43.
Naphthalene	ND		ug/kg	160	54.
Nitrobenzene	ND		ug/kg	140	38.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	34.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	48.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	42.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	40.
Diethyl phthalate	ND		ug/kg	160	34.

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 07/14/15 09:08  
**Analyst:** RC

**Extraction Method:** EPA 3546  
**Extraction Date:** 07/14/15 00:21

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG802310-1					
Dimethyl phthalate	ND		ug/kg	160	41.
Benzo(a)anthracene	ND		ug/kg	97	32.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	33.
Benzo(k)fluoranthene	ND		ug/kg	97	31.
Chrysene	ND		ug/kg	97	32.
Acenaphthylene	ND		ug/kg	130	30.
Anthracene	ND		ug/kg	97	27.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	46.
Phenanthrene	ND		ug/kg	97	32.
Dibenzo(a,h)anthracene	ND		ug/kg	97	31.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	36.
Pyrene	ND		ug/kg	97	32.
Biphenyl	ND		ug/kg	370	53.
4-Chloroaniline	ND		ug/kg	160	43.
2-Nitroaniline	ND		ug/kg	160	46.
3-Nitroaniline	ND		ug/kg	160	45.
4-Nitroaniline	ND		ug/kg	160	44.
Dibenzofuran	ND		ug/kg	160	54.
2-Methylnaphthalene	ND		ug/kg	190	52.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	50.
Acetophenone	ND		ug/kg	160	50.
2,4,6-Trichlorophenol	ND		ug/kg	97	30.
P-Chloro-M-Cresol	ND		ug/kg	160	47.
2-Chlorophenol	ND		ug/kg	160	49.
2,4-Dichlorophenol	ND		ug/kg	140	52.
2,4-Dimethylphenol	ND		ug/kg	160	48.
2-Nitrophenol	ND		ug/kg	350	51.

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**Method Blank Analysis  
Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 07/14/15 09:08  
**Analyst:** RC

**Extraction Method:** EPA 3546  
**Extraction Date:** 07/14/15 00:21

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG802310-1					
4-Nitrophenol	ND		ug/kg	230	52.
2,4-Dinitrophenol	ND		ug/kg	780	220
4,6-Dinitro-o-cresol	ND		ug/kg	420	59.
Pentachlorophenol	ND		ug/kg	130	35.
Phenol	ND		ug/kg	160	48.
2-Methylphenol	ND		ug/kg	160	52.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	53.
2,4,5-Trichlorophenol	ND		ug/kg	160	52.
Benzoic Acid	ND		ug/kg	520	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	87		18-120

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TECTILE SERVICES-MW INST

**Lab Number:** L1516038

**Project Number:** 21.0056730.40

**Report Date:** 07/14/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG802310-2 WG802310-3								
Acenaphthene	93		85		31-137	9		50
1,2,4-Trichlorobenzene	81		75		38-107	8		50
Hexachlorobenzene	98		89		40-140	10		50
Bis(2-chloroethyl)ether	78		72		40-140	8		50
2-Chloronaphthalene	90		82		40-140	9		50
1,2-Dichlorobenzene	73		68		40-140	7		50
1,3-Dichlorobenzene	72		67		40-140	7		50
1,4-Dichlorobenzene	72		66		28-104	9		50
3,3'-Dichlorobenzidine	82		75		40-140	9		50
2,4-Dinitrotoluene	100	Q	92	Q	28-89	8		50
2,6-Dinitrotoluene	107		98		40-140	9		50
Fluoranthene	102		95		40-140	7		50
4-Chlorophenyl phenyl ether	95		87		40-140	9		50
4-Bromophenyl phenyl ether	97		88		40-140	10		50
Bis(2-chloroisopropyl)ether	76		70		40-140	8		50
Bis(2-chloroethoxy)methane	88		81		40-117	8		50
Hexachlorobutadiene	80		74		40-140	8		50
Hexachlorocyclopentadiene	92		87		40-140	6		50
Hexachloroethane	74		66		40-140	11		50
Isophorone	90		82		40-140	9		50
Naphthalene	84		78		40-140	7		50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TECTILE SERVICES-MW INST

**Lab Number:** L1516038

**Project Number:** 21.0056730.40

**Report Date:** 07/14/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG802310-2 WG802310-3								
Nitrobenzene	91		86		40-140	6		50
NitrosoDiPhenylAmine(NDPA)/DPA	101		92		36-157	9		50
n-Nitrosodi-n-propylamine	88		81		32-121	8		50
Bis(2-Ethylhexyl)phthalate	123		112		40-140	9		50
Butyl benzyl phthalate	115		105		40-140	9		50
Di-n-butylphthalate	119		108		40-140	10		50
Di-n-octylphthalate	108		98		40-140	10		50
Diethyl phthalate	103		94		40-140	9		50
Dimethyl phthalate	102		93		40-140	9		50
Benzo(a)anthracene	107		99		40-140	8		50
Benzo(a)pyrene	110		100		40-140	10		50
Benzo(b)fluoranthene	100		100		40-140	0		50
Benzo(k)fluoranthene	109		94		40-140	15		50
Chrysene	100		92		40-140	8		50
Acenaphthylene	96		87		40-140	10		50
Anthracene	101		94		40-140	7		50
Benzo(ghi)perylene	104		93		40-140	11		50
Fluorene	96		88		40-140	9		50
Phenanthrene	95		88		40-140	8		50
Dibenzo(a,h)anthracene	106		95		40-140	11		50
Indeno(1,2,3-cd)Pyrene	109		98		40-140	11		50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TECTILE SERVICES-MW INST

**Lab Number:** L1516038

**Project Number:** 21.0056730.40

**Report Date:** 07/14/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG802310-2 WG802310-3								
Pyrene	101		92		35-142	9		50
Biphenyl	92		86		54-104	7		50
4-Chloroaniline	78		70		40-140	11		50
2-Nitroaniline	95		89		47-134	7		50
3-Nitroaniline	93		86		26-129	8		50
4-Nitroaniline	98		91		41-125	7		50
Dibenzofuran	95		87		40-140	9		50
2-Methylnaphthalene	87		81		40-140	7		50
1,2,4,5-Tetrachlorobenzene	87		81		40-117	7		50
Acetophenone	89		82		14-144	8		50
2,4,6-Trichlorophenol	101		93		30-130	8		50
P-Chloro-M-Cresol	<b>105</b>	Q	95		26-103	10		50
2-Chlorophenol	87		80		25-102	8		50
2,4-Dichlorophenol	98		90		30-130	9		50
2,4-Dimethylphenol	95		87		30-130	9		50
2-Nitrophenol	85		81		30-130	5		50
4-Nitrophenol	96		89		11-114	8		50
2,4-Dinitrophenol	73		70		4-130	4		50
4,6-Dinitro-o-cresol	96		93		10-130	3		50
Pentachlorophenol	97		91		17-109	6		50
Phenol	87		81		26-90	7		50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TECTILE SERVICES-MW INST

**Lab Number:** L1516038

**Project Number:** 21.0056730.40

**Report Date:** 07/14/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG802310-2 WG802310-3								
2-Methylphenol	90		84		30-130.	7		50
3-Methylphenol/4-Methylphenol	95		88		30-130	8		50
2,4,5-Trichlorophenol	104		96		30-130	8		50
Benzoic Acid	39		33		10-66	17		50
Benzyl Alcohol	91		84		40-140	8		50
Carbazole	102		94		54-128	8		50

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2-Fluorophenol	83		79		25-120
Phenol-d6	87		81		10-120
Nitrobenzene-d5	89		86		23-120
2-Fluorobiphenyl	88		81		30-120
2,4,6-Tribromophenol	111		103		10-136
4-Terphenyl-d14	97		89		18-120

# **INORGANICS & MISCELLANEOUS**

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

**Lab ID:** L1516038-01  
**Client ID:** MW-6-5-7\_071315  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, N  
**Matrix:** Soil

**Date Collected:** 07/13/15 09:35  
**Date Received:** 07/13/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	72.6		%	0.100	NA	1	-	07/14/15 02:44	30,2540G	LH



**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

**Lab ID:** L1516038-02  
**Client ID:** MW-6-13-15\_071315  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, N  
**Matrix:** Soil

**Date Collected:** 07/13/15 10:00  
**Date Received:** 07/13/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	63.2		%	0.100	NA	1	-	07/14/15 02:44	30,2540G	LH



**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

**Lab ID:** L1516038-03  
**Client ID:** MW-6-17-19\_071315  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, N  
**Matrix:** Soil

**Date Collected:** 07/13/15 10:10  
**Date Received:** 07/13/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.2		%	0.100	NA	1	-	07/14/15 02:44	30,2540G	LH



**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

**Lab ID:** L1516038-04  
**Client ID:** MW-6-23-25\_071315  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, N  
**Matrix:** Soil

**Date Collected:** 07/13/15 11:00  
**Date Received:** 07/13/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.9		%	0.100	NA	1	-	07/14/15 02:44	30,2540G	LH



**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

**Lab ID:** L1516038-05  
**Client ID:** MW-6-31-33\_071315  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, N  
**Matrix:** Soil

**Date Collected:** 07/13/15 11:25  
**Date Received:** 07/13/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.5		%	0.100	NA	1	-	07/14/15 02:44	30,2540G	LH



**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

**Lab ID:** L1516038-06  
**Client ID:** MW-6-35-37\_071315  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, N  
**Matrix:** Soil

**Date Collected:** 07/13/15 11:50  
**Date Received:** 07/13/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.1		%	0.100	NA	1	-	07/14/15 02:44	30,2540G	LH



**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

**Lab ID:** L1516038-07  
**Client ID:** MW-6-49-51\_071315  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, N  
**Matrix:** Soil

**Date Collected:** 07/13/15 13:50  
**Date Received:** 07/13/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.0		%	0.100	NA	1	-	07/14/15 02:44	30,2540G	LH



**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

**SAMPLE RESULTS**

**Lab ID:** L1516038-08  
**Client ID:** MW-6-53-55\_071315  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, N  
**Matrix:** Soil

**Date Collected:** 07/13/15 14:10  
**Date Received:** 07/13/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.9		%	0.100	NA	1	-	07/14/15 02:44	30,2540G	LH



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** COYNE TECTILE SERVICES-MW INST

**Project Number:** 21.0056730.40

**Lab Number:** L1516038

**Report Date:** 07/14/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG802332-1 QC Sample: L1516043-01 Client ID: DUP Sample						
Solids, Total	85.7	86.0	%	0		20

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

### Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

#### Cooler Information Custody Seal

##### Cooler

A Absent

#### Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1516038-01A	Glass 60mL/2oz unpreserved	A	N/A	4.4	Y	Absent	NYTCL-8260(14)
L1516038-01B	Glass 120ml/4oz unpreserved	A	N/A	4.4	Y	Absent	NYTCL-8270(14),TS(7)
L1516038-02A	Glass 60mL/2oz unpreserved	A	N/A	4.4	Y	Absent	TS(7),NYTCL-8260(14)
L1516038-03A	Glass 60mL/2oz unpreserved	A	N/A	4.4	Y	Absent	TS(7),NYTCL-8260(14)
L1516038-04A	Glass 60mL/2oz unpreserved	A	N/A	4.4	Y	Absent	TS(7),NYTCL-8260(14)
L1516038-05A	Glass 60mL/2oz unpreserved	A	N/A	4.4	Y	Absent	TS(7),NYTCL-8260(14)
L1516038-06A	Glass 60mL/2oz unpreserved	A	N/A	4.4	Y	Absent	TS(7),NYTCL-8260(14)
L1516038-07A	Glass 60mL/2oz unpreserved	A	N/A	4.4	Y	Absent	TS(7),NYTCL-8260(14)
L1516038-08A	Glass 60mL/2oz unpreserved	A	N/A	4.4	Y	Absent	TS(7),NYTCL-8260(14)
L1516038-09A	Vial HCl preserved	A	N/A	4.4	Y	Absent	NYTCL-8260(14)
L1516038-09B	Vial HCl preserved	A	N/A	4.4	Y	Absent	NYTCL-8260(14)
L1516038-09C	Vial HCl preserved	A	N/A	4.4	Y	Absent	NYTCL-8260(14)

\*Values in parentheses indicate holding time in days

**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

## 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.
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.
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### 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

<b>A</b>	- Spectra identified as "Aldol Condensation Product".
<b>B</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).
<b>C</b>	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

#### Data Qualifiers

- 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:** COYNE TECTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516038  
**Report Date:** 07/14/15

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

## 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

Last revised December 16, 2014

### The following analytes are not included in our NELAP Scope of Accreditation:

#### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

#### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**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.

### 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,Tl; **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,Tl,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.

 <b>NEW YORK CHAIN OF CUSTODY</b> Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	<b>Service Centers</b> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page	Date Rec'd in Lab <i>7/13/15</i>	ALPHA Job # <i>11516038</i>																																																																																																														
		of																																																																																																																
Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	<b>Project Information</b> Project Name: <i>Gayne Textile Services - MW Installation</i> Project Location: <i>140 Co-Han Ave, Syracuse, NY 13202</i> Project # <i>21,005673040</i>		<b>Deliverables</b> <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input checked="" type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other																																																																																																															
<b>Client Information</b> Client: <i>GZA (Geo-Environmental)</i> Address: <i>535 Washington St 11th Floor</i> <i>Buffalo, NY 14203</i> Phone: <i>716-685-2300</i> Fax: <i>716-685-3629</i> Email: <i>thomas.bohlen@gza.com</i>	(Use Project name as Project #) <input type="checkbox"/> Project Manager: <i>Thomas Bohlen</i> ALPHAQuote #:		<b>Regulatory Requirement</b> <input checked="" type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge																																																																																																															
<b>Turn-Around Time</b> Standard <input type="checkbox"/> Due Date: <i>07/14/15</i> Rush (only if pre approved) <input checked="" type="checkbox"/> # of Days: <i>1</i>		<b>Disposal Site Information</b> Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:																																																																																																																
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments:		<b>ANALYSIS</b>																																																																																																																
Please specify Metals or TAL.		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:5%;">Sample ID</th> <th style="width:5%;">Collection Date</th> <th style="width:5%;">Collection Time</th> <th style="width:5%;">Sample Matrix</th> <th style="width:5%;">Sampler's Initials</th> <th style="width:5%;">Analysis</th> <th style="width:5%;">Analysis</th> <th style="width:5%;">Analysis</th> <th style="width:5%;">Analysis</th> <th style="width:5%;">Analysis</th> <th style="width:5%;">Analysis</th> </tr> <tr> <td><i>16038-01</i></td> <td><i>7/13/15</i></td> <td><i>0935</i></td> <td><i>Soil</i></td> <td><i>PLF</i></td> <td><i>X</i></td> <td><i>X</i></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>02</i></td> <td></td> <td><i>1000</i></td> <td></td> <td><i>PLF</i></td> <td><i>X</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>03</i></td> <td></td> <td><i>1010</i></td> <td></td> <td><i>PLF</i></td> <td><i>X</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>04</i></td> <td></td> <td><i>1100</i></td> <td></td> <td><i>PLF</i></td> <td><i>X</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>05</i></td> <td></td> <td><i>1125</i></td> <td></td> <td><i>PLF</i></td> <td><i>X</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>06</i></td> <td></td> <td><i>1150</i></td> <td></td> <td><i>PLF</i></td> <td><i>X</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>07</i></td> <td></td> <td><i>1350</i></td> <td></td> <td><i>PLF</i></td> <td><i>X</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>08</i></td> <td></td> <td><i>1410</i></td> <td></td> <td><i>PLF</i></td> <td><i>X</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>09</i></td> <td></td> <td></td> <td><i>Aqueous</i></td> <td></td> <td><i>X</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Analysis	Analysis	Analysis	Analysis	Analysis	Analysis	<i>16038-01</i>	<i>7/13/15</i>	<i>0935</i>	<i>Soil</i>	<i>PLF</i>	<i>X</i>	<i>X</i>					<i>02</i>		<i>1000</i>		<i>PLF</i>	<i>X</i>						<i>03</i>		<i>1010</i>		<i>PLF</i>	<i>X</i>						<i>04</i>		<i>1100</i>		<i>PLF</i>	<i>X</i>						<i>05</i>		<i>1125</i>		<i>PLF</i>	<i>X</i>						<i>06</i>		<i>1150</i>		<i>PLF</i>	<i>X</i>						<i>07</i>		<i>1350</i>		<i>PLF</i>	<i>X</i>						<i>08</i>		<i>1410</i>		<i>PLF</i>	<i>X</i>						<i>09</i>			<i>Aqueous</i>		<i>X</i>					
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Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015																																																																																																														
Container Type <i>A/V</i> <i>A</i>		Preservative <i>A/B</i> <i>A</i>		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)																																																																																																														
Relinquished By: <i>Patrick Finnerdy</i> Date/Time: <i>07/13/15 1630</i>		Received By: <i>APL</i> Date/Time: <i>7/13/15 16:30</i>		Relinquished By: <i>John Cole</i> Date/Time: <i>7/13/15 2330</i>																																																																																																														



## ANALYTICAL REPORT

Lab Number:	L1516325
Client:	The Palmerton Group 535 Washington Street 11th Floor Buffalo, NY 14203
ATTN:	Thomas Bohlen
Phone:	(716) 844-7050
Project Name:	COYNE TEXTILE SERVICES-MW INST
Project Number:	21.0056730.40
Report Date:	07/16/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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).

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1516325-01	MW-7-7-9-71515	SOIL	140 CORTLAND AVE. SYRACUSE, NY 13202	07/15/15 09:30	07/15/15
L1516325-02	MW-7-19-21-71515	SOIL	140 CORTLAND AVE. SYRACUSE, NY 13202	07/15/15 10:00	07/15/15
L1516325-03	MW-7-21-23-71515	SOIL	140 CORTLAND AVE. SYRACUSE, NY 13202	07/15/15 10:05	07/15/15
L1516325-04	MW-7-29-31-71515	SOIL	140 CORTLAND AVE. SYRACUSE, NY 13202	07/15/15 11:10	07/15/15
L1516325-05	MW-7-41-43-71515	SOIL	140 CORTLAND AVE. SYRACUSE, NY 13202	07/15/15 13:15	07/15/15
L1516325-06	MW-7-51-53-71515	SOIL	140 CORTLAND AVE. SYRACUSE, NY 13202	07/15/15 14:00	07/15/15
L1516325-07	FIELD DUPLICATE-001-71515	SOIL	140 CORTLAND AVE. SYRACUSE, NY 13202	07/15/15 00:00	07/15/15
L1516325-08	TRIP BLANK-004-71515	WATER	140 CORTLAND AVE. SYRACUSE, NY 13202	07/15/15 00:00	07/15/15

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

### 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 all of the requirements of NELAC, for all NELAC accredited parameters. 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.

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**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

### 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

A Trip Blank was listed on the Chain of Custody, but not received in the laboratory.

#### Volatile Organics

Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

L1516325-01: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

L1516325-05: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (23%) and the surrogate recovery for 4-bromofluorobenzene (175%) were outside the acceptance criteria; however, re-analysis achieved similar results: 1,4-dichlorobenzene-d4 (19%) and 4-bromofluorobenzene (186%). The results of both analyses are reported.

L1516325-06: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (31%) and the surrogate recovery for 4-bromofluorobenzene (158%) were outside the acceptance criteria; however, re-analysis achieved similar results: 1,4-dichlorobenzene-d4 (36%) and 4-bromofluorobenzene (149%). The results of both analyses are 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:

 Cristin Walker

Title: Technical Director/Representative

Date: 07/16/15

# ORGANICS

# VOLATILES

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**SAMPLE RESULTS**

Lab ID: L1516325-01 D  
 Client ID: MW-7-7-9-71515  
 Sample Location: 140 CORTLAND AVE. SYRACUSE, NY 13202  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/16/15 09:38  
 Analyst: BN  
 Percent Solids: 70%

Date Collected: 07/15/15 09:30  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Volatile Organics by GC/MS - Westborough Lab**

Methylene chloride	ND		ug/kg	36	3.9	2.5
1,1-Dichloroethane	ND		ug/kg	5.3	0.30	2.5
Chloroform	ND		ug/kg	5.3	1.3	2.5
Carbon tetrachloride	ND		ug/kg	3.6	0.75	2.5
1,2-Dichloropropane	ND		ug/kg	12	0.81	2.5
Dibromochloromethane	ND		ug/kg	3.6	0.55	2.5
1,1,2-Trichloroethane	ND		ug/kg	5.3	1.1	2.5
Tetrachloroethene	ND		ug/kg	3.6	0.50	2.5
Chlorobenzene	ND		ug/kg	3.6	1.2	2.5
Trichlorofluoromethane	ND		ug/kg	18	1.4	2.5
1,2-Dichloroethane	ND		ug/kg	3.6	0.40	2.5
1,1,1-Trichloroethane	ND		ug/kg	3.6	0.40	2.5
Bromodichloromethane	ND		ug/kg	3.6	0.62	2.5
trans-1,3-Dichloropropene	ND		ug/kg	3.6	0.43	2.5
cis-1,3-Dichloropropene	ND		ug/kg	3.6	0.42	2.5
Bromoform	ND		ug/kg	14	0.84	2.5
1,1,2,2-Tetrachloroethane	ND		ug/kg	3.6	0.36	2.5
Benzene	ND		ug/kg	3.6	0.42	2.5
Toluene	ND		ug/kg	5.3	0.69	2.5
Ethylbenzene	ND		ug/kg	3.6	0.45	2.5
Chloromethane	ND		ug/kg	18	1.0	2.5
Bromomethane	ND		ug/kg	7.1	1.2	2.5
Vinyl chloride	ND		ug/kg	7.1	0.42	2.5
Chloroethane	ND		ug/kg	7.1	1.1	2.5
1,1-Dichloroethene	ND		ug/kg	3.6	0.93	2.5
trans-1,2-Dichloroethene	ND		ug/kg	5.3	0.76	2.5
Trichloroethene	ND		ug/kg	3.6	0.44	2.5
1,2-Dichlorobenzene	ND		ug/kg	18	0.55	2.5
1,3-Dichlorobenzene	ND		ug/kg	18	0.48	2.5
1,4-Dichlorobenzene	ND		ug/kg	18	0.49	2.5

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**SAMPLE RESULTS**

Lab ID: L1516325-01 D  
 Client ID: MW-7-7-9-71515  
 Sample Location: 140 CORTLAND AVE. SYRACUSE, NY 13202

Date Collected: 07/15/15 09:30  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	7.1	0.30	2.5
p/m-Xylene	ND		ug/kg	7.1	0.70	2.5
o-Xylene	ND		ug/kg	7.1	0.61	2.5
cis-1,2-Dichloroethene	ND		ug/kg	3.6	0.51	2.5
Styrene	ND		ug/kg	7.1	1.4	2.5
Dichlorodifluoromethane	ND		ug/kg	36	0.68	2.5
Acetone	86		ug/kg	36	3.7	2.5
Carbon disulfide	ND		ug/kg	36	3.9	2.5
2-Butanone	19	J	ug/kg	36	0.97	2.5
4-Methyl-2-pentanone	ND		ug/kg	36	0.87	2.5
2-Hexanone	ND		ug/kg	36	2.4	2.5
Bromochloromethane	ND		ug/kg	18	0.98	2.5
1,2-Dibromoethane	ND		ug/kg	14	0.62	2.5
n-Butylbenzene	56		ug/kg	3.6	0.41	2.5
sec-Butylbenzene	76		ug/kg	3.6	0.44	2.5
tert-Butylbenzene	2.8	J	ug/kg	18	0.48	2.5
1,2-Dibromo-3-chloropropane	ND		ug/kg	18	1.4	2.5
Isopropylbenzene	21		ug/kg	3.6	0.37	2.5
p-Isopropyltoluene	ND		ug/kg	3.6	0.44	2.5
Naphthalene	ND		ug/kg	18	0.49	2.5
n-Propylbenzene	14		ug/kg	3.6	0.39	2.5
1,2,3-Trichlorobenzene	ND		ug/kg	18	0.53	2.5
1,2,4-Trichlorobenzene	ND		ug/kg	18	0.65	2.5
1,3,5-Trimethylbenzene	ND		ug/kg	18	0.51	2.5
1,2,4-Trimethylbenzene	ND		ug/kg	18	0.50	2.5
Methyl Acetate	ND		ug/kg	71	0.96	2.5
Cyclohexane	ND		ug/kg	71	0.52	2.5
1,4-Dioxane	ND		ug/kg	360	51.	2.5
Freon-113	ND		ug/kg	71	0.98	2.5
Methyl cyclohexane	4.5	J	ug/kg	14	0.55	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	103		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**SAMPLE RESULTS**

Lab ID: L1516325-02  
 Client ID: MW-7-19-21-71515  
 Sample Location: 140 CORTLAND AVE. SYRACUSE, NY 13202  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/16/15 10:05  
 Analyst: BN  
 Percent Solids: 90%

Date Collected: 07/15/15 10:00  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.10	1
Chloroform	ND		ug/kg	1.7	0.41	1
Carbon tetrachloride	ND		ug/kg	1.1	0.23	1
1,2-Dichloropropane	ND		ug/kg	3.9	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.16	1
Chlorobenzene	ND		ug/kg	1.1	0.39	1
Trichlorofluoromethane	ND		ug/kg	5.6	0.43	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.13	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
Bromoform	ND		ug/kg	4.4	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	0.59	J	ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Chloromethane	ND		ug/kg	5.6	0.33	1
Bromomethane	ND		ug/kg	2.2	0.38	1
Vinyl chloride	95		ug/kg	2.2	0.13	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	0.50	J	ug/kg	1.1	0.29	1
trans-1,2-Dichloroethene	2.2		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.1	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	5.6	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	5.6	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	5.6	0.15	1

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**SAMPLE RESULTS**

**Lab ID:** L1516325-02  
**Client ID:** MW-7-19-21-71515  
**Sample Location:** 140 CORTLAND AVE. SYRACUSE, NY 13202

**Date Collected:** 07/15/15 10:00  
**Date Received:** 07/15/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	2.2	0.09	1
p/m-Xylene	ND		ug/kg	2.2	0.22	1
o-Xylene	ND		ug/kg	2.2	0.19	1
cis-1,2-Dichloroethene	260		ug/kg	1.1	0.16	1
Styrene	ND		ug/kg	2.2	0.45	1
Dichlorodifluoromethane	ND		ug/kg	11	0.21	1
Acetone	ND		ug/kg	11	1.2	1
Carbon disulfide	2.7	J	ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.30	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
2-Hexanone	ND		ug/kg	11	0.74	1
Bromochloromethane	ND		ug/kg	5.6	0.31	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.19	1
n-Butylbenzene	ND		ug/kg	1.1	0.13	1
sec-Butylbenzene	ND		ug/kg	1.1	0.14	1
tert-Butylbenzene	ND		ug/kg	5.6	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.6	0.44	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.14	1
Naphthalene	ND		ug/kg	5.6	0.15	1
n-Propylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.6	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.6	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.6	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.6	0.16	1
Methyl Acetate	ND		ug/kg	22	0.30	1
Cyclohexane	ND		ug/kg	22	0.16	1
1,4-Dioxane	ND		ug/kg	110	16.	1
Freon-113	ND		ug/kg	22	0.30	1
Methyl cyclohexane	ND		ug/kg	4.4	0.17	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	102		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**SAMPLE RESULTS**

Lab ID: L1516325-03  
 Client ID: MW-7-21-23-71515  
 Sample Location: 140 CORTLAND AVE. SYRACUSE, NY 13202  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/16/15 09:12  
 Analyst: BN  
 Percent Solids: 75%

Date Collected: 07/15/15 10:05  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	13	1.5	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.11	1
Chloroform	ND		ug/kg	2.0	0.49	1
Carbon tetrachloride	ND		ug/kg	1.3	0.28	1
1,2-Dichloropropane	ND		ug/kg	4.7	0.30	1
Dibromochloromethane	ND		ug/kg	1.3	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	0.40	1
Tetrachloroethene	ND		ug/kg	1.3	0.19	1
Chlorobenzene	ND		ug/kg	1.3	0.46	1
Trichlorofluoromethane	ND		ug/kg	6.7	0.52	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.15	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.15	1
Bromodichloromethane	ND		ug/kg	1.3	0.23	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.16	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.16	1
Bromoform	ND		ug/kg	5.3	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.13	1
Benzene	ND		ug/kg	1.3	0.16	1
Toluene	ND		ug/kg	2.0	0.26	1
Ethylbenzene	ND		ug/kg	1.3	0.17	1
Chloromethane	ND		ug/kg	6.7	0.39	1
Bromomethane	ND		ug/kg	2.7	0.45	1
Vinyl chloride	91		ug/kg	2.7	0.16	1
Chloroethane	ND		ug/kg	2.7	0.42	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.35	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.28	1
Trichloroethene	ND		ug/kg	1.3	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	6.7	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	6.7	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	6.7	0.18	1

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**SAMPLE RESULTS**

**Lab ID:** L1516325-03  
**Client ID:** MW-7-21-23-71515  
**Sample Location:** 140 CORTLAND AVE. SYRACUSE, NY 13202

**Date Collected:** 07/15/15 10:05  
**Date Received:** 07/15/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	2.7	0.11	1
p/m-Xylene	ND		ug/kg	2.7	0.26	1
o-Xylene	ND		ug/kg	2.7	0.23	1
cis-1,2-Dichloroethene	0.43	J	ug/kg	1.3	0.19	1
Styrene	ND		ug/kg	2.7	0.54	1
Dichlorodifluoromethane	ND		ug/kg	13	0.25	1
Acetone	ND		ug/kg	13	1.4	1
Carbon disulfide	ND		ug/kg	13	1.5	1
2-Butanone	ND		ug/kg	13	0.36	1
4-Methyl-2-pentanone	ND		ug/kg	13	0.32	1
2-Hexanone	ND		ug/kg	13	0.89	1
Bromochloromethane	ND		ug/kg	6.7	0.37	1
1,2-Dibromoethane	ND		ug/kg	5.3	0.23	1
n-Butylbenzene	ND		ug/kg	1.3	0.15	1
sec-Butylbenzene	ND		ug/kg	1.3	0.16	1
tert-Butylbenzene	ND		ug/kg	6.7	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.7	0.53	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.17	1
Naphthalene	ND		ug/kg	6.7	0.18	1
n-Propylbenzene	ND		ug/kg	1.3	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.7	0.20	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.7	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.7	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.7	0.19	1
Methyl Acetate	ND		ug/kg	27	0.36	1
Cyclohexane	ND		ug/kg	27	0.19	1
1,4-Dioxane	ND		ug/kg	130	19.	1
Freon-113	ND		ug/kg	27	0.36	1
Methyl cyclohexane	ND		ug/kg	5.3	0.21	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	121		70-130
Dibromofluoromethane	100		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**SAMPLE RESULTS**

Lab ID: L1516325-04  
 Client ID: MW-7-29-31-71515  
 Sample Location: 140 CORTLAND AVE. SYRACUSE, NY 13202  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/16/15 09:39  
 Analyst: BN  
 Percent Solids: 80%

Date Collected: 07/15/15 11:10  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	12	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.11	1
Chloroform	ND		ug/kg	1.9	0.46	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.4	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.38	1
Tetrachloroethene	ND		ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.43	1
Trichlorofluoromethane	ND		ug/kg	6.2	0.48	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.14	1
Bromodichloromethane	ND		ug/kg	1.2	0.22	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
Bromoform	ND		ug/kg	5.0	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.15	1
Toluene	ND		ug/kg	1.9	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	6.2	0.37	1
Bromomethane	ND		ug/kg	2.5	0.42	1
Vinyl chloride	ND		ug/kg	2.5	0.15	1
Chloroethane	ND		ug/kg	2.5	0.39	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.26	1
Trichloroethene	ND		ug/kg	1.2	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	6.2	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	6.2	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	6.2	0.17	1

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**SAMPLE RESULTS**

**Lab ID:** L1516325-04  
**Client ID:** MW-7-29-31-71515  
**Sample Location:** 140 CORTLAND AVE. SYRACUSE, NY 13202

**Date Collected:** 07/15/15 11:10  
**Date Received:** 07/15/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	2.5	0.10	1
p/m-Xylene	ND		ug/kg	2.5	0.25	1
o-Xylene	ND		ug/kg	2.5	0.21	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.18	1
Styrene	ND		ug/kg	2.5	0.50	1
Dichlorodifluoromethane	ND		ug/kg	12	0.24	1
Acetone	ND		ug/kg	12	1.3	1
Carbon disulfide	ND		ug/kg	12	1.4	1
2-Butanone	ND		ug/kg	12	0.34	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
2-Hexanone	ND		ug/kg	12	0.83	1
Bromochloromethane	ND		ug/kg	6.2	0.34	1
1,2-Dibromoethane	ND		ug/kg	5.0	0.22	1
n-Butylbenzene	ND		ug/kg	1.2	0.14	1
sec-Butylbenzene	ND		ug/kg	1.2	0.15	1
tert-Butylbenzene	ND		ug/kg	6.2	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.2	0.49	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.16	1
Naphthalene	ND		ug/kg	6.2	0.17	1
n-Propylbenzene	ND		ug/kg	1.2	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.2	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.2	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.2	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.2	0.18	1
Methyl Acetate	ND		ug/kg	25	0.34	1
Cyclohexane	ND		ug/kg	25	0.18	1
1,4-Dioxane	ND		ug/kg	120	18.	1
Freon-113	ND		ug/kg	25	0.34	1
Methyl cyclohexane	ND		ug/kg	5.0	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	102		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**SAMPLE RESULTS**

Lab ID: L1516325-05  
 Client ID: MW-7-41-43-71515  
 Sample Location: 140 CORTLAND AVE. SYRACUSE, NY 13202  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/16/15 10:06  
 Analyst: BN  
 Percent Solids: 80%

Date Collected: 07/15/15 13:15  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	12	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.11	1
Chloroform	ND		ug/kg	1.9	0.46	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.4	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.38	1
Tetrachloroethene	ND		ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.43	1
Trichlorofluoromethane	ND		ug/kg	6.2	0.48	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.14	1
Bromodichloromethane	ND		ug/kg	1.2	0.22	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
Bromoform	ND		ug/kg	5.0	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.15	1
Toluene	ND		ug/kg	1.9	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	6.2	0.37	1
Bromomethane	ND		ug/kg	2.5	0.42	1
Vinyl chloride	ND		ug/kg	2.5	0.15	1
Chloroethane	ND		ug/kg	2.5	0.39	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.26	1
Trichloroethene	ND		ug/kg	1.2	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	6.2	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	6.2	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	6.2	0.17	1

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**SAMPLE RESULTS**

**Lab ID:** L1516325-05  
**Client ID:** MW-7-41-43-71515  
**Sample Location:** 140 CORTLAND AVE. SYRACUSE, NY 13202

**Date Collected:** 07/15/15 13:15  
**Date Received:** 07/15/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	2.5	0.10	1
p/m-Xylene	ND		ug/kg	2.5	0.25	1
o-Xylene	ND		ug/kg	2.5	0.21	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.18	1
Styrene	ND		ug/kg	2.5	0.50	1
Dichlorodifluoromethane	ND		ug/kg	12	0.24	1
Acetone	ND		ug/kg	12	1.3	1
Carbon disulfide	ND		ug/kg	12	1.4	1
2-Butanone	ND		ug/kg	12	0.34	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
2-Hexanone	ND		ug/kg	12	0.83	1
Bromochloromethane	ND		ug/kg	6.2	0.34	1
1,2-Dibromoethane	ND		ug/kg	5.0	0.22	1
n-Butylbenzene	ND		ug/kg	1.2	0.14	1
sec-Butylbenzene	ND		ug/kg	1.2	0.15	1
tert-Butylbenzene	ND		ug/kg	6.2	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.2	0.49	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.16	1
Naphthalene	ND		ug/kg	6.2	0.17	1
n-Propylbenzene	ND		ug/kg	1.2	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.2	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.2	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.2	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.2	0.18	1
Methyl Acetate	ND		ug/kg	25	0.34	1
Cyclohexane	ND		ug/kg	25	0.18	1
1,4-Dioxane	ND		ug/kg	120	18.	1
Freon-113	ND		ug/kg	25	0.34	1
Methyl cyclohexane	ND		ug/kg	5.0	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	119		70-130
4-Bromofluorobenzene	<b>175</b>	Q	70-130
Dibromofluoromethane	101		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**SAMPLE RESULTS**

Lab ID: L1516325-05 R  
 Client ID: MW-7-41-43-71515  
 Sample Location: 140 CORTLAND AVE. SYRACUSE, NY 13202  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/16/15 11:54  
 Analyst: BN  
 Percent Solids: 80%

Date Collected: 07/15/15 13:15  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	12	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.11	1
Chloroform	ND		ug/kg	1.9	0.46	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.4	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.38	1
Tetrachloroethene	ND		ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.43	1
Trichlorofluoromethane	ND		ug/kg	6.2	0.48	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.14	1
Bromodichloromethane	ND		ug/kg	1.2	0.22	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
Bromoform	ND		ug/kg	5.0	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.15	1
Toluene	ND		ug/kg	1.9	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	6.2	0.37	1
Bromomethane	ND		ug/kg	2.5	0.42	1
Vinyl chloride	ND		ug/kg	2.5	0.15	1
Chloroethane	ND		ug/kg	2.5	0.39	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.26	1
Trichloroethene	ND		ug/kg	1.2	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	6.2	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	6.2	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	6.2	0.17	1

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**SAMPLE RESULTS**

Lab ID: L1516325-05 R  
 Client ID: MW-7-41-43-71515  
 Sample Location: 140 CORTLAND AVE. SYRACUSE, NY 13202

Date Collected: 07/15/15 13:15  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	2.5	0.10	1
p/m-Xylene	ND		ug/kg	2.5	0.25	1
o-Xylene	ND		ug/kg	2.5	0.21	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.18	1
Styrene	ND		ug/kg	2.5	0.50	1
Dichlorodifluoromethane	ND		ug/kg	12	0.24	1
Acetone	ND		ug/kg	12	1.3	1
Carbon disulfide	ND		ug/kg	12	1.4	1
2-Butanone	ND		ug/kg	12	0.34	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
2-Hexanone	ND		ug/kg	12	0.83	1
Bromochloromethane	ND		ug/kg	6.2	0.34	1
1,2-Dibromoethane	ND		ug/kg	5.0	0.22	1
n-Butylbenzene	ND		ug/kg	1.2	0.14	1
sec-Butylbenzene	ND		ug/kg	1.2	0.15	1
tert-Butylbenzene	ND		ug/kg	6.2	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.2	0.49	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.16	1
Naphthalene	ND		ug/kg	6.2	0.17	1
n-Propylbenzene	ND		ug/kg	1.2	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.2	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.2	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.2	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.2	0.18	1
Methyl Acetate	ND		ug/kg	25	0.34	1
Cyclohexane	ND		ug/kg	25	0.18	1
1,4-Dioxane	ND		ug/kg	120	18.	1
Freon-113	ND		ug/kg	25	0.34	1
Methyl cyclohexane	ND		ug/kg	5.0	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	122		70-130
4-Bromofluorobenzene	<b>186</b>	Q	70-130
Dibromofluoromethane	105		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**SAMPLE RESULTS**

Lab ID: L1516325-06  
 Client ID: MW-7-51-53-71515  
 Sample Location: 140 CORTLAND AVE. SYRACUSE, NY 13202  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/16/15 10:33  
 Analyst: BN  
 Percent Solids: 81%

Date Collected: 07/15/15 14:00  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	12	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.10	1
Chloroform	ND		ug/kg	1.8	0.46	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.3	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.37	1
Tetrachloroethene	ND		ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.43	1
Trichlorofluoromethane	ND		ug/kg	6.2	0.48	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.14	1
Bromodichloromethane	ND		ug/kg	1.2	0.21	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
Bromoform	ND		ug/kg	4.9	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	6.2	0.36	1
Bromomethane	ND		ug/kg	2.5	0.42	1
Vinyl chloride	0.49	J	ug/kg	2.5	0.14	1
Chloroethane	ND		ug/kg	2.5	0.39	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.26	1
Trichloroethene	ND		ug/kg	1.2	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	6.2	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	6.2	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	6.2	0.17	1

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**SAMPLE RESULTS**

**Lab ID:** L1516325-06  
**Client ID:** MW-7-51-53-71515  
**Sample Location:** 140 CORTLAND AVE. SYRACUSE, NY 13202

**Date Collected:** 07/15/15 14:00  
**Date Received:** 07/15/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	2.5	0.10	1
p/m-Xylene	ND		ug/kg	2.5	0.24	1
o-Xylene	ND		ug/kg	2.5	0.21	1
cis-1,2-Dichloroethene	0.33	J	ug/kg	1.2	0.18	1
Styrene	ND		ug/kg	2.5	0.50	1
Dichlorodifluoromethane	ND		ug/kg	12	0.23	1
Acetone	ND		ug/kg	12	1.3	1
Carbon disulfide	ND		ug/kg	12	1.4	1
2-Butanone	ND		ug/kg	12	0.33	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
2-Hexanone	ND		ug/kg	12	0.82	1
Bromochloromethane	ND		ug/kg	6.2	0.34	1
1,2-Dibromoethane	ND		ug/kg	4.9	0.21	1
n-Butylbenzene	ND		ug/kg	1.2	0.14	1
sec-Butylbenzene	ND		ug/kg	1.2	0.15	1
tert-Butylbenzene	ND		ug/kg	6.2	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.2	0.49	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.15	1
Naphthalene	ND		ug/kg	6.2	0.17	1
n-Propylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.2	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.2	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.2	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.2	0.17	1
Methyl Acetate	ND		ug/kg	25	0.33	1
Cyclohexane	ND		ug/kg	25	0.18	1
1,4-Dioxane	ND		ug/kg	120	18.	1
Freon-113	ND		ug/kg	25	0.34	1
Methyl cyclohexane	ND		ug/kg	4.9	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	114		70-130
4-Bromofluorobenzene	<b>158</b>	Q	70-130
Dibromofluoromethane	102		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**SAMPLE RESULTS**

Lab ID: L1516325-06 R  
 Client ID: MW-7-51-53-71515  
 Sample Location: 140 CORTLAND AVE. SYRACUSE, NY 13202  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/16/15 12:21  
 Analyst: BN  
 Percent Solids: 81%

Date Collected: 07/15/15 14:00  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	12	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.10	1
Chloroform	ND		ug/kg	1.8	0.46	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.3	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.37	1
Tetrachloroethene	ND		ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.43	1
Trichlorofluoromethane	ND		ug/kg	6.2	0.48	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.14	1
Bromodichloromethane	ND		ug/kg	1.2	0.21	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
Bromoform	ND		ug/kg	4.9	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	6.2	0.36	1
Bromomethane	ND		ug/kg	2.5	0.42	1
Vinyl chloride	0.27	J	ug/kg	2.5	0.14	1
Chloroethane	ND		ug/kg	2.5	0.39	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.26	1
Trichloroethene	ND		ug/kg	1.2	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	6.2	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	6.2	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	6.2	0.17	1

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**SAMPLE RESULTS**

Lab ID: L1516325-06 R  
 Client ID: MW-7-51-53-71515  
 Sample Location: 140 CORTLAND AVE. SYRACUSE, NY 13202

Date Collected: 07/15/15 14:00  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	2.5	0.10	1
p/m-Xylene	ND		ug/kg	2.5	0.24	1
o-Xylene	ND		ug/kg	2.5	0.21	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.18	1
Styrene	ND		ug/kg	2.5	0.50	1
Dichlorodifluoromethane	ND		ug/kg	12	0.23	1
Acetone	ND		ug/kg	12	1.3	1
Carbon disulfide	ND		ug/kg	12	1.4	1
2-Butanone	ND		ug/kg	12	0.33	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
2-Hexanone	ND		ug/kg	12	0.82	1
Bromochloromethane	ND		ug/kg	6.2	0.34	1
1,2-Dibromoethane	ND		ug/kg	4.9	0.21	1
n-Butylbenzene	ND		ug/kg	1.2	0.14	1
sec-Butylbenzene	ND		ug/kg	1.2	0.15	1
tert-Butylbenzene	ND		ug/kg	6.2	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.2	0.49	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.15	1
Naphthalene	ND		ug/kg	6.2	0.17	1
n-Propylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.2	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.2	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.2	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.2	0.17	1
Methyl Acetate	ND		ug/kg	25	0.33	1
Cyclohexane	ND		ug/kg	25	0.18	1
1,4-Dioxane	ND		ug/kg	120	18.	1
Freon-113	ND		ug/kg	25	0.34	1
Methyl cyclohexane	ND		ug/kg	4.9	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	<b>149</b>	Q	70-130
Dibromofluoromethane	101		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**SAMPLE RESULTS**

Lab ID: L1516325-07 D  
 Client ID: FIELD DUPLICATE-001-71515  
 Sample Location: 140 CORTLAND AVE. SYRACUSE, NY 13202  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/16/15 12:47  
 Analyst: BN  
 Percent Solids: 90%

Date Collected: 07/15/15 00:00  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	55	6.1	5
1,1-Dichloroethane	ND		ug/kg	8.3	0.47	5
Chloroform	ND		ug/kg	8.3	2.0	5
Carbon tetrachloride	ND		ug/kg	5.5	1.2	5
1,2-Dichloropropane	ND		ug/kg	19	1.3	5
Dibromochloromethane	ND		ug/kg	5.5	0.85	5
1,1,2-Trichloroethane	ND		ug/kg	8.3	1.7	5
Tetrachloroethene	ND		ug/kg	5.5	0.78	5
Chlorobenzene	ND		ug/kg	5.5	1.9	5
Trichlorofluoromethane	ND		ug/kg	28	2.2	5
1,2-Dichloroethane	ND		ug/kg	5.5	0.63	5
1,1,1-Trichloroethane	ND		ug/kg	5.5	0.61	5
Bromodichloromethane	ND		ug/kg	5.5	0.96	5
trans-1,3-Dichloropropene	ND		ug/kg	5.5	0.67	5
cis-1,3-Dichloropropene	ND		ug/kg	5.5	0.65	5
Bromoform	ND		ug/kg	22	1.3	5
1,1,2,2-Tetrachloroethane	ND		ug/kg	5.5	0.56	5
Benzene	4.8	J	ug/kg	5.5	0.65	5
Toluene	ND		ug/kg	8.3	1.1	5
Ethylbenzene	ND		ug/kg	5.5	0.71	5
Chloromethane	ND		ug/kg	28	1.6	5
Bromomethane	ND		ug/kg	11	1.9	5
Vinyl chloride	750		ug/kg	11	0.65	5
Chloroethane	ND		ug/kg	11	1.8	5
1,1-Dichloroethene	4.7	J	ug/kg	5.5	1.4	5
trans-1,2-Dichloroethene	15		ug/kg	8.3	1.2	5
Trichloroethene	ND		ug/kg	5.5	0.69	5
1,2-Dichlorobenzene	ND		ug/kg	28	0.85	5
1,3-Dichlorobenzene	ND		ug/kg	28	0.75	5
1,4-Dichlorobenzene	ND		ug/kg	28	0.77	5

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**SAMPLE RESULTS**

Lab ID: L1516325-07 D  
 Client ID: FIELD DUPLICATE-001-71515  
 Sample Location: 140 CORTLAND AVE. SYRACUSE, NY 13202

Date Collected: 07/15/15 00:00  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	11	0.47	5
p/m-Xylene	ND		ug/kg	11	1.1	5
o-Xylene	ND		ug/kg	11	0.95	5
cis-1,2-Dichloroethene	1600		ug/kg	5.5	0.79	5
Styrene	ND		ug/kg	11	2.2	5
Dichlorodifluoromethane	ND		ug/kg	55	1.0	5
Acetone	ND		ug/kg	55	5.7	5
Carbon disulfide	29	J	ug/kg	55	6.1	5
2-Butanone	ND		ug/kg	55	1.5	5
4-Methyl-2-pentanone	ND		ug/kg	55	1.4	5
2-Hexanone	ND		ug/kg	55	3.7	5
Bromochloromethane	ND		ug/kg	28	1.5	5
1,2-Dibromoethane	ND		ug/kg	22	0.97	5
n-Butylbenzene	ND		ug/kg	5.5	0.64	5
sec-Butylbenzene	ND		ug/kg	5.5	0.68	5
tert-Butylbenzene	ND		ug/kg	28	0.75	5
1,2-Dibromo-3-chloropropane	ND		ug/kg	28	2.2	5
Isopropylbenzene	ND		ug/kg	5.5	0.58	5
p-Isopropyltoluene	ND		ug/kg	5.5	0.69	5
Naphthalene	ND		ug/kg	28	0.77	5
n-Propylbenzene	ND		ug/kg	5.5	0.60	5
1,2,3-Trichlorobenzene	ND		ug/kg	28	0.82	5
1,2,4-Trichlorobenzene	ND		ug/kg	28	1.0	5
1,3,5-Trimethylbenzene	ND		ug/kg	28	0.79	5
1,2,4-Trimethylbenzene	ND		ug/kg	28	0.78	5
Methyl Acetate	ND		ug/kg	110	1.5	5
Cyclohexane	ND		ug/kg	110	0.81	5
1,4-Dioxane	ND		ug/kg	550	80.	5
Freon-113	ND		ug/kg	110	1.5	5
Methyl cyclohexane	ND		ug/kg	22	0.86	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	101		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/16/15 08:44  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG803326-3					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
2-Chloroethylvinyl ether	ND		ug/kg	20	0.62
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.12
1,1-Dichloropropene	ND		ug/kg	5.0	0.14
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/16/15 08:44  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG803326-3					
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.20
o-Xylene	ND		ug/kg	2.0	0.17
Xylene (Total)	ND		ug/kg	2.0	0.17
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
1,2-Dichloroethene (total)	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
Vinyl acetate	ND		ug/kg	10	0.13
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.16
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
2,2-Dichloropropane	ND		ug/kg	5.0	0.23
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,3-Dichloropropane	ND		ug/kg	5.0	0.14
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
tert-Butylbenzene	ND		ug/kg	5.0	0.14

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/16/15 08:44  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG803326-3					
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.13
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.23
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
Isopropyl Ether	ND		ug/kg	4.0	0.14
tert-Butyl Alcohol	ND		ug/kg	60	2.9
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
Methyl Acetate	ND		ug/kg	20	0.27
Ethyl Acetate	ND		ug/kg	20	0.92
Acrolein	ND		ug/kg	25	8.1
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	0.27
1,4-Diethylbenzene	ND		ug/kg	4.0	0.16
4-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Tetrahydrofuran	ND		ug/kg	20	1.0
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39
Methyl cyclohexane	ND		ug/kg	4.0	0.15
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.12

Project Name: COYNE TEXTILE SERVICES-MW INST

Lab Number: L1516325

Project Number: 21.0056730.40

Report Date: 07/16/15

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 07/16/15 08:44  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG803326-3					
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.10

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	83		70-130
Dibromofluoromethane	106		70-130

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/16/15 08:45  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-07 Batch: WG803351-3					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
2-Chloroethylvinyl ether	ND		ug/kg	20	0.62
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.12
1,1-Dichloropropene	ND		ug/kg	5.0	0.14
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	0.30	J	ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/16/15 08:45  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-07 Batch: WG803351-3					
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.20
o-Xylene	ND		ug/kg	2.0	0.17
Xylene (Total)	ND		ug/kg	2.0	0.17
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
1,2-Dichloroethene (total)	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
Vinyl acetate	ND		ug/kg	10	0.13
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.16
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
2,2-Dichloropropane	ND		ug/kg	5.0	0.23
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,3-Dichloropropane	ND		ug/kg	5.0	0.14
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
tert-Butylbenzene	ND		ug/kg	5.0	0.14

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/16/15 08:45  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-07 Batch: WG803351-3					
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.13
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.23
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
Isopropyl Ether	ND		ug/kg	4.0	0.14
tert-Butyl Alcohol	ND		ug/kg	60	2.9
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
Methyl Acetate	ND		ug/kg	20	0.27
Ethyl Acetate	ND		ug/kg	20	0.92
Acrolein	ND		ug/kg	25	8.1
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	0.27
1,4-Diethylbenzene	ND		ug/kg	4.0	0.16
4-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Tetrahydrofuran	ND		ug/kg	20	1.0
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39
Methyl cyclohexane	ND		ug/kg	4.0	0.15
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.12

Project Name: COYNE TEXTILE SERVICES-MW INST

Lab Number: L1516325

Project Number: 21.0056730.40

Report Date: 07/16/15

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 07/16/15 08:45  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-07 Batch: WG803351-3					
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.10

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	101		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516325

**Project Number:** 21.0056730.40

**Report Date:** 07/16/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG803326-1 WG803326-2								
Methylene chloride	100		96		70-130	4		30
1,1-Dichloroethane	105		99		70-130	6		30
Chloroform	104		102		70-130	2		30
Carbon tetrachloride	111		102		70-130	8		30
1,2-Dichloropropane	92		91		70-130	1		30
Dibromochloromethane	100		100		70-130	0		30
2-Chloroethylvinyl ether	70		75		70-130	7		30
1,1,2-Trichloroethane	99		101		70-130	2		30
Tetrachloroethene	108		100		70-130	8		30
Chlorobenzene	100		97		70-130	3		30
Trichlorofluoromethane	141	Q	122		70-139	14		30
1,2-Dichloroethane	107		105		70-130	2		30
1,1,1-Trichloroethane	107		97		70-130	10		30
Bromodichloromethane	97		94		70-130	3		30
trans-1,3-Dichloropropene	93		92		70-130	1		30
cis-1,3-Dichloropropene	89		88		70-130	1		30
1,1-Dichloropropene	93		86		70-130	8		30
Bromoform	93		94		70-130	1		30
1,1,2,2-Tetrachloroethane	90		92		70-130	2		30
Benzene	98		94		70-130	4		30
Toluene	101		95		70-130	6		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516325

**Project Number:** 21.0056730.40

**Report Date:** 07/16/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG803326-1 WG803326-2								
Ethylbenzene	98		93		70-130	5		30
Chloromethane	105		95		52-130	10		30
Bromomethane	124		114		57-147	8		30
Vinyl chloride	88		80		67-130	10		30
Chloroethane	108		99		50-151	9		30
1,1-Dichloroethene	102		91		65-135	11		30
trans-1,2-Dichloroethene	99		92		70-130	7		30
Trichloroethene	103		97		70-130	6		30
1,2-Dichlorobenzene	100		100		70-130	0		30
1,3-Dichlorobenzene	105		102		70-130	3		30
1,4-Dichlorobenzene	103		101		70-130	2		30
Methyl tert butyl ether	87		88		66-130	1		30
p/m-Xylene	103		98		70-130	5		30
o-Xylene	99		96		70-130	3		30
cis-1,2-Dichloroethene	95		91		70-130	4		30
Dibromomethane	96		96		70-130	0		30
Styrene	103		101		70-130	2		30
Dichlorodifluoromethane	119		104		30-146	13		30
Acetone	98		102		54-140	4		30
Carbon disulfide	86		76		59-130	12		30
2-Butanone	86		88		70-130	2		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516325

**Project Number:** 21.0056730.40

**Report Date:** 07/16/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG803326-1 WG803326-2								
Vinyl acetate	76		80		70-130	5		30
4-Methyl-2-pentanone	65	Q	71		70-130	9		30
1,2,3-Trichloropropane	91		93		68-130	2		30
2-Hexanone	58	Q	64	Q	70-130	10		30
Bromochloromethane	109		104		70-130	5		30
2,2-Dichloropropane	102		93		70-130	9		30
1,2-Dibromoethane	95		96		70-130	1		30
1,3-Dichloropropane	94		94		69-130	0		30
1,1,1,2-Tetrachloroethane	104		102		70-130	2		30
Bromobenzene	97		95		70-130	2		30
n-Butylbenzene	105		98		70-130	7		30
sec-Butylbenzene	98		92		70-130	6		30
tert-Butylbenzene	92		86		70-130	7		30
o-Chlorotoluene	101		96		70-130	5		30
p-Chlorotoluene	95		91		70-130	4		30
1,2-Dibromo-3-chloropropane	72		78		68-130	8		30
Hexachlorobutadiene	100		93		67-130	7		30
Isopropylbenzene	91		85		70-130	7		30
p-Isopropyltoluene	99		93		70-130	6		30
Naphthalene	78		83		70-130	6		30
Acrylonitrile	92		98		70-130	6		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516325

**Project Number:** 21.0056730.40

**Report Date:** 07/16/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG803326-1 WG803326-2								
Diisopropyl Ether	89		88		66-130	1		30
Tert-Butyl Alcohol	70		76		70-130	8		30
n-Propylbenzene	96		90		70-130	6		30
1,2,3-Trichlorobenzene	93		95		70-130	2		30
1,2,4-Trichlorobenzene	92		93		70-130	1		30
1,3,5-Trimethylbenzene	98		93		70-130	5		30
1,2,4-Trimethylbenzene	96		93		70-130	3		30
Methyl Acetate	92		95		51-146	3		30
Ethyl Acetate	84		88		70-130	5		30
Acrolein	61	Q	62	Q	70-130	2		30
Cyclohexane	100		90		59-142	11		30
1,4-Dioxane	86		91		65-136	6		30
Freon-113	118		102		50-139	15		30
p-Diethylbenzene	97		92		70-130	5		30
p-Ethyltoluene	99		93		70-130	6		30
1,2,4,5-Tetramethylbenzene	86		86		70-130	0		30
Tetrahydrofuran	75		87		66-130	15		30
Ethyl ether	95		96		67-130	1		30
trans-1,4-Dichloro-2-butene	92		95		70-130	3		30
Methyl cyclohexane	97		87		70-130	11		30
Ethyl-Tert-Butyl-Ether	86		87		70-130	1		30

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG803326-1 WG803326-2								
Tertiary-Amyl Methyl Ether	79		81		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	113		112		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	85		85		70-130
Dibromofluoromethane	109		108		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516325

**Project Number:** 21.0056730.40

**Report Date:** 07/16/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-07 Batch: WG803351-1 WG803351-2								
Methylene chloride	90		88		70-130	2		30
1,1-Dichloroethane	94		92		70-130	2		30
Chloroform	96		94		70-130	2		30
Carbon tetrachloride	102		99		70-130	3		30
1,2-Dichloropropane	93		93		70-130	0		30
Dibromochloromethane	99		98		70-130	1		30
2-Chloroethylvinyl ether	92		93		70-130	1		30
1,1,2-Trichloroethane	98		97		70-130	1		30
Tetrachloroethene	109		105		70-130	4		30
Chlorobenzene	101		100		70-130	1		30
Trichlorofluoromethane	116		112		70-139	4		30
1,2-Dichloroethane	90		89		70-130	1		30
1,1,1-Trichloroethane	100		97		70-130	3		30
Bromodichloromethane	92		92		70-130	0		30
trans-1,3-Dichloropropene	95		94		70-130	1		30
cis-1,3-Dichloropropene	93		91		70-130	2		30
1,1-Dichloropropene	101		97		70-130	4		30
Bromoform	102		102		70-130	0		30
1,1,2,2-Tetrachloroethane	97		98		70-130	1		30
Benzene	94		92		70-130	2		30
Toluene	100		97		70-130	3		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516325

**Project Number:** 21.0056730.40

**Report Date:** 07/16/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-07 Batch: WG803351-1 WG803351-2								
Ethylbenzene	103		99		70-130	4		30
Chloromethane	77		76		52-130	1		30
Bromomethane	122		119		57-147	2		30
Vinyl chloride	88		84		67-130	5		30
Chloroethane	103		99		50-151	4		30
1,1-Dichloroethene	108		101		65-135	7		30
trans-1,2-Dichloroethene	97		93		70-130	4		30
Trichloroethene	99		97		70-130	2		30
1,2-Dichlorobenzene	102		102		70-130	0		30
1,3-Dichlorobenzene	105		103		70-130	2		30
1,4-Dichlorobenzene	105		102		70-130	3		30
Methyl tert butyl ether	91		90		66-130	1		30
p/m-Xylene	104		101		70-130	3		30
o-Xylene	102		100		70-130	2		30
cis-1,2-Dichloroethene	97		95		70-130	2		30
Dibromomethane	95		94		70-130	1		30
Styrene	103		100		70-130	3		30
Dichlorodifluoromethane	96		91		30-146	5		30
Acetone	86		86		54-140	0		30
Carbon disulfide	100		97		59-130	3		30
2-Butanone	87		87		70-130	0		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516325

**Project Number:** 21.0056730.40

**Report Date:** 07/16/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-07 Batch: WG803351-1 WG803351-2								
Vinyl acetate	86		84		70-130	2		30
4-Methyl-2-pentanone	92		91		70-130	1		30
1,2,3-Trichloropropane	98		98		68-130	0		30
2-Hexanone	79		78		70-130	1		30
Bromochloromethane	102		99		70-130	3		30
2,2-Dichloropropane	96		90		70-130	6		30
1,2-Dibromoethane	98		99		70-130	1		30
1,3-Dichloropropane	98		96		69-130	2		30
1,1,1,2-Tetrachloroethane	102		99		70-130	3		30
Bromobenzene	102		102		70-130	0		30
n-Butylbenzene	108		106		70-130	2		30
sec-Butylbenzene	107		104		70-130	3		30
tert-Butylbenzene	106		103		70-130	3		30
o-Chlorotoluene	101		99		70-130	2		30
p-Chlorotoluene	103		102		70-130	1		30
1,2-Dibromo-3-chloropropane	100		102		68-130	2		30
Hexachlorobutadiene	110		108		67-130	2		30
Isopropylbenzene	104		101		70-130	3		30
p-Isopropyltoluene	107		104		70-130	3		30
Naphthalene	96		95		70-130	1		30
Acrylonitrile	92		92		70-130	0		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516325

**Project Number:** 21.0056730.40

**Report Date:** 07/16/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-07 Batch: WG803351-1 WG803351-2								
Diisopropyl Ether	87		85		66-130	2		30
Tert-Butyl Alcohol	91		89		70-130	2		30
n-Propylbenzene	104		102		70-130	2		30
1,2,3-Trichlorobenzene	102		101		70-130	1		30
1,2,4-Trichlorobenzene	107		104		70-130	3		30
1,3,5-Trimethylbenzene	105		103		70-130	2		30
1,2,4-Trimethylbenzene	102		101		70-130	1		30
Methyl Acetate	81		82		51-146	1		30
Ethyl Acetate	75		78		70-130	4		30
Acrolein	90		85		70-130	6		30
Cyclohexane	106		99		59-142	7		30
1,4-Dioxane	94		99		65-136	5		30
Freon-113	109		104		50-139	5		30
p-Diethylbenzene	103		100		70-130	3		30
p-Ethyltoluene	101		99		70-130	2		30
1,2,4,5-Tetramethylbenzene	99		97		70-130	2		30
Tetrahydrofuran	79		85		66-130	7		30
Ethyl ether	98		95		67-130	3		30
trans-1,4-Dichloro-2-butene	89		89		70-130	0		30
Methyl cyclohexane	109		103		70-130	6		30
Ethyl-Tert-Butyl-Ether	90		88		70-130	2		30

### Lab Control Sample Analysis

#### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516325

**Project Number:** 21.0056730.40

**Report Date:** 07/16/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-07 Batch: WG803351-1 WG803351-2								
Tertiary-Amyl Methyl Ether	91		90		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		95		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	94		94		70-130
Dibromofluoromethane	100		99		70-130

## Matrix Spike Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516325

**Project Number:** 21.0056730.40

**Report Date:** 07/16/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG803326-4 WG803326-5 QC Sample: L1516325-01 Client ID: MW-7-7-9-71515												
Methylene chloride	ND	71.3	58	81		54	76		70-130	6		30
1,1-Dichloroethane	ND	71.3	58	82		54	75		70-130	8		30
Chloroform	ND	71.3	60	84		55	76		70-130	10		30
Carbon tetrachloride	ND	71.3	53	74		47	66	Q	70-130	12		30
1,2-Dichloropropane	ND	71.3	56	78		51	71		70-130	10		30
Dibromochloromethane	ND	71.3	52	72		46	65	Q	70-130	11		30
2-Chloroethylvinyl ether	ND	71.3	52J	73		46J	65	Q	70-130	12		30
1,1,2-Trichloroethane	ND	71.3	460	645	Q	450	627	Q	70-130	3		30
Tetrachloroethene	ND	71.3	50	71		44	62	Q	70-130	14		30
Chlorobenzene	ND	71.3	53	74		46	65	Q	70-130	14		30
Trichlorofluoromethane	ND	71.3	55	78		50	70		70-139	11		30
1,2-Dichloroethane	ND	71.3	57	80		52	73		70-130	9		30
1,1,1-Trichloroethane	ND	71.3	57	80		51	72		70-130	11		30
Bromodichloromethane	ND	71.3	54	75		48	67	Q	70-130	11		30
trans-1,3-Dichloropropene	ND	71.3	50	70		44	62	Q	70-130	13		30
cis-1,3-Dichloropropene	ND	71.3	52	72		46	64	Q	70-130	12		30
1,1-Dichloropropene	ND	71.3	52	73		47	66	Q	70-130	10		30
Bromoform	ND	71.3	48	67	Q	42	59	Q	70-130	12		30
1,1,2,2-Tetrachloroethane	ND	71.3	91	128		64	89		70-130	36	Q	30
Benzene	ND	71.3	57	80		53	74		70-130	8		30
Toluene	ND	71.3	54	76		49	68	Q	70-130	11		30

## Matrix Spike Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516325

**Project Number:** 21.0056730.40

**Report Date:** 07/16/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG803326-4 WG803326-5 QC Sample: L1516325-01 Client ID: MW-7-7-9-71515												
Ethylbenzene	ND	71.3	47	66	Q	41	57	Q	70-130	15		30
Chloromethane	ND	71.3	47	66		42	59		52-130	11		30
Bromomethane	ND	71.3	66	92		58	81		57-147	12		30
Vinyl chloride	ND	71.3	45	63	Q	46	64	Q	67-130	2		30
Chloroethane	ND	71.3	56	79		53	74		50-151	7		30
1,1-Dichloroethene	ND	71.3	56	78		52	73		65-135	7		30
trans-1,2-Dichloroethene	ND	71.3	59	82		53	74		70-130	10		30
Trichloroethene	ND	71.3	58	81		52	74		70-130	10		30
1,2-Dichlorobenzene	ND	71.3	39	54	Q	32	45	Q	70-130	19		30
1,3-Dichlorobenzene	ND	71.3	40	56	Q	32	45	Q	70-130	20		30
1,4-Dichlorobenzene	ND	71.3	40	56	Q	33	46	Q	70-130	21		30
Methyl tert butyl ether	ND	71.3	54	75		51	72		66-130	5		30
p/m-Xylene	ND	143	96	68	Q	83	58	Q	70-130	15		30
o-Xylene	ND	143	98	69	Q	84	58	Q	70-130	16		30
cis-1,2-Dichloroethene	ND	71.3	60	84		56	78		70-130	7		30
Dibromomethane	ND	71.3	56	79		52	72		70-130	9		30
Styrene	ND	143	96	67	Q	81	57	Q	70-130	17		30
Dichlorodifluoromethane	ND	71.3	37	52		34.J	48		30-146	8		30
Acetone	86	71.3	210	172	Q	270	258	Q	54-140	25		30
Carbon disulfide	ND	71.3	48	67		40	56	Q	59-130	17		30
2-Butanone	19.J	71.3	95	134	Q	110	151	Q	70-130	12		30

## Matrix Spike Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516325

**Project Number:** 21.0056730.40

**Report Date:** 07/16/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG803326-4 WG803326-5 QC Sample: L1516325-01 Client ID: MW-7-7-9-71515												
Vinyl acetate	ND	71.3	38	54	Q	27.J	37	Q	70-130	35	Q	30
4-Methyl-2-pentanone	ND	71.3	66	93		60	84		70-130	9		30
1,2,3-Trichloropropane	ND	71.3	49	69		45	64	Q	68-130	8		30
2-Hexanone	ND	71.3	63	89		63	88		70-130	1		30
Bromochloromethane	ND	71.3	65	91		60	84		70-130	8		30
2,2-Dichloropropane	ND	71.3	56	79		51	71		70-130	10		30
1,2-Dibromoethane	ND	71.3	57	79		51	72		70-130	10		30
1,3-Dichloropropane	ND	71.3	54	76		50	70		69-130	9		30
1,1,1,2-Tetrachloroethane	ND	71.3	51	72		45	63	Q	70-130	13		30
Bromobenzene	ND	71.3	46	65	Q	41	57	Q	70-130	13		30
n-Butylbenzene	56	71.3	160	143	Q	170	156	Q	70-130	6		30
sec-Butylbenzene	76	71.3	250	242	Q	230	220	Q	70-130	7		30
tert-Butylbenzene	2.8J	71.3	42	59	Q	35	49	Q	70-130	18		30
o-Chlorotoluene	ND	71.3	40	56	Q	33	46	Q	70-130	20		30
p-Chlorotoluene	ND	71.3	40	56	Q	34	47	Q	70-130	17		30
1,2-Dibromo-3-chloropropane	ND	71.3	94	132	Q	68	95		68-130	32	Q	30
Hexachlorobutadiene	ND	71.3	19	26	Q	14.J	19	Q	67-130	30		30
Isopropylbenzene	21	71.3	98	107		94	103		70-130	4		30
p-Isopropyltoluene	ND	71.3	34	47	Q	26	37	Q	70-130	24		30
Naphthalene	ND	71.3	130	181	Q	110	151	Q	70-130	18		30
Acrylonitrile	ND	71.3	56	79		52	72		70-130	9		30

## Matrix Spike Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516325

**Project Number:** 21.0056730.40

**Report Date:** 07/16/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG803326-4 WG803326-5 QC Sample: L1516325-01 Client ID: MW-7-7-9-71515												
Diisopropyl Ether	ND	71.3	51	71		47	66		66-130	8		30
Tert-Butyl Alcohol	ND	357	230	64	Q	240	68	Q	70-130	5		30
n-Propylbenzene	14	71.3	69	78		72	82		70-130	4		30
1,2,3-Trichlorobenzene	ND	71.3	69	96		51	72		70-130	30		30
1,2,4-Trichlorobenzene	ND	71.3	24	34	Q	21	29	Q	70-130	17		30
1,3,5-Trimethylbenzene	ND	71.3	37	52	Q	30	43	Q	70-130	20		30
1,2,4-Trimethylbenzene	ND	71.3	39	54	Q	32	45	Q	70-130	19		30
Methyl Acetate	ND	71.3	54J	76		53.J	74		51-146	3		30
Ethyl Acetate	ND	71.3	54J	75		56.J	78		70-130	4		30
Cyclohexane	ND	71.3	39J	55	Q	33.J	46	Q	59-142	16		30
1,4-Dioxane	ND	3570	3400	95		3500	98		65-136	2		30
Freon-113	ND	71.3	50J	70		44.J	61		50-139	14		30
p-Diethylbenzene	53	71.3	170	164	Q	150	142	Q	70-130	10		30
p-Ethyltoluene	ND	71.3	40	56	Q	33	46	Q	70-130	18		30
1,2,4,5-Tetramethylbenzene	200	71.3	500	422	Q	450	345	Q	70-130	12		30
Tetrahydrofuran	ND	71.3	52J	72		50.J	70		66-130	3		30
Ethyl ether	ND	71.3	59	82		54	75		67-130	9		30
trans-1,4-Dichloro-2-butene	ND	71.3	55	77		42	59	Q	70-130	26		30
Methyl cyclohexane	4.5J	71.3	50	70		45	63	Q	70-130	10		30
Ethyl-Tert-Butyl-Ether	ND	71.3	51	71		49	68	Q	70-130	4		30
Tertiary-Amyl Methyl Ether	ND	71.3	49	69	Q	47	66	Q	70-130	5		30

## Matrix Spike Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516325

**Project Number:** 21.0056730.40

**Report Date:** 07/16/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>MS Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>MSD Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>RPD Qual</i>	<i>RPD Limits</i>
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Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG803326-4 WG803326-5 QC Sample: L1516325-01 Client ID: MW-7-7-9-71515

<i>Surrogate</i>	<i>MS</i>		<i>MSD</i>		<i>Acceptance Criteria</i>
	<i>% Recovery</i>	<i>Qualifier</i>	<i>% Recovery</i>	<i>Qualifier</i>	
1,2-Dichloroethane-d4	100		96		70-130
4-Bromofluorobenzene	129		121		70-130
Dibromofluoromethane	104		102		70-130
Toluene-d8	107		105		70-130

# SEMIVOLATILES

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**SAMPLE RESULTS**

Lab ID: L1516325-01  
 Client ID: MW-7-7-9-71515  
 Sample Location: 140 CORTLAND AVE. SYRACUSE, NY 13202  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/16/15 11:38  
 Analyst: PS  
 Percent Solids: 70%

Date Collected: 07/15/15 09:30  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/16/15 02:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	48	J	ug/kg	190	48.	1
1,2,4-Trichlorobenzene	ND		ug/kg	230	76.	1
Hexachlorobenzene	ND		ug/kg	140	44.	1
Bis(2-chloroethyl)ether	ND		ug/kg	210	66.	1
2-Chloronaphthalene	ND		ug/kg	230	76.	1
1,2-Dichlorobenzene	ND		ug/kg	230	77.	1
1,3-Dichlorobenzene	ND		ug/kg	230	74.	1
1,4-Dichlorobenzene	ND		ug/kg	230	71.	1
3,3'-Dichlorobenzidine	ND		ug/kg	230	62.	1
2,4-Dinitrotoluene	ND		ug/kg	230	50.	1
2,6-Dinitrotoluene	ND		ug/kg	230	60.	1
Fluoranthene	320		ug/kg	140	43.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	230	71.	1
4-Bromophenyl phenyl ether	ND		ug/kg	230	54.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	280	82.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	250	71.	1
Hexachlorobutadiene	ND		ug/kg	230	66.	1
Hexachlorocyclopentadiene	ND		ug/kg	670	150	1
Hexachloroethane	ND		ug/kg	190	42.	1
Isophorone	ND		ug/kg	210	62.	1
Naphthalene	240		ug/kg	230	78.	1
Nitrobenzene	ND		ug/kg	210	56.	1
NDPA/DPA	ND		ug/kg	190	49.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	230	70.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	230	61.	1
Butyl benzyl phthalate	ND		ug/kg	230	46.	1
Di-n-butylphthalate	ND		ug/kg	230	45.	1
Di-n-octylphthalate	ND		ug/kg	230	57.	1
Diethyl phthalate	ND		ug/kg	230	49.	1
Dimethyl phthalate	ND		ug/kg	230	59.	1

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**SAMPLE RESULTS**

**Lab ID:** L1516325-01  
**Client ID:** MW-7-7-9-71515  
**Sample Location:** 140 CORTLAND AVE. SYRACUSE, NY 13202

**Date Collected:** 07/15/15 09:30  
**Date Received:** 07/15/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Benzo(a)anthracene	170		ug/kg	140	46.	1
Benzo(a)pyrene	190		ug/kg	190	57.	1
Benzo(b)fluoranthene	160		ug/kg	140	47.	1
Benzo(k)fluoranthene	160		ug/kg	140	44.	1
Chrysene	170		ug/kg	140	46.	1
Acenaphthylene	ND		ug/kg	190	44.	1
Anthracene	78	J	ug/kg	140	39.	1
Benzo(ghi)perylene	110	J	ug/kg	190	48.	1
Fluorene	80	J	ug/kg	230	67.	1
Phenanthrene	290		ug/kg	140	46.	1
Dibenzo(a,h)anthracene	ND		ug/kg	140	45.	1
Indeno(1,2,3-cd)pyrene	100	J	ug/kg	190	52.	1
Pyrene	290		ug/kg	140	45.	1
Biphenyl	ND		ug/kg	530	77.	1
4-Chloroaniline	ND		ug/kg	230	62.	1
2-Nitroaniline	ND		ug/kg	230	66.	1
3-Nitroaniline	ND		ug/kg	230	64.	1
4-Nitroaniline	ND		ug/kg	230	63.	1
Dibenzofuran	ND		ug/kg	230	78.	1
2-Methylnaphthalene	220	J	ug/kg	280	75.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	230	72.	1
Acetophenone	ND		ug/kg	230	72.	1
Benzyl Alcohol	ND		ug/kg	230	72.	1
Carbazole	ND		ug/kg	230	50.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	82		30-120
4-Terphenyl-d14	87		18-120

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 07/16/15 09:31  
**Analyst:** PS

**Extraction Method:** EPA 3546  
**Extraction Date:** 07/16/15 02:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG803175-1					
Acenaphthene	ND		ug/kg	130	33.
1,2,4-Trichlorobenzene	ND		ug/kg	160	53.
Hexachlorobenzene	ND		ug/kg	97	30.
Bis(2-chloroethyl)ether	ND		ug/kg	140	45.
2-Chloronaphthalene	ND		ug/kg	160	53.
1,2-Dichlorobenzene	ND		ug/kg	160	53.
1,3-Dichlorobenzene	ND		ug/kg	160	51.
1,4-Dichlorobenzene	ND		ug/kg	160	49.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	35.
2,6-Dinitrotoluene	ND		ug/kg	160	41.
Fluoranthene	ND		ug/kg	97	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	49.
4-Bromophenyl phenyl ether	ND		ug/kg	160	37.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	57.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	49.
Hexachlorobutadiene	ND		ug/kg	160	46.
Hexachlorocyclopentadiene	ND		ug/kg	460	100
Hexachloroethane	ND		ug/kg	130	29.
Isophorone	ND		ug/kg	140	43.
Naphthalene	ND		ug/kg	160	54.
Nitrobenzene	ND		ug/kg	140	38.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	34.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	48.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	42.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	40.
Diethyl phthalate	ND		ug/kg	160	34.

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 07/16/15 09:31  
**Analyst:** PS

**Extraction Method:** EPA 3546  
**Extraction Date:** 07/16/15 02:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG803175-1					
Dimethyl phthalate	ND		ug/kg	160	41.
Benzo(a)anthracene	ND		ug/kg	97	32.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	33.
Benzo(k)fluoranthene	ND		ug/kg	97	31.
Chrysene	ND		ug/kg	97	32.
Acenaphthylene	ND		ug/kg	130	30.
Anthracene	ND		ug/kg	97	27.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	46.
Phenanthrene	ND		ug/kg	97	32.
Dibenzo(a,h)anthracene	ND		ug/kg	97	31.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	36.
Pyrene	ND		ug/kg	97	32.
Biphenyl	ND		ug/kg	370	53.
4-Chloroaniline	ND		ug/kg	160	43.
2-Nitroaniline	ND		ug/kg	160	46.
3-Nitroaniline	ND		ug/kg	160	45.
4-Nitroaniline	ND		ug/kg	160	44.
Dibenzofuran	ND		ug/kg	160	54.
2-Methylnaphthalene	ND		ug/kg	190	52.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	50.
Acetophenone	ND		ug/kg	160	50.
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	35.

**Project Name:** COYNE TEXTILE SERVICES-MW INST**Lab Number:** L1516325**Project Number:** 21.0056730.40**Report Date:** 07/16/15**Method Blank Analysis  
Batch Quality Control**Analytical Method: 1,8270D  
Analytical Date: 07/16/15 09:31  
Analyst: PSExtraction Method: EPA 3546  
Extraction Date: 07/16/15 02:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG803175-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	77		30-120
4-Terphenyl-d14	100		18-120

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516325

**Project Number:** 21.0056730.40

**Report Date:** 07/16/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG803175-2 WG803175-3								
Acenaphthene	80		91		31-137	13		50
1,2,4-Trichlorobenzene	77		86		38-107	11		50
Hexachlorobenzene	101		86		40-140	16		50
Bis(2-chloroethyl)ether	77		87		40-140	12		50
2-Chloronaphthalene	70		88		40-140	23		50
1,2-Dichlorobenzene	74		83		40-140	11		50
1,3-Dichlorobenzene	74		82		40-140	10		50
1,4-Dichlorobenzene	73		81		28-104	10		50
3,3'-Dichlorobenzidine	65		66		40-140	2		50
2,4-Dinitrotoluene	90	Q	93	Q	28-89	3		50
2,6-Dinitrotoluene	84		104		40-140	21		50
Fluoranthene	91		99		40-140	8		50
4-Chlorophenyl phenyl ether	97		82		40-140	17		50
4-Bromophenyl phenyl ether	99		83		40-140	18		50
Bis(2-chloroisopropyl)ether	72		80		40-140	11		50
Bis(2-chloroethoxy)methane	78		92		40-117	16		50
Hexachlorobutadiene	73		81		40-140	10		50
Hexachlorocyclopentadiene	89		93		40-140	4		50
Hexachloroethane	73		81		40-140	10		50
Isophorone	78		91		40-140	15		50
Naphthalene	78		89		40-140	13		50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516325

**Project Number:** 21.0056730.40

**Report Date:** 07/16/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG803175-2 WG803175-3								
Nitrobenzene	89		100		40-140	12		50
NitrosoDiPhenylAmine(NDPA)/DPA	107		90		36-157	17		50
n-Nitrosodi-n-propylamine	79		90		32-121	13		50
Bis(2-Ethylhexyl)phthalate	98		108		40-140	10		50
Butyl benzyl phthalate	99		111		40-140	11		50
Di-n-butylphthalate	97		106		40-140	9		50
Di-n-octylphthalate	83		97		40-140	16		50
Diethyl phthalate	102		87		40-140	16		50
Dimethyl phthalate	85		95		40-140	11		50
Benzo(a)anthracene	94		101		40-140	7		50
Benzo(a)pyrene	95		103		40-140	8		50
Benzo(b)fluoranthene	90		94		40-140	4		50
Benzo(k)fluoranthene	91		92		40-140	1		50
Chrysene	90		95		40-140	5		50
Acenaphthylene	74		94		40-140	24		50
Anthracene	89		96		40-140	8		50
Benzo(ghi)perylene	92		100		40-140	8		50
Fluorene	98		85		40-140	14		50
Phenanthrene	83		90		40-140	8		50
Dibenzo(a,h)anthracene	91		99		40-140	8		50
Indeno(1,2,3-cd)Pyrene	94		102		40-140	8		50

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG803175-2 WG803175-3								
Pyrene	90		97		35-142	7		50
Biphenyl	81		92		54-104	13		50
4-Chloroaniline	56		58		40-140	4		50
2-Nitroaniline	78		98		47-134	23		50
3-Nitroaniline	76		82		26-129	8		50
4-Nitroaniline	110		93		41-125	17		50
Dibenzofuran	83		84		40-140	1		50
2-Methylnaphthalene	77		90		40-140	16		50
1,2,4,5-Tetrachlorobenzene	90		90		40-117	0		50
Acetophenone	83		94		14-144	12		50
Benzyl Alcohol	82		93		40-140	13		50
Carbazole	91		99		54-128	8		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	92		105		23-120
2-Fluorobiphenyl	76		91		30-120
4-Terphenyl-d14	90		98		18-120



## Matrix Spike Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516325

**Project Number:** 21.0056730.40

**Report Date:** 07/16/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Semivolatiles Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG803175-4 WG803175-5 QC Sample: L1516325-01 Client ID: MW-7-7-9-71515												
Acenaphthene	48.J	1860	1700	92		1800	97		31-137	6		50
1,2,4-Trichlorobenzene	ND	1860	1600	86		1500	81		38-107	6		50
Hexachlorobenzene	ND	1860	1600	86		1700	92		40-140	6		50
Bis(2-chloroethyl)ether	ND	1860	1600	86		1500	81		40-140	6		50
2-Chloronaphthalene	ND	1860	1600	86		1600	87		40-140	0		50
1,2-Dichlorobenzene	ND	1860	1500	81		1500	81		40-140	0		50
1,3-Dichlorobenzene	ND	1860	1500	81		1500	81		40-140	0		50
1,4-Dichlorobenzene	ND	1860	1500	81		1500	81		28-104	0		50
3,3'-Dichlorobenzidine	ND	1860	1400	75		1400	76		40-140	0		50
2,4-Dinitrotoluene	ND	1860	1800	97	Q	1700	92	Q	28-89	6		50
2,6-Dinitrotoluene	ND	1860	1800	97		1800	97		40-140	0		50
Fluoranthene	320	1860	2200	100		2600	120		40-140	17		50
4-Chlorophenyl phenyl ether	ND	1860	1600	86		1600	87		40-140	0		50
4-Bromophenyl phenyl ether	ND	1860	1600	86		1700	92		40-140	6		50
Bis(2-chloroisopropyl)ether	ND	1860	1400	75		1400	76		40-140	0		50
Bis(2-chloroethoxy)methane	ND	1860	1700	92		1600	87		40-117	6		50
Hexachlorobutadiene	ND	1860	1400	75		1500	81		40-140	7		50
Hexachlorocyclopentadiene	ND	1860	1400	75		1300	70		40-140	7		50
Hexachloroethane	ND	1860	1400	75		1500	81		40-140	7		50
Isophorone	ND	1860	1600	86		1600	87		40-140	0		50
Naphthalene	240	1860	2000	95		2100	100		40-140	5		50

## Matrix Spike Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516325

**Project Number:** 21.0056730.40

**Report Date:** 07/16/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Semivolatiles Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG803175-4 WG803175-5 QC Sample: L1516325-01 Client ID: MW-7-7-9-71515												
Nitrobenzene	ND	1860	1800	97		1800	97		40-140	0		50
NitrosoDiPhenylAmine(NDPA)/DPA	ND	1860	1800	97		1900	100		36-157	5		50
n-Nitrosodi-n-propylamine	ND	1860	1600	86		1600	87		32-121	0		50
Bis(2-Ethylhexyl)phthalate	ND	1860	2100	110		2000	110		40-140	5		50
Butyl benzyl phthalate	ND	1860	2100	110		1900	100		40-140	10		50
Di-n-butylphthalate	ND	1860	2000	110		1900	100		40-140	5		50
Di-n-octylphthalate	ND	1860	1900	100		1800	97		40-140	5		50
Diethyl phthalate	ND	1860	1700	92		1600	87		40-140	6		50
Dimethyl phthalate	ND	1860	1700	92		1600	87		40-140	6		50
Benzo(a)anthracene	170	1860	2000	99		2100	100		40-140	5		50
Benzo(a)pyrene	190	1860	2000	110		2100	110		40-140	5		50
Benzo(b)fluoranthene	160	1860	1900	94		2000	100		40-140	5		50
Benzo(k)fluoranthene	160	1860	1900	94		1900	94		40-140	0		50
Chrysene	170	1860	1900	93		2000	99		40-140	5		50
Acenaphthylene	ND	1860	1700	92		1700	92		40-140	0		50
Anthracene	78.J	1860	1800	97		1800	97		40-140	0		50
Benzo(ghi)perylene	110J	1860	1700	92		1900	100		40-140	11		50
Fluorene	80.J	1860	1800	97		1800	97		40-140	0		50
Phenanthrene	290	1860	2000	92		2400	110		40-140	18		50
Dibenzo(a,h)anthracene	ND	1860	1800	97		1800	97		40-140	0		50
Indeno(1,2,3-cd)Pyrene	100J	1860	1900	100		2000	110		40-140	5		50

## Matrix Spike Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG803175-4 WG803175-5 QC Sample: L1516325-01 Client ID: MW-7-7-9-71515												
Pyrene	290	1860	2100	97		2400	110		35-142	13		50
Biphenyl	ND	1860	1700	92		1600	87		54-104	6		50
4-Chloroaniline	ND	1860	1000	54		1200	65		40-140	18		50
2-Nitroaniline	ND	1860	1800	97		1800	97		47-134	0		50
3-Nitroaniline	ND	1860	1400	75		1500	81		26-129	7		50
4-Nitroaniline	ND	1860	1700	92		1700	92		41-125	0		50
Dibenzofuran	ND	1860	1700	92		1700	92		40-140	0		50
2-Methylnaphthalene	220J	1860	1900	100		2300	120		40-140	19		50
1,2,4,5-Tetrachlorobenzene	ND	1860	1600	86		1600	87		40-117	0		50
Acetophenone	ND	1860	1700	92		1700	92		14-144	0		50
Benzyl Alcohol	ND	1860	1700	92		1600	87		40-140	6		50
Carbazole	ND	1860	1800	97		1800	97		54-128	0		50

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>
2-Fluorobiphenyl	84		83		30-120
4-Terphenyl-d14	87		84		18-120
Nitrobenzene-d5	100		101		23-120

# **INORGANICS & MISCELLANEOUS**

Project Name: COYNE TEXTILE SERVICES-MW INST

Lab Number: L1516325

Project Number: 21.0056730.40

Report Date: 07/16/15

**SAMPLE RESULTS**

Lab ID: L1516325-01

Date Collected: 07/15/15 09:30

Client ID: MW-7-7-9-71515

Date Received: 07/15/15

Sample Location: 140 CORTLAND AVE. SYRACUSE, NY

Field Prep: Not Specified

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	70.1		%	0.100	NA	1	-	07/16/15 02:36	30,2540G	RT



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**SAMPLE RESULTS**

**Lab ID:** L1516325-02  
**Client ID:** MW-7-19-21-71515  
**Sample Location:** 140 CORTLAND AVE. SYRACUSE, NY  
**Matrix:** Soil

**Date Collected:** 07/15/15 10:00  
**Date Received:** 07/15/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.0		%	0.100	NA	1	-	07/16/15 02:36	30,2540G	RT



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**SAMPLE RESULTS**

**Lab ID:** L1516325-03  
**Client ID:** MW-7-21-23-71515  
**Sample Location:** 140 CORTLAND AVE. SYRACUSE, NY  
**Matrix:** Soil

**Date Collected:** 07/15/15 10:05  
**Date Received:** 07/15/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.0		%	0.100	NA	1	-	07/16/15 02:36	30,2540G	RT



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**SAMPLE RESULTS**

**Lab ID:** L1516325-04  
**Client ID:** MW-7-29-31-71515  
**Sample Location:** 140 CORTLAND AVE. SYRACUSE, NY  
**Matrix:** Soil

**Date Collected:** 07/15/15 11:10  
**Date Received:** 07/15/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.3		%	0.100	NA	1	-	07/16/15 02:36	30,2540G	RT



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**SAMPLE RESULTS**

**Lab ID:** L1516325-05  
**Client ID:** MW-7-41-43-71515  
**Sample Location:** 140 CORTLAND AVE. SYRACUSE, NY  
**Matrix:** Soil

**Date Collected:** 07/15/15 13:15  
**Date Received:** 07/15/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.3		%	0.100	NA	1	-	07/16/15 02:36	30,2540G	RT



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**SAMPLE RESULTS**

**Lab ID:** L1516325-06  
**Client ID:** MW-7-51-53-71515  
**Sample Location:** 140 CORTLAND AVE. SYRACUSE, NY  
**Matrix:** Soil

**Date Collected:** 07/15/15 14:00  
**Date Received:** 07/15/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.2		%	0.100	NA	1	-	07/16/15 02:36	30,2540G	RT



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

**SAMPLE RESULTS**

**Lab ID:** L1516325-07  
**Client ID:** FIELD DUPLICATE-001-71515  
**Sample Location:** 140 CORTLAND AVE. SYRACUSE, NY  
**Matrix:** Soil

**Date Collected:** 07/15/15 00:00  
**Date Received:** 07/15/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.2		%	0.100	NA	1	-	07/16/15 02:36	30,2540G	RT



**Lab Duplicate Analysis**  
Batch Quality Control

Project Name: COYNE TEXTILE SERVICES-MW INST

Project Number: 21.0056730.40

Lab Number: L1516325

Report Date: 07/16/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG803174-1 QC Sample: L1516175-01 Client ID: DUP Sample						
Solids, Total	70.2	70.4	%	0		20

**Project Name:** COYNE TEXTILE SERVICES-MW INST**Lab Number:** L1516325**Project Number:** 21.0056730.40**Report Date:** 07/16/15**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

**Cooler Information Custody Seal****Cooler**

A Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1516325-01A	Glass 60mL/2oz unpreserved	A	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1516325-01A1	Glass 60mL/2oz unpreserved	A	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1516325-01B	Glass 120ml/4oz unpreserved	A	N/A	3.6	Y	Absent	NYTCL-8270(14),TS(7)
L1516325-01B1	Glass 120ml/4oz unpreserved	A	N/A	3.6	Y	Absent	NYTCL-8270(14),TS(7)
L1516325-02A	Glass 60mL/2oz unpreserved	A	N/A	3.6	Y	Absent	TS(7),NYTCL-8260(14)
L1516325-03A	Glass 60mL/2oz unpreserved	A	N/A	3.6	Y	Absent	TS(7),NYTCL-8260(14)
L1516325-04A	Glass 60mL/2oz unpreserved	A	N/A	3.6	Y	Absent	TS(7),NYTCL-8260(14)
L1516325-05A	Glass 60mL/2oz unpreserved	A	N/A	3.6	Y	Absent	TS(7),NYTCL-8260(14)
L1516325-06A	Glass 60mL/2oz unpreserved	A	N/A	3.6	Y	Absent	TS(7),NYTCL-8260(14)
L1516325-07A	Glass 60mL/2oz unpreserved	A	N/A	3.6	Y	Absent	TS(7),NYTCL-8260(14)

\*Values in parentheses indicate holding time in days

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

## 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.
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).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

#### Data Qualifiers

- 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.

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516325  
**Report Date:** 07/16/15

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

## 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

Last revised December 16, 2014

**The following analytes are not included in our NELAP Scope of Accreditation:**

### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**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.

**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,Tl; **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,Tl,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.





## ANALYTICAL REPORT

Lab Number:	L1516651
Client:	The Palmerton Group 535 Washington Street 11th Floor Buffalo, NY 14203
ATTN:	Thomas Bohlen
Phone:	(716) 844-7050
Project Name:	COYNE TEXTILE SERVICES
Project Number:	21.0056730.40
Report Date:	07/24/15

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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).

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** COYNE TEXTILE SERVICES  
**Project Number:** 21.0056730.40

**Lab Number:** L1516651  
**Report Date:** 07/24/15

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1516651-01	MW-4-71715	WATER	140 CORTLAND AVE., SYRACUSE, NY 13212	07/17/15 15:45	07/17/15
L1516651-02	TRIP BLANK-005-71715		140 CORTLAND AVE., SYRACUSE, NY 13212	07/17/15 00:00	07/17/15

**Project Name:** COYNE TEXTILE SERVICES  
**Project Number:** 21.0056730.40

**Lab Number:** L1516651  
**Report Date:** 07/24/15

### 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 all of the requirements of NELAC, for all NELAC accredited parameters. 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.

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**Project Name:** COYNE TEXTILE SERVICES  
**Project Number:** 21.0056730.40

**Lab Number:** L1516651  
**Report Date:** 07/24/15

**Case Narrative (continued)**

Report Submission

The results of the Volatile Organics analysis have been issued under separate cover.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

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:



Michelle M. Morris

Title: Technical Director/Representative

Date: 07/24/15

# ORGANICS

# VOLATILES

**Project Name:** COYNE TEXTILE SERVICES**Lab Number:** L1516651**Project Number:** 21.0056730.40**Report Date:** 07/24/15**SAMPLE RESULTS**

**Lab ID:** L1516651-01  
**Client ID:** MW-4-71715  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, NY 13212  
**Matrix:** Water  
**Analytical Method:** 117,-  
**Analytical Date:** 07/23/15 09:54  
**Analyst:** MR

**Date Collected:** 07/17/15 15:45  
**Date Received:** 07/17/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	1260		ug/l	0.500	0.500	1	A
Ethene	14.9		ug/l	0.500	0.500	1	A
Ethane	104		ug/l	0.500	0.500	1	A

Project Name: COYNE TEXTILE SERVICES

Lab Number: L1516651

Project Number: 21.0056730.40

Report Date: 07/24/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 117,-  
 Analytical Date: 07/23/15 09:12  
 Analyst: MR

Parameter	Result	Qualifier	Units	RL	MDL	
Dissolved Gases by GC - Mansfield Lab for sample(s): 01 Batch: WG805357-4						
Methane	ND		ug/l	0.500	0.500	A
Ethene	ND		ug/l	0.500	0.500	A
Ethane	ND		ug/l	0.500	0.500	A

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES

**Project Number:** 21.0056730.40

**Lab Number:** L1516651

**Report Date:** 07/24/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>	<b>Column</b>
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01 Batch: WG805357-1									
Methane	85		-		80-120	-		25	A
Ethene	91		-		80-120	-		25	A
Ethane	90		-		80-120	-		25	A

## Matrix Spike Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES  
**Project Number:** 21.0056730.40

**Lab Number:** L1516651  
**Report Date:** 07/24/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>	<i>Column</i>
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG805357-6 WG805357-7 QC Sample: L1516897-02 Client ID: MS Sample													
Methane	47.7	54.6	110	114		110	114		80-120	0		25	A
Ethene	ND	95.5	104	109		101	106		80-120	3		25	A
Ethane	1.51	102	112	108		108	104		80-120	4		25	A

## Lab Duplicate Analysis

Batch Quality Control

Project Name: COYNE TEXTILE SERVICES

Project Number: 21.0056730.40

Lab Number: L1516651

Report Date: 07/24/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG805357-5 QC Sample: L1516897-03 Client ID: DUP Sample						
Methane	5700	5740	ug/l	1		25 A
Ethene	625	619	ug/l	1		25 A
Ethane	1080	1080	ug/l	0		25 A

## METALS

**Project Name:** COYNE TEXTILE SERVICES**Lab Number:** L1516651**Project Number:** 21.0056730.40**Report Date:** 07/24/15**SAMPLE RESULTS**

Lab ID: L1516651-01

Date Collected: 07/17/15 15:45

Client ID: MW-4-71715

Date Received: 07/17/15

Sample Location: 140 CORTLAND AVE., SYRACUSE, N

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Iron, Total	2.97		mg/l	0.050	0.012	1	07/18/15 11:11	07/20/15 13:49	EPA 3005A	1,6020A	BM
Manganese, Total	0.4500		mg/l	0.0010	0.0003	1	07/18/15 11:11	07/20/15 13:49	EPA 3005A	1,6020A	BM



Project Name: COYNE TEXTILE SERVICES

Lab Number: L1516651

Project Number: 21.0056730.40

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## Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG803965-1										
Iron, Total	0.046	J	mg/l	0.050	0.012	1	07/18/15 11:11	07/20/15 13:23	1,6020A	BM
Manganese, Total	0.0004	J	mg/l	0.0010	0.0003	1	07/18/15 11:11	07/20/15 13:23	1,6020A	BM

### Prep Information

Digestion Method: EPA 3005A

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES

**Lab Number:** L1516651

**Project Number:** 21.0056730.40

**Report Date:** 07/24/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG803965-2								
Iron, Total	103		-		80-120	-		
Manganese, Total	98		-		80-120	-		

**Matrix Spike Analysis**  
Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES

**Lab Number:** L1516651

**Project Number:** 21.0056730.40

**Report Date:** 07/24/15

<b>Parameter</b>	<b>Native Sample</b>	<b>MS Added</b>	<b>MS Found</b>	<b>MS %Recovery</b>	<b>Qual</b>	<b>MSD Found</b>	<b>MSD %Recovery</b>	<b>Qual</b>	<b>Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Total Metals - Westborough Lab Associated sample(s): 01    QC Batch ID: WG803965-4    QC Sample: L1516648-01    Client ID: MS Sample												
Iron, Total	0.532	1	1.60	107		-	-		75-125	-		20
Manganese, Total	0.0734	0.5	0.6005	105		-	-		75-125	-		20

# **INORGANICS & MISCELLANEOUS**

**Project Name:** COYNE TEXTILE SERVICES  
**Project Number:** 21.0056730.40

**Lab Number:** L1516651  
**Report Date:** 07/24/15

**SAMPLE RESULTS**

**Lab ID:** L1516651-01  
**Client ID:** MW-4-71715  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, N  
**Matrix:** Water

**Date Collected:** 07/17/15 15:45  
**Date Received:** 07/17/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Alkalinity, Total	613.		mg CaCO3/L	4.00	NA	2	-	07/20/15 10:12	30,2320B	SG
Nitrogen, Nitrate	0.022	J	mg/l	0.10	0.019	1	-	07/18/15 02:04	44,353.2	MR
Total Organic Carbon	14.		mg/l	2.5	0.57	5	-	07/21/15 08:20	1,9060A	DW
<b>Anions by Ion Chromatography - Westborough Lab</b>										
Sulfate	42.6		mg/l	1.00	0.051	1	-	07/20/15 18:44	44,300.0	AU



Project Name: COYNE TEXTILE SERVICES

Lab Number: L1516651

Project Number: 21.0056730.40

Report Date: 07/24/15

**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 Batch: WG803898-1										
Nitrogen, Nitrate	0.062	J	mg/l	0.10	0.019	1	-	07/18/15 00:24	44,353.2	MR
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG804256-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	07/20/15 10:12	30,2320B	SG
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG804480-1										
Total Organic Carbon	ND		mg/l	0.50	0.11	1	-	07/21/15 08:20	1,9060A	DW
Anions by Ion Chromatography - Westborough Lab for sample(s): 01 Batch: WG804703-1										
Sulfate	0.071	J	mg/l	1.00	0.051	1	-	07/20/15 17:44	44,300.0	AU

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES

**Project Number:** 21.0056730.40

**Lab Number:** L1516651

**Report Date:** 07/24/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG803898-2								
Nitrogen, Nitrate	100		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG804256-3								
Alkalinity, Total	104		-		90-110	-		10
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG804480-2								
Total Organic Carbon	98		-		90-110	-		
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 Batch: WG804703-2								
Sulfate	102		-		90-110	-		

### Matrix Spike Analysis Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES

**Lab Number:** L1516651

**Project Number:** 21.0056730.40

**Report Date:** 07/24/15

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 QC Batch ID: WG803898-4 QC Sample: L1516506-03 Client ID: MS Sample												
Nitrogen, Nitrate	0.12	4	3.8	92	-	-	-	-	83-113	-	-	6
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG804256-4 QC Sample: L1516631-03 Client ID: MS Sample												
Alkalinity, Total	236.	100	328	92	-	-	-	-	86-116	-	-	10
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG804480-4 QC Sample: L1516651-01 Client ID: MW-4-71715												
Total Organic Carbon	14.	40	57	106	-	-	-	-	80-120	-	-	20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG804703-3 WG804703-4 QC Sample: L1516631-03 Client ID: MS Sample												
Sulfate	1.79	8	10.5	108	10.4	107	107	107	60-140	1	1	20

## Lab Duplicate Analysis

Batch Quality Control

Project Name: COYNE TEXTILE SERVICES

Project Number: 21.0056730.40

Lab Number: L1516651

Report Date: 07/24/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG803898-3 QC Sample: L1516506-03 Client ID: DUP Sample						
Nitrogen, Nitrate	0.12	0.097J	mg/l	NC		6
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG804256-2 QC Sample: L1516631-03 Client ID: DUP Sample						
Alkalinity, Total	236.	239	mg CaCO3/L	1		10
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG804480-3 QC Sample: L1516651-01 Client ID: MW-4-71715						
Total Organic Carbon	14.	14	mg/l	0		20

Project Name: COYNE TEXTILE SERVICES

Lab Number: L1516651

Project Number: 21.0056730.40

Report Date: 07/24/15

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

## Cooler Information Custody Seal

## Cooler

A Absent

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1516651-01D	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1516651-01E	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1516651-01F	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-9060(28)
L1516651-01G	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-9060(28)
L1516651-01H	Plastic 250ml unpreserved w/No H	A	N/A	4.2	Y	Absent	ALK-T-2320(14)
L1516651-01I	Plastic 250ml HNO3 preserved	A	<2	4.2	Y	Absent	FE-6020T(180),MN-6020T(180)
L1516651-01J	Plastic 250ml unpreserved	A	7	4.2	Y	Absent	SO4-300(28),NO3-353(2)
L1516651-02A	Vial HCl preserved	A	N/A	4.2	Y	Absent	-
L1516651-02B	Vial HCl preserved	A	N/A	4.2	Y	Absent	-
L1516651-02C	Vial HCl preserved	A	N/A	4.2	Y	Absent	-

## Container Comments

L1516651-01I

\*Values in parentheses indicate holding time in days

**Project Name:** COYNE TEXTILE SERVICES  
**Project Number:** 21.0056730.40

**Lab Number:** L1516651  
**Report Date:** 07/24/15

## 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.
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).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** COYNE TEXTILE SERVICES  
**Project Number:** 21.0056730.40

**Lab Number:** L1516651  
**Report Date:** 07/24/15

#### Data Qualifiers

- 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.

**Project Name:** COYNE TEXTILE SERVICES  
**Project Number:** 21.0056730.40

**Lab Number:** L1516651  
**Report Date:** 07/24/15

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 117 Technical Guidance for the Natural Attenuation Indicators: Methane, Ethane, and Ethene, EPA-NE, Revision 1, February 21, 2002 and Sample Preparation & Calculations for Dissolved Gas Analysis in Water Samples using a GC Headspace Equilibration Technique, EPA RSKSOP-175, Revision 2, May 2004.

## 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

Last revised December 16, 2014

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**The following analytes are not included in our NELAP Scope of Accreditation:**

### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**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.

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**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,Tl; **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,Tl,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.**

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For a complete listing of analytes and methods, please contact your Alpha Project Manager.







## ANALYTICAL REPORT

Lab Number:	L1516772
Client:	The Palmerton Group 535 Washington Street 11th Floor Buffalo, NY 14203
ATTN:	Thomas Bohlen
Phone:	(716) 844-7050
Project Name:	COYNE TEXTILE SERVICES-MW INST
Project Number:	21.0056730.40
Report Date:	07/27/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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).

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1516772-01	MW-5A-72015	WATER	140 CORTLAND AVE., SYRACUSE, NY 13202	07/20/15 15:55	07/20/15
L1516772-02	FIELD DUPLICATE-002-72015	WATER	140 CORTLAND AVE., SYRACUSE, NY 13202	07/20/15 00:00	07/20/15

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

### 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 all of the requirements of NELAC, for all NELAC accredited parameters. 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.

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**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

### Case Narrative (continued)

#### Report Submission

The results of the Volatile Organics analysis will be issued under separate cover.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Sample Receipt

L1516772-01 and -02: The sample was received above the appropriate pH for the Metals analysis. The laboratory added additional HNO<sub>3</sub> to a pH <2.

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:

 Cristin Walker

Title: Technical Director/Representative

Date: 07/27/15

# ORGANICS

# VOLATILES

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

**SAMPLE RESULTS**

Lab ID: L1516772-01  
 Client ID: MW-5A-72015  
 Sample Location: 140 CORTLAND AVE., SYRACUSE, NY 13202  
 Matrix: Water  
 Analytical Method: 117,-  
 Analytical Date: 07/23/15 10:08  
 Analyst: MR

Date Collected: 07/20/15 15:55  
 Date Received: 07/20/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	619		ug/l	0.500	0.500	1	A
Ethene	32.3		ug/l	0.500	0.500	1	A
Ethane	82.6		ug/l	0.500	0.500	1	A

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

**SAMPLE RESULTS**

Lab ID: L1516772-02  
 Client ID: FIELD DUPLICATE-002-72015  
 Sample Location: 140 CORTLAND AVE., SYRACUSE, NY 13202  
 Matrix: Water  
 Analytical Method: 117,-  
 Analytical Date: 07/23/15 10:23  
 Analyst: MR

Date Collected: 07/20/15 00:00  
 Date Received: 07/20/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	526		ug/l	0.500	0.500	1	A
Ethene	27.8		ug/l	0.500	0.500	1	A
Ethane	69.8		ug/l	0.500	0.500	1	A

**Project Name:** COYNE TEXTILE SERVICES-MW INST**Lab Number:** L1516772**Project Number:** 21.0056730.40**Report Date:** 07/27/15**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 117,-

Analytical Date: 07/23/15 09:12

Analyst: MR

<b>Parameter</b>	<b>Result</b>	<b>Qualifier</b>	<b>Units</b>	<b>RL</b>	<b>MDL</b>	
Dissolved Gases by GC - Mansfield Lab for sample(s): 01-02 Batch: WG805357-4						
Methane	ND		ug/l	0.500	0.500	A
Ethene	ND		ug/l	0.500	0.500	A
Ethane	ND		ug/l	0.500	0.500	A

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Project Number:** 21.0056730.40

**Lab Number:** L1516772

**Report Date:** 07/27/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>	<b>Column</b>
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01-02 Batch: WG805357-1									
Methane	85		-		80-120	-		25	A
Ethene	91		-		80-120	-		25	A
Ethane	90		-		80-120	-		25	A

### Matrix Spike Analysis Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>	<i>Column</i>
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG805357-6 WG805357-7 QC Sample: L1516897-02 Client ID: MS Sample													
Methane	47.7	54.6	110	114		110	114		80-120	0		25	A
Ethene	ND	95.5	104	109		101	106		80-120	3		25	A
Ethane	1.51	102	112	108		108	104		80-120	4		25	A

## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Project Number:** 21.0056730.40

**Lab Number:** L1516772

**Report Date:** 07/27/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG805357-5 QC Sample: L1516897-03 Client ID: DUP Sample						
Methane	5700	5740	ug/l	1		25 A
Ethene	625	619	ug/l	1		25 A
Ethane	1080	1080	ug/l	0		25 A

## METALS

**Project Name:** COYNE TEXTILE SERVICES-MW INST**Lab Number:** L1516772**Project Number:** 21.0056730.40**Report Date:** 07/27/15**SAMPLE RESULTS**

Lab ID: L1516772-01

Date Collected: 07/20/15 15:55

Client ID: MW-5A-72015

Date Received: 07/20/15

Sample Location: 140 CORTLAND AVE., SYRACUSE, N

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Iron, Total	2.66		mg/l	0.0500	0.0120	1	07/21/15 11:35	07/22/15 16:49	EPA 3005A	1,6020A	KL
Manganese, Total	0.3569		mg/l	0.00100	0.00030	1	07/21/15 11:35	07/22/15 16:49	EPA 3005A	1,6020A	KL



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

**SAMPLE RESULTS**

Lab ID: L1516772-02  
 Client ID: FIELD DUPLICATE-002-72015  
 Sample Location: 140 CORTLAND AVE., SYRACUSE, N  
 Matrix: Water

Date Collected: 07/20/15 00:00  
 Date Received: 07/20/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Iron, Total	1.97		mg/l	0.0500	0.0120	1	07/21/15 11:35	07/22/15 16:53	EPA 3005A	1,6020A	KL
Manganese, Total	0.3637		mg/l	0.00100	0.00030	1	07/21/15 11:35	07/22/15 16:53	EPA 3005A	1,6020A	KL



Project Name: COYNE TEXTILE SERVICES-MW INST

Lab Number: L1516772

Project Number: 21.0056730.40

Report Date: 07/27/15

## Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG804488-1										
Iron, Total	ND		mg/l	0.0500	0.0120	1	07/21/15 11:35	07/22/15 15:50	1,6020A	KL
Manganese, Total	0.00030	J	mg/l	0.00100	0.00030	1	07/21/15 11:35	07/22/15 15:50	1,6020A	KL

### Prep Information

Digestion Method: EPA 3005A

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** COYNE TEXTILE SERVICES-MW INST**Lab Number:** L1516772**Project Number:** 21.0056730.40**Report Date:** 07/27/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG804488-2								
Iron, Total	96		-		80-120	-		
Manganese, Total	98		-		80-120	-		

**Matrix Spike Analysis**  
Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

<b>Parameter</b>	<b>Native Sample</b>	<b>MS Added</b>	<b>MS Found</b>	<b>MS %Recovery</b>	<b>MSD Qual</b>	<b>MSD Found</b>	<b>MSD %Recovery</b>	<b>MSD Qual</b>	<b>Recovery Limits</b>	<b>RPD</b>	<b>RPD Qual</b>	<b>RPD Limits</b>
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG804488-4 QC Sample: L1516769-01 Client ID: MS Sample												
Iron, Total	0.127	1	0.993	87	-	-	-	-	75-125	-	-	20
Manganese, Total	0.0032	0.5	0.5022	100	-	-	-	-	75-125	-	-	20

## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Project Number:** 21.0056730.40

**Lab Number:** L1516772

**Report Date:** 07/27/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG804488-3 QC Sample: L1516769-01 Client ID: DUP Sample						
Iron, Total	0.127	0.423	mg/l	108	Q	20

# **INORGANICS & MISCELLANEOUS**

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

**SAMPLE RESULTS**

**Lab ID:** L1516772-01  
**Client ID:** MW-5A-72015  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, N  
**Matrix:** Water

**Date Collected:** 07/20/15 15:55  
**Date Received:** 07/20/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Alkalinity, Total	467.		mg CaCO3/L	2.00	NA	1	-	07/21/15 06:00	30,2320B	SG
Nitrogen, Nitrate	0.084	J	mg/l	0.10	0.019	1	-	07/21/15 21:33	44,353.2	MR
Total Organic Carbon	9.4		mg/l	5.0	1.1	10	-	07/23/15 08:33	1,9060A	DW
<b>Anions by Ion Chromatography - Westborough Lab</b>										
Sulfate	72.4		mg/l	1.00	0.051	1	-	07/22/15 19:39	44,300.0	AU



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

**SAMPLE RESULTS**

**Lab ID:** L1516772-02  
**Client ID:** FIELD DUPLICATE-002-72015  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, N  
**Matrix:** Water

**Date Collected:** 07/20/15 00:00  
**Date Received:** 07/20/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Alkalinity, Total	446.		mg CaCO3/L	2.00	NA	1	-	07/21/15 06:00	30,2320B	SG
Nitrogen, Nitrate	0.032	J	mg/l	0.10	0.019	1	-	07/21/15 21:34	44,353.2	MR
Total Organic Carbon	8.9		mg/l	5.0	1.1	10	-	07/23/15 08:33	1,9060A	DW
<b>Anions by Ion Chromatography - Westborough Lab</b>										
Sulfate	72.5		mg/l	1.00	0.051	1	-	07/22/15 19:51	44,300.0	AU



Project Name: COYNE TEXTILE SERVICES-MW INST

Lab Number: L1516772

Project Number: 21.0056730.40

Report Date: 07/27/15

**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): 01-02 Batch: WG804487-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	07/21/15 06:00	30,2320B	SG
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG804731-1										
Nitrogen, Nitrate	0.088	J	mg/l	0.10	0.019	1	-	07/21/15 21:16	44,353.2	MR
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-02 Batch: WG805178-1										
Sulfate	ND		mg/l	1.00	0.051	1	-	07/22/15 18:27	44,300.0	AU
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG805240-1										
Total Organic Carbon	ND		mg/l	0.50	0.11	1	-	07/23/15 08:33	1,9060A	DW

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516772

**Project Number:** 21.0056730.40

**Report Date:** 07/27/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG804487-3								
Alkalinity, Total	104		-		90-110	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG804731-2								
Nitrogen, Nitrate	96		-		90-110	-		
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02 Batch: WG805178-2								
Sulfate	99		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG805240-2								
Total Organic Carbon	98		-		90-110	-		

### Matrix Spike Analysis Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG804487-4 QC Sample: L1516701-01 Client ID: MS Sample												
Alkalinity, Total	54.3	100	152	98	-	-	-	-	86-116	-	-	10
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG804731-4 QC Sample: L1516790-01 Client ID: MS Sample												
Nitrogen, Nitrate	0.036J	4	3.7	92	-	-	-	-	83-113	-	-	6
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG805178-3 WG805178-4 QC Sample: L1516897-02 Client ID: MS Sample												
Sulfate	670.	200	886	108	885	107	107	60-140	0	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG805240-4 QC Sample: L1516897-02 Client ID: MS Sample												
Total Organic Carbon	1.6	20	23	108	-	-	-	-	80-120	-	-	20

## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Project Number:** 21.0056730.40

**Lab Number:** L1516772

**Report Date:** 07/27/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG804487-2 QC Sample: L1516701-01 Client ID: DUP Sample						
Alkalinity, Total	54.3	53.9	mg CaCO3/L	1		10
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG804731-3 QC Sample: L1516790-01 Client ID: DUP Sample						
Nitrogen, Nitrate	0.036J	0.044J	mg/l	NC		6
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG805240-3 QC Sample: L1516897-02 Client ID: DUP Sample						
Total Organic Carbon	1.6	2.2J	mg/l	NC		20

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

### Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

#### Cooler Information Custody Seal

##### Cooler

A Absent

#### Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1516772-01A	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1516772-01B	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1516772-01C	20ml Vial HCl preserved	A	N/A	2.3	Y	Absent	DISSGAS(14)
L1516772-01D	20ml Vial HCl preserved	A	N/A	2.3	Y	Absent	DISSGAS(14)
L1516772-01E	Plastic 120ml unpreserved w/No H	A	N/A	2.3	Y	Absent	ALK-T-2320(14)
L1516772-01F	Plastic 250ml unpreserved	A	7	2.3	Y	Absent	SO4-300(28),NO3-353(2)
L1516772-01G	Plastic 250ml HNO3 preserved	A	<2	2.3	Y	Absent	FE-6020T(180),MN-6020T(180)
L1516772-02A	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1516772-02B	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1516772-02C	20ml Vial HCl preserved	A	N/A	2.3	Y	Absent	DISSGAS(14)
L1516772-02D	20ml Vial HCl preserved	A	N/A	2.3	Y	Absent	DISSGAS(14)
L1516772-02E	Plastic 120ml unpreserved w/No H	A	N/A	2.3	Y	Absent	ALK-T-2320(14)
L1516772-02F	Plastic 250ml unpreserved	A	7	2.3	Y	Absent	SO4-300(28),NO3-353(2)
L1516772-02G	Plastic 250ml HNO3 preserved	A	<2	2.3	Y	Absent	FE-6020T(180),MN-6020T(180)

#### Container Comments

L1516772-01G

L1516772-02G

\*Values in parentheses indicate holding time in days

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

## 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.
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).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

#### Data Qualifiers

- 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.

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516772  
**Report Date:** 07/27/15

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 117 Technical Guidance for the Natural Attenuation Indicators: Methane, Ethane, and Ethene, EPA-NE, Revision 1, February 21, 2002 and Sample Preparation & Calculations for Dissolved Gas Analysis in Water Samples using a GC Headspace Equilibration Technique, EPA RSKSOP-175, Revision 2, May 2004.

## 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

Last revised December 16, 2014

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**The following analytes are not included in our NELAP Scope of Accreditation:**

### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**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.

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**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,Tl; **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,Tl,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.**

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For a complete listing of analytes and methods, please contact your Alpha Project Manager.





**NEW YORK CHAIN OF CUSTODY**

Westborough, MA 01581  
8 Walkup Dr.  
TEL: 508-898-9220  
FAX: 508-898-9193

Mansfield, MA 02048  
320 Forbes Blvd  
TEL: 508-822-9300  
FAX: 508-822-3288

**Service Centers**  
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5  
Albany, NY 12205: 14 Walker Way  
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page  
of

Date Rec'd  
in Lab *7/21/15*

ALPHA Job #  
*C1516772*

**Project Information**  
Project Name: *Coyne Textile Services - Mill Installation*  
Project Location: *140 Cortland Ave. Syracuse, NY 13202*  
Project # *21.0056730.40*

**Deliverables**  
 ASP-A  ASP-B  
 EQUIS (1 File)  EQUIS (4 File)  
 Other

**Billing Information**  
 Same as Client Info  
PO #

(Use Project name as Project #)   
Project Manager: *Tom Bohlen*  
ALPHAQuote #:

**Regulatory Requirement**  
 NY TOGS  NY Part 375  
 AWQ Standards  NY CP-51  
 NY Restricted Use  Other  
 NY Unrestricted Use  
 NYC Sewer Discharge

**Disposal Site Information**  
Please identify below location of applicable disposal facilities.  
Disposal Facility:  
 NJ  NY  
 Other:

**Turn-Around Time**  
Standard  Due Date: *7/21/15*  
Rush (only if pre approved)  VOCs only # of Days: *1*

These samples have been previously analyzed by Alpha   
Other project specific requirements/comments:

**ANALYSIS**

VOC 8260	Dissolved Gases RSK-175	Total Organic Carbon 908D	Total Fe & Mn - 808D	Alkalinity 310-1	Sulfate - 308	Nitrate - 353-2
----------	-------------------------	---------------------------	----------------------	------------------	---------------	-----------------

**Sample Filtration**  
 Done  
 Lab to do  
**Preservation**  
 Lab to do  
(Please Specify below)  
Sample Specific Comments

Please specify Metals or TAL.

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS							Sample Specific Comments	Total Bottle	
		Date	Time			VOC 8260	Dissolved Gases RSK-175	Total Organic Carbon 908D	Total Fe & Mn - 808D	Alkalinity 310-1	Sulfate - 308	Nitrate - 353-2			
	MW-4-72015	7/20/15	1401	Aqueous	PCF	X									
<i>16722</i>	MW-5A-72015	7/20/15	1555	↓	PCF	X	X	X	X	X	X	X			
	Trip Blank-006-72015			↓		X									
	Field Duplicate-002-72015	7/20/15		Aqueous	PCF	X	X	X	X	X	X	X			

**Preservative Code:**  
A = None  
B = HCl  
C = HNO<sub>3</sub>  
D = H<sub>2</sub>SO<sub>4</sub>  
E = NaOH  
F = MeOH  
G = NaHSO<sub>4</sub>  
H = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
K/E = Zn Ac/NaOH  
O = Other

**Container Code**  
P = Plastic  
A = Amber Glass  
V = Vial  
G = Glass  
B = Bacteria Cup  
C = Cube  
O = Other  
E = Encore  
D = BOD Bottle

Westboro: Certification No: MA935  
Mansfield: Certification No: MA015

Container Type	V	V	V	P	P	P	P
Preservative	B	B	D	C	O	A	A

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Relinquished By:	Date/Time	Received By:	Date/Time
<i>Patricia Finney</i>	<i>7/20/15 20:15</i>	<i>[Signature]</i>	<i>7/20/15 20:15</i>
<i>[Signature]</i>	<i>7/20/15 22:45</i>	<i>[Signature]</i>	<i>7/20/15 22:45</i>
<i>[Signature]</i>	<i>7/21/15 01:20</i>	<i>[Signature]</i>	<i>7/21/15 01:20</i>



## ANALYTICAL REPORT

Lab Number:	L1516897
Client:	The Palmerton Group 535 Washington Street 11th Floor Buffalo, NY 14203
ATTN:	Thomas Bohlen
Phone:	(716) 844-7050
Project Name:	COYNE TEXTILE SERVICES-MW INST
Project Number:	21.0056730.40
Report Date:	07/29/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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).

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516897  
**Report Date:** 07/29/15

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1516897-01	MW-5B-72115	WATER	140 CORTLAND AVE., SYRACUSE, NY 13202	07/21/15 11:10	07/21/15
L1516897-02	MW-5C-72115	WATER	140 CORTLAND AVE., SYRACUSE, NY 13202	07/21/15 13:00	07/21/15
L1516897-03	MW-6A-72115	WATER	140 CORTLAND AVE., SYRACUSE, NY 13202	07/21/15 15:35	07/21/15

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516897  
**Report Date:** 07/29/15

### 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 all of the requirements of NELAC, for all NELAC accredited parameters. 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.

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**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516897  
**Report Date:** 07/29/15

### Case Narrative (continued)

#### Report Submission

The results of the Volatile Organics analysis have been issued under separate cover.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Sample Receipt

L1516897-02 and -03: The sample was received above the appropriate pH for the Metals analysis. The laboratory added additional HNO<sub>3</sub> to a pH <2.

#### Metals

The WG804841-3/-4 MS/MSD recoveries, performed on L1516897-02, are outside the acceptance criteria for iron (136%/149%). A post digestion spike was performed and was within acceptance criteria.

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:



Michelle M. Morris

Title: Technical Director/Representative

Date: 07/29/15

# ORGANICS

# VOLATILES

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516897  
**Report Date:** 07/29/15

**SAMPLE RESULTS**

Lab ID: L1516897-01  
 Client ID: MW-5B-72115  
 Sample Location: 140 CORTLAND AVE., SYRACUSE, NY 13202  
 Matrix: Water  
 Analytical Method: 117,-  
 Analytical Date: 07/23/15 11:11  
 Analyst: MR

Date Collected: 07/21/15 11:10  
 Date Received: 07/21/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	107		ug/l	0.500	0.500	1	A
Ethene	ND		ug/l	0.500	0.500	1	A
Ethane	1.43		ug/l	0.500	0.500	1	A

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516897  
**Report Date:** 07/29/15

**SAMPLE RESULTS**

Lab ID: L1516897-02  
 Client ID: MW-5C-72115  
 Sample Location: 140 CORTLAND AVE., SYRACUSE, NY 13202  
 Matrix: Water  
 Analytical Method: 117,-  
 Analytical Date: 07/23/15 11:25  
 Analyst: MR

Date Collected: 07/21/15 13:00  
 Date Received: 07/21/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	47.7		ug/l	0.500	0.500	1	A
Ethene	ND		ug/l	0.500	0.500	1	A
Ethane	1.51		ug/l	0.500	0.500	1	A

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516897  
**Report Date:** 07/29/15

**SAMPLE RESULTS**

Lab ID: L1516897-03  
 Client ID: MW-6A-72115  
 Sample Location: 140 CORTLAND AVE., SYRACUSE, NY 13202  
 Matrix: Water  
 Analytical Method: 117,-  
 Analytical Date: 07/23/15 11:40  
 Analyst: MR

Date Collected: 07/21/15 15:35  
 Date Received: 07/21/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	5700		ug/l	0.500	0.500	1	A
Ethene	625		ug/l	0.500	0.500	1	A
Ethane	1080		ug/l	0.500	0.500	1	A

**Project Name:** COYNE TEXTILE SERVICES-MW INST**Lab Number:** L1516897**Project Number:** 21.0056730.40**Report Date:** 07/29/15**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 117,-

Analytical Date: 07/23/15 09:12

Analyst: MR

<b>Parameter</b>	<b>Result</b>	<b>Qualifier</b>	<b>Units</b>	<b>RL</b>	<b>MDL</b>	
Dissolved Gases by GC - Mansfield Lab for sample(s): 01-03 Batch: WG805357-4						
Methane	ND		ug/l	0.500	0.500	A
Ethene	ND		ug/l	0.500	0.500	A
Ethane	ND		ug/l	0.500	0.500	A

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Project Number:** 21.0056730.40

**Lab Number:** L1516897

**Report Date:** 07/29/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>	<b>Column</b>
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01-03 Batch: WG805357-1									
Methane	85		-		80-120	-		25	A
Ethene	91		-		80-120	-		25	A
Ethane	90		-		80-120	-		25	A

## Matrix Spike Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516897

**Project Number:** 21.0056730.40

**Report Date:** 07/29/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>	<i>Column</i>
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG805357-6 WG805357-7 QC Sample: L1516897-02 Client ID: MW-5C-72115													
Methane	47.7	54.6	110	114		110	114		80-120	0		25	A
Ethene	ND	95.5	104	109		101	106		80-120	3		25	A
Ethane	1.51	102	112	108		108	104		80-120	4		25	A

## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Project Number:** 21.0056730.40

**Lab Number:** L1516897

**Report Date:** 07/29/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG805357-5 QC Sample: L1516897-03 Client ID: MW-6A-72115						
Methane	5700	5740	ug/l	1		25 A
Ethene	625	619	ug/l	1		25 A
Ethane	1080	1080	ug/l	0		25 A

## METALS

**Project Name:** COYNE TEXTILE SERVICES-MW INST**Lab Number:** L1516897**Project Number:** 21.0056730.40**Report Date:** 07/29/15**SAMPLE RESULTS**

Lab ID: L1516897-01

Date Collected: 07/21/15 11:10

Client ID: MW-5B-72115

Date Received: 07/21/15

Sample Location: 140 CORTLAND AVE., SYRACUSE, N

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Iron, Total	3.99		mg/l	0.0500	0.0120	1	07/22/15 08:02	07/22/15 15:21	EPA 3005A	1,6020A	KL
Manganese, Total	0.1520		mg/l	0.00100	0.00030	1	07/22/15 08:02	07/22/15 15:21	EPA 3005A	1,6020A	KL



**Project Name:** COYNE TEXTILE SERVICES-MW INST**Lab Number:** L1516897**Project Number:** 21.0056730.40**Report Date:** 07/29/15**SAMPLE RESULTS**

Lab ID: L1516897-02

Date Collected: 07/21/15 13:00

Client ID: MW-5C-72115

Date Received: 07/21/15

Sample Location: 140 CORTLAND AVE., SYRACUSE, N

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Iron, Total	1.11		mg/l	0.0500	0.0120	1	07/22/15 08:02	07/22/15 15:06	EPA 3005A	1,6020A	KL
Manganese, Total	0.1563		mg/l	0.00100	0.00030	1	07/22/15 08:02	07/22/15 15:06	EPA 3005A	1,6020A	KL



**Project Name:** COYNE TEXTILE SERVICES-MW INST**Lab Number:** L1516897**Project Number:** 21.0056730.40**Report Date:** 07/29/15**SAMPLE RESULTS**

Lab ID: L1516897-03

Date Collected: 07/21/15 15:35

Client ID: MW-6A-72115

Date Received: 07/21/15

Sample Location: 140 CORTLAND AVE., SYRACUSE, N

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Iron, Total	3.94		mg/l	0.0500	0.0120	1	07/22/15 08:02	07/22/15 15:24	EPA 3005A	1,6020A	KL
Manganese, Total	0.3640		mg/l	0.00100	0.00030	1	07/22/15 08:02	07/22/15 15:24	EPA 3005A	1,6020A	KL



Project Name: COYNE TEXTILE SERVICES-MW INST

Lab Number: L1516897

Project Number: 21.0056730.40

Report Date: 07/29/15

## Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-03 Batch: WG804841-1									
Iron, Total	ND	mg/l	0.0500	0.0120	1	07/22/15 08:02	07/22/15 14:59	1,6020A	KL
Manganese, Total	ND	mg/l	0.00100	0.00030	1	07/22/15 08:02	07/22/15 14:59	1,6020A	KL

### Prep Information

Digestion Method: EPA 3005A

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516897  
**Report Date:** 07/29/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG804841-2								
Iron, Total	108		-		80-120	-		
Manganese, Total	102		-		80-120	-		

**Matrix Spike Analysis**  
Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516897

**Project Number:** 21.0056730.40

**Report Date:** 07/29/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG804841-3 WG804841-4 QC Sample: L1516897-02 Client ID: MW-5C-72115												
Iron, Total	1.11	1	2.47	136	Q	2.60	149	Q	75-125	5		20
Manganese, Total	0.1563	0.5	0.7508	119		0.7602	121		75-125	1		20

# **INORGANICS & MISCELLANEOUS**

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516897  
**Report Date:** 07/29/15

**SAMPLE RESULTS**

**Lab ID:** L1516897-01  
**Client ID:** MW-5B-72115  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, N  
**Matrix:** Water

**Date Collected:** 07/21/15 11:10  
**Date Received:** 07/21/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Alkalinity, Total	338.		mg CaCO3/L	2.00	NA	1	-	07/22/15 09:02	30,2320B	SG
Nitrogen, Nitrate	0.13		mg/l	0.10	0.019	1	-	07/22/15 22:45	44,353.2	MR
Total Organic Carbon	4.0		mg/l	2.5	0.57	5	-	07/23/15 08:33	1,9060A	DW
<b>Anions by Ion Chromatography - Westborough Lab</b>										
Sulfate	182.		mg/l	25.0	1.30	25	-	07/22/15 22:03	44,300.0	AU



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516897  
**Report Date:** 07/29/15

**SAMPLE RESULTS**

**Lab ID:** L1516897-02  
**Client ID:** MW-5C-72115  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, N  
**Matrix:** Water

**Date Collected:** 07/21/15 13:00  
**Date Received:** 07/21/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Alkalinity, Total	311.		mg CaCO3/L	2.00	NA	1	-	07/22/15 09:02	30,2320B	SG
Nitrogen, Nitrate	0.050	J	mg/l	0.10	0.019	1	-	07/22/15 22:47	44,353.2	MR
Total Organic Carbon	1.6		mg/l	1.0	0.23	2	-	07/23/15 08:33	1,9060A	DW
<b>Anions by Ion Chromatography - Westborough Lab</b>										
Sulfate	670.		mg/l	25.0	1.30	25	-	07/22/15 21:51	44,300.0	AU



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516897  
**Report Date:** 07/29/15

**SAMPLE RESULTS**

**Lab ID:** L1516897-03  
**Client ID:** MW-6A-72115  
**Sample Location:** 140 CORTLAND AVE., SYRACUSE, N  
**Matrix:** Water

**Date Collected:** 07/21/15 15:35  
**Date Received:** 07/21/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Alkalinity, Total	560.		mg CaCO3/L	2.00	NA	1	-	07/22/15 09:02	30,2320B	SG
Nitrogen, Nitrate	0.43		mg/l	0.10	0.019	1	-	07/22/15 22:51	44,353.2	MR
Total Organic Carbon	18.		mg/l	10	2.3	20	-	07/23/15 08:33	1,9060A	DW
<b>Anions by Ion Chromatography - Westborough Lab</b>										
Sulfate	58.0		mg/l	1.00	0.051	1	-	07/22/15 19:27	44,300.0	AU



Project Name: COYNE TEXTILE SERVICES-MW INST

Lab Number: L1516897

Project Number: 21.0056730.40

Report Date: 07/29/15

**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: WG805024-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	07/22/15 09:02	30,2320B	SG
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG805129-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.019	1	-	07/22/15 22:36	44,353.2	MR
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-03 Batch: WG805178-1										
Sulfate	ND		mg/l	1.00	0.051	1	-	07/22/15 18:27	44,300.0	AU
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG805240-1										
Total Organic Carbon	ND		mg/l	0.50	0.11	1	-	07/23/15 08:33	1,9060A	DW

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1516897

**Project Number:** 21.0056730.40

**Report Date:** 07/29/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG805024-3								
Alkalinity, Total	104		-		90-110	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG805129-2								
Nitrogen, Nitrate	100		-		90-110	-		
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-03 Batch: WG805178-2								
Sulfate	99		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG805240-2								
Total Organic Carbon	98		-		90-110	-		

### Matrix Spike Analysis Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516897  
**Report Date:** 07/29/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG805024-4 QC Sample: L1516897-02 Client ID: MW-5C-72115												
Alkalinity, Total	311.	100	403	92	-	-	-	-	86-116	-	-	10
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG805129-4 QC Sample: L1516897-02 Client ID: MW-5C-72115												
Nitrogen, Nitrate	0.050J	4	4.0	100	-	-	-	-	83-113	-	-	6
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG805178-3 WG805178-4 QC Sample: L1516897-02 Client ID: MW-5C-72115												
Sulfate	670.	200	886	108	885	107	-	-	60-140	0	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG805240-4 QC Sample: L1516897-02 Client ID: MW-5C-72115												
Total Organic Carbon	1.6	20	23	108	-	-	-	-	80-120	-	-	20

## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Project Number:** 21.0056730.40

**Lab Number:** L1516897

**Report Date:** 07/29/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG805024-2 QC Sample: L1516897-02 Client ID: MW-5C-72115						
Alkalinity, Total	311.	304	mg CaCO3/L	2		10
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG805129-3 QC Sample: L1516897-02 Client ID: MW-5C-72115						
Nitrogen, Nitrate	0.050J	0.041J	mg/l	NC		6
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG805240-3 QC Sample: L1516897-02 Client ID: MW-5C-72115						
Total Organic Carbon	1.6	2.2J	mg/l	NC		20

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516897  
**Report Date:** 07/29/15

### Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

#### Cooler Information Custody Seal

##### Cooler

A Absent

#### Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1516897-01A	Vial H2SO4 preserved	A	N/A	3.4	Y	Absent	TOC-9060(28)
L1516897-01B	Vial H2SO4 preserved	A	N/A	3.4	Y	Absent	TOC-9060(28)
L1516897-01C	20ml Vial HCl preserved	A	N/A	3.4	Y	Absent	DISSGAS(14)
L1516897-01D	20ml Vial HCl preserved	A	N/A	3.4	Y	Absent	DISSGAS(14)
L1516897-01E	Plastic 120ml unpreserved w/No H	A	N/A	3.4	Y	Absent	ALK-T-2320(14)
L1516897-01F	Plastic 250ml unpreserved	A	7	3.4	Y	Absent	SO4-300(28),NO3-353(2)
L1516897-01G	Plastic 250ml HNO3 preserved	A	<2	3.4	Y	Absent	FE-6020T(180),MN-6020T(180)
L1516897-02A	Vial H2SO4 preserved	A	N/A	3.4	Y	Absent	TOC-9060(28)
L1516897-02A1	Vial H2SO4 preserved	A	N/A	3.4	Y	Absent	TOC-9060(28)
L1516897-02A2	Vial H2SO4 preserved	A	N/A	3.4	Y	Absent	TOC-9060(28)
L1516897-02B	Vial H2SO4 preserved	A	N/A	3.4	Y	Absent	TOC-9060(28)
L1516897-02B1	Vial H2SO4 preserved	A	N/A	3.4	Y	Absent	TOC-9060(28)
L1516897-02B2	Vial H2SO4 preserved	A	N/A	3.4	Y	Absent	TOC-9060(28)
L1516897-02C	20ml Vial HCl preserved	A	N/A	3.4	Y	Absent	DISSGAS(14)
L1516897-02C1	20ml Vial HCl preserved	A	N/A	3.4	Y	Absent	DISSGAS(14)
L1516897-02C2	20ml Vial HCl preserved	A	N/A	3.4	Y	Absent	DISSGAS(14)
L1516897-02D	20ml Vial HCl preserved	A	N/A	3.4	Y	Absent	DISSGAS(14)
L1516897-02D1	20ml Vial HCl preserved	A	N/A	3.4	Y	Absent	DISSGAS(14)
L1516897-02D2	20ml Vial HCl preserved	A	N/A	3.4	Y	Absent	DISSGAS(14)
L1516897-02E	Plastic 120ml unpreserved w/No H	A	N/A	3.4	Y	Absent	ALK-T-2320(14)
L1516897-02E1	Plastic 120ml unpreserved w/No H	A	N/A	3.4	Y	Absent	ALK-T-2320(14)
L1516897-02E2	Plastic 120ml unpreserved w/No H	A	N/A	3.4	Y	Absent	ALK-T-2320(14)
L1516897-02F	Plastic 250ml unpreserved	A	7	3.4	Y	Absent	SO4-300(28),NO3-353(2)
L1516897-02F1	Plastic 250ml unpreserved	A	7	3.4	Y	Absent	SO4-300(28),NO3-353(2)
L1516897-02F2	Plastic 250ml unpreserved	A	7	3.4	Y	Absent	SO4-300(28),NO3-353(2)
L1516897-02G	Plastic 250ml HNO3 preserved	A	<2	3.4	Y	Absent	FE-6020T(180),MN-6020T(180)
L1516897-02G1	Plastic 250ml HNO3 preserved	A	<2	3.4	Y	Absent	FE-6020T(180),MN-6020T(180)

\*Values in parentheses indicate holding time in days

**Project Name:** COYNE TEXTILE SERVICES-MW INST**Project Number:** 21.0056730.40**Lab Number:** L1516897**Report Date:** 07/29/15**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1516897-02G2	Plastic 250ml HNO3 preserved	A	<2	3.4	Y	Absent	FE-6020T(180),MN-6020T(180)
L1516897-03A	Vial H2SO4 preserved	A	N/A	3.4	Y	Absent	TOC-9060(28)
L1516897-03B	Vial H2SO4 preserved	A	N/A	3.4	Y	Absent	TOC-9060(28)
L1516897-03C	20ml Vial HCl preserved	A	N/A	3.4	Y	Absent	DISSGAS(14)
L1516897-03D	20ml Vial HCl preserved	A	N/A	3.4	Y	Absent	DISSGAS(14)
L1516897-03E	Plastic 120ml unpreserved w/No H	A	N/A	3.4	Y	Absent	ALK-T-2320(14)
L1516897-03F	Plastic 250ml unpreserved	A	7	3.4	Y	Absent	SO4-300(28),NO3-353(2)
L1516897-03G	Plastic 250ml HNO3 preserved	A	<2	3.4	Y	Absent	FE-6020T(180),MN-6020T(180)

\*Values in parentheses indicate holding time in days

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516897  
**Report Date:** 07/29/15

## 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.
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).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516897  
**Report Date:** 07/29/15

#### Data Qualifiers

- 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.

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1516897  
**Report Date:** 07/29/15

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 117 Technical Guidance for the Natural Attenuation Indicators: Methane, Ethane, and Ethene, EPA-NE, Revision 1, February 21, 2002 and Sample Preparation & Calculations for Dissolved Gas Analysis in Water Samples using a GC Headspace Equilibration Technique, EPA RSKSOP-175, Revision 2, May 2004.

## 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

Last revised December 16, 2014

### The following analytes are not included in our NELAP Scope of Accreditation:

#### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

#### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**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.

### 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,Tl; **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,Tl,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.

 <b>NEW YORK CHAIN OF CUSTODY</b> Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	<b>Service Centers</b> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page of	Date Rec'd In Lab <b>7/22/15</b>	ALPHA Job # <b>L1516897</b>																																																																																					
		<b>Project Information</b> Project Name: <u>Cayne Textile Services - MW Installation</u> Project Location: <u>140 Cortland Ave. Syracuse, NY 13202</u> Project # <u>21.0056730.40</u> (Use Project name as Project #) <input type="checkbox"/>		<b>Deliverables</b> <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input checked="" type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		<b>Billing Information</b> <input type="checkbox"/> Same as Client Info PO #																																																																																				
<b>Client Information</b> Client: <u>GZA Geo-Environmental</u> Address: <u>535 Washington St. 11th Floor</u> <u>Buffalo, NY 14203</u> Phone: <u>716-685-2300</u> Fax: <u>716-685-3029</u> Email: <u>thomas.bohle@gza.com</u>		<b>Project Manager:</b> <u>Tom Bohle</u> <b>ALPHAQuote #:</b> <b>Turn-Around Time</b> Standard <input type="checkbox"/> Due Date: <u>7/22/15</u> Rush (only if pre approved) <input checked="" type="checkbox"/> <b>VOLs ONLY</b> # of Days: <u>1</u>		<b>Regulatory Requirement</b> <input checked="" type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		<b>Disposal Site Information</b> Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:																																																																																				
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: Please specify Metals or TAL.			<b>ANALYSIS</b> <table border="1" style="width:100%; border-collapse: collapse; font-size: small;"> <tr> <td style="width:5%;">VOC</td> <td style="width:5%;">6260</td> <td style="width:5%;">Dissolved Solids</td> <td style="width:5%;">25-125</td> <td style="width:5%;">Total Organic Carbon</td> <td style="width:5%;">9060</td> <td style="width:5%;">Total Solids</td> <td style="width:5%;">6010</td> <td style="width:5%;">Aluminum</td> <td style="width:5%;">3101</td> <td style="width:5%;">Sulfate</td> <td style="width:5%;">300</td> <td style="width:5%;">Nitrate</td> <td style="width:5%;">3532</td> </tr> </table>			VOC	6260	Dissolved Solids	25-125	Total Organic Carbon	9060	Total Solids	6010	Aluminum	3101	Sulfate	300	Nitrate	3532	<b>Sample Filtration</b> <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <b>Preservation</b> <input type="checkbox"/> Lab to do (Please Specify below) Sample Specific Comments		Total Bottle																																																																				
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<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th colspan="7">ANALYSIS</th> <th rowspan="2">Sample Specific Comments</th> </tr> <tr> <th>Date</th> <th>Time</th> <th>VOC</th> <th>Dissolved Solids</th> <th>Total Organic Carbon</th> <th>Total Solids</th> <th>Aluminum</th> <th>Sulfate</th> <th>Nitrate</th> </tr> </thead> <tbody> <tr> <td>16897-01</td> <td>MW-5B-72115</td> <td>7/21/15</td> <td>1017</td> <td>Appearance</td> <td>PCF</td> <td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td> <td></td> </tr> <tr> <td>02</td> <td>MW-5C-72115</td> <td>↓</td> <td>1300</td> <td>↓</td> <td>PCF</td> <td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td> <td>MMSD (triple of each)</td> </tr> <tr> <td>03</td> <td>MW-6A-72115</td> <td>↓</td> <td>1535</td> <td>↓</td> <td>PCF</td> <td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td> <td></td> </tr> <tr> <td>04</td> <td>Tap Blank-007-72115</td> <td></td> <td></td> <td>↓</td> <td></td> <td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td></td> </tr> </tbody> </table>		ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS							Sample Specific Comments	Date	Time	VOC	Dissolved Solids	Total Organic Carbon	Total Solids	Aluminum	Sulfate	Nitrate	16897-01	MW-5B-72115	7/21/15	1017	Appearance	PCF	X	X	X	X	X	X	X	X		02	MW-5C-72115	↓	1300	↓	PCF	X	X	X	X	X	X	X	X	MMSD (triple of each)	03	MW-6A-72115	↓	1535	↓	PCF	X	X	X	X	X	X	X	X		04	Tap Blank-007-72115			↓		X									Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type: V V V P P P P Preservative: B B D C O A A		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)	
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Form No: 01-25 HC (rev. 30-Sept-2013)																																																																																										



**NEW YORK  
CHAIN OF  
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320 Forbes Blvd  
TEL: 508-822-9300  
FAX: 508-822-3288

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Albany, NY 12205: 14 Walker Way  
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page  
of

Date Rec'd  
in Lab 7/22/15

ALPHA Job #  
L1516897

<b>Project Information</b>		<b>Deliverables</b>		<b>Billing Information</b>	
Project Name: <u>Cayne Textile Services - MW Installation</u>		<input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B		<input type="checkbox"/> Same as Client Info	
Project Location: <u>140 Cortland Ave. Syracuse, NY 13202</u>		<input type="checkbox"/> EQUIS (1 File) <input checked="" type="checkbox"/> EQUIS (4 File)		PO #	
Project # <u>21.0056730.40</u>		<input type="checkbox"/> Other			
Client: <u>GZA Geo Environmental</u>		<b>Regulatory Requirement</b>		<b>Disposal Site Information</b>	
Address: <u>535 Washington St 11th Floor Buffalo, NY 14203</u>		<input checked="" type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375		Please identify below location of applicable disposal facilities.	
Phone: <u>716-685-2300</u>		<input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51		Disposal Facility:	
Fax: <u>716-685-3029</u>		<input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other		<input type="checkbox"/> NJ <input type="checkbox"/> NY	
Email: <u>thomas.bohler@gza.com</u>		<input type="checkbox"/> NY Unrestricted Use		<input type="checkbox"/> Other:	
Turn-Around Time		<input type="checkbox"/> NYC Sewer Discharge			
Standard <input type="checkbox"/> Due Date: <u>7/22/15</u>					
Rush (only if pre approved) <input checked="" type="checkbox"/> <u>VOLS ONLY</u> # of Days: <u>1</u>					

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS							Sample Filtration	Sample Specific Comments	
		Date	Time			Voc 8260	Dissolved gases 254-175	Total Organic Carbon 9060	Total Fe % Mn-6010	Alkalinity - 310.1	Sulfate - 300	Nitrate - 353.2			
16897 - 01	MW-5B-72115	7/21/15	1017	Aqueous	PCF	X	X	X	X	X	X	X	X		
02	MW-5C-72115	↓	1300	↓	PCF	X	X	X	X	X	X	X	X	MSMSD (triple of each)	
03	MW-6A-72115	↓	1535	↓	PCF	X	X	X	X	X	X	X	X		
	Trip Blank-007-72115			↓		X									

Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> K/E = Zn Ac/NaOH O = Other	Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle	Westboro: Certification No: MA935 Mansfield: Certification No: MA015	Container Type	V	V	V	P	P	P	P
			Preservative	B	B	D	C	O	A	A
Relinquished By: <u>Ratna Finnerty</u>		Date/Time: <u>07/21/15 1705</u>	Received By: <u>John Finnerty</u>		Date/Time: <u>7/21/15 1720</u>					
Relinquished By: <u>[Signature]</u>		Date/Time: <u>7/21/15 2315</u>	Received By: <u>[Signature]</u>		Date/Time: <u>7/21/15 2315</u>					
Relinquished By: <u>[Signature]</u>		Date/Time: <u>7/22/15 0140</u>	Received By: <u>[Signature]</u>		Date/Time: <u>7/22/15 0140</u>					

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)



## ANALYTICAL REPORT

Lab Number:	L1517054
Client:	The Palmerton Group 535 Washington Street 11th Floor Buffalo, NY 14203
ATTN:	Thomas Bohlen
Phone:	(716) 844-7050
Project Name:	COYNE TEXTILE SERVICES-MW INST
Project Number:	21.0056730.40
Report Date:	07/30/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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](http://www.alphalab.com)



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517054  
**Report Date:** 07/30/15

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1517054-01	MW-7A-72215	WATER	140 CORTLAND AVE, SYRACUSE, NY 13202	07/22/15 12:25	07/22/15
L1517054-02	MW-7B-72215	WATER	140 CORTLAND AVE, SYRACUSE, NY 13202	07/22/15 14:55	07/22/15
L1517054-03	MW-7C-72215	WATER	140 CORTLAND AVE, SYRACUSE, NY 13202	07/22/15 16:45	07/22/15

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517054  
**Report Date:** 07/30/15

### 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 all of the requirements of NELAC, for all NELAC accredited parameters. 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:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517054  
**Report Date:** 07/30/15

**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.

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:

 Cristin Walker

Title: Technical Director/Representative

Date: 07/30/15

# ORGANICS

# VOLATILES

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517054  
**Report Date:** 07/30/15

**SAMPLE RESULTS**

Lab ID: L1517054-01  
 Client ID: MW-7A-72215  
 Sample Location: 140 CORTLAND AVE, SYRACUSE, NY 13202  
 Matrix: Water  
 Analytical Method: 117,-  
 Analytical Date: 07/23/15 15:33  
 Analyst: MR

Date Collected: 07/22/15 12:25  
 Date Received: 07/22/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	3030		ug/l	0.500	0.500	1	A
Ethene	56.8		ug/l	0.500	0.500	1	A
Ethane	17.4		ug/l	0.500	0.500	1	A

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517054  
**Report Date:** 07/30/15

**SAMPLE RESULTS**

Lab ID: L1517054-02  
 Client ID: MW-7B-72215  
 Sample Location: 140 CORTLAND AVE, SYRACUSE, NY 13202  
 Matrix: Water  
 Analytical Method: 117,-  
 Analytical Date: 07/23/15 15:47  
 Analyst: MR

Date Collected: 07/22/15 14:55  
 Date Received: 07/22/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	207		ug/l	0.500	0.500	1	A
Ethene	12.5		ug/l	0.500	0.500	1	A
Ethane	3.07		ug/l	0.500	0.500	1	A

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517054  
**Report Date:** 07/30/15

**SAMPLE RESULTS**

Lab ID: L1517054-03  
 Client ID: MW-7C-72215  
 Sample Location: 140 CORTLAND AVE, SYRACUSE, NY 13202  
 Matrix: Water  
 Analytical Method: 117,-  
 Analytical Date: 07/23/15 16:02  
 Analyst: MR

Date Collected: 07/22/15 16:45  
 Date Received: 07/22/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	37.7		ug/l	0.500	0.500	1	A
Ethene	ND		ug/l	0.500	0.500	1	A
Ethane	0.814		ug/l	0.500	0.500	1	A

Project Name: COYNE TEXTILE SERVICES-MW INST

Lab Number: L1517054

Project Number: 21.0056730.40

Report Date: 07/30/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 117,-

Analytical Date: 07/23/15 09:12

Analyst: MR

Parameter	Result	Qualifier	Units	RL	MDL	
Dissolved Gases by GC - Mansfield Lab for sample(s): 01-03 Batch: WG805357-4						
Methane	ND		ug/l	0.500	0.500	A
Ethene	ND		ug/l	0.500	0.500	A
Ethane	ND		ug/l	0.500	0.500	A

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Project Number:** 21.0056730.40

**Lab Number:** L1517054

**Report Date:** 07/30/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>	<b>Column</b>
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01-03 Batch: WG805357-1									
Methane	85		-		80-120	-		25	A
Ethene	91		-		80-120	-		25	A
Ethane	90		-		80-120	-		25	A

## Matrix Spike Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517054  
**Report Date:** 07/30/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>	<i>Column</i>
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG805357-6 WG805357-7 QC Sample: L1516897-02 Client ID: MS Sample													
Methane	47.7	54.6	110	114		110	114		80-120	0		25	A
Ethene	ND	95.5	104	109		101	106		80-120	3		25	A
Ethane	1.51	102	112	108		108	104		80-120	4		25	A

## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Project Number:** 21.0056730.40

**Lab Number:** L1517054

**Report Date:** 07/30/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG805357-5 QC Sample: L1516897-03 Client ID: DUP Sample						
Methane	5700	5740	ug/l	1		25 A
Ethene	625	619	ug/l	1		25 A
Ethane	1080	1080	ug/l	0		25 A

## METALS

**Project Name:** COYNE TEXTILE SERVICES-MW INST**Lab Number:** L1517054**Project Number:** 21.0056730.40**Report Date:** 07/30/15**SAMPLE RESULTS**

Lab ID: L1517054-01

Date Collected: 07/22/15 12:25

Client ID: MW-7A-72215

Date Received: 07/22/15

Sample Location: 140 CORTLAND AVE, SYRACUSE, NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Iron, Total	9.55		mg/l	0.050	0.012	1	07/23/15 14:23	07/24/15 13:54	EPA 3005A	1,6020A	BM
Manganese, Total	0.7491		mg/l	0.0200	0.0060	20	07/23/15 14:23	07/24/15 12:59	EPA 3005A	1,6020A	BM



**Project Name:** COYNE TEXTILE SERVICES-MW INST**Lab Number:** L1517054**Project Number:** 21.0056730.40**Report Date:** 07/30/15**SAMPLE RESULTS**

Lab ID: L1517054-02

Date Collected: 07/22/15 14:55

Client ID: MW-7B-72215

Date Received: 07/22/15

Sample Location: 140 CORTLAND AVE, SYRACUSE, NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Iron, Total	3.54		mg/l	0.050	0.012	1	07/23/15 14:23	07/24/15 13:57	EPA 3005A	1,6020A	BM
Manganese, Total	0.4031		mg/l	0.0010	0.0003	1	07/23/15 14:23	07/24/15 13:57	EPA 3005A	1,6020A	BM



**Project Name:** COYNE TEXTILE SERVICES-MW INST**Lab Number:** L1517054**Project Number:** 21.0056730.40**Report Date:** 07/30/15**SAMPLE RESULTS**

Lab ID: L1517054-03

Date Collected: 07/22/15 16:45

Client ID: MW-7C-72215

Date Received: 07/22/15

Sample Location: 140 CORTLAND AVE, SYRACUSE, NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Iron, Total	4.78		mg/l	0.050	0.012	1	07/23/15 14:23	07/24/15 14:00	EPA 3005A	1,6020A	BM
Manganese, Total	0.1970		mg/l	0.0010	0.0003	1	07/23/15 14:23	07/24/15 14:00	EPA 3005A	1,6020A	BM



Project Name: COYNE TEXTILE SERVICES-MW INST

Lab Number: L1517054

Project Number: 21.0056730.40

Report Date: 07/30/15

## Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-03 Batch: WG805327-1									
Iron, Total	ND	mg/l	0.050	0.012	1	07/23/15 14:23	07/24/15 12:18	1,6020A	BM
Manganese, Total	ND	mg/l	0.0010	0.0003	1	07/23/15 14:23	07/24/15 12:18	1,6020A	BM

### Prep Information

Digestion Method: EPA 3005A

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** COYNE TEXTILE SERVICES-MW INST**Lab Number:** L1517054**Project Number:** 21.0056730.40**Report Date:** 07/30/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Total Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG805327-2								
Iron, Total	87		-		80-120	-		
Manganese, Total	97		-		80-120	-		

### Matrix Spike Analysis Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517054  
**Report Date:** 07/30/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG805327-3 WG805327-4 QC Sample: L1516967-01 Client ID: MS Sample												
Iron, Total	29.8	1	29.1	0	Q	30.5	70	Q	75-125	5		20
Manganese, Total	2.394	0.5	2.845	90		2.623	46	Q	75-125	8		20

# **INORGANICS & MISCELLANEOUS**

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517054  
**Report Date:** 07/30/15

**SAMPLE RESULTS**

**Lab ID:** L1517054-01  
**Client ID:** MW-7A-72215  
**Sample Location:** 140 CORTLAND AVE, SYRACUSE, NY  
**Matrix:** Water

**Date Collected:** 07/22/15 12:25  
**Date Received:** 07/22/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Alkalinity, Total	540.		mg CaCO3/L	2.00	NA	1	-	07/24/15 08:38	30,2320B	SG
Nitrogen, Nitrate	0.058	J	mg/l	0.10	0.019	1	-	07/24/15 00:29	44,353.2	MR
Total Organic Carbon	23.		mg/l	10	2.3	20	-	07/23/15 08:33	1,9060A	DW
<b>Anions by Ion Chromatography - Westborough Lab</b>										
Sulfate	150.		mg/l	25.0	1.30	25	-	07/23/15 20:07	44,300.0	JT



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517054  
**Report Date:** 07/30/15

**SAMPLE RESULTS**

**Lab ID:** L1517054-02  
**Client ID:** MW-7B-72215  
**Sample Location:** 140 CORTLAND AVE, SYRACUSE, NY  
**Matrix:** Water

**Date Collected:** 07/22/15 14:55  
**Date Received:** 07/22/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Alkalinity, Total	446.		mg CaCO3/L	2.00	NA	1	-	07/24/15 08:38	30,2320B	SG
Nitrogen, Nitrate	0.085	J	mg/l	0.10	0.019	1	-	07/24/15 00:34	44,353.2	MR
Total Organic Carbon	19.		mg/l	5.0	1.1	10	-	07/23/15 08:33	1,9060A	DW
<b>Anions by Ion Chromatography - Westborough Lab</b>										
Sulfate	283.		mg/l	25.0	1.30	25	-	07/23/15 20:19	44,300.0	JT



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517054  
**Report Date:** 07/30/15

**SAMPLE RESULTS**

**Lab ID:** L1517054-03  
**Client ID:** MW-7C-72215  
**Sample Location:** 140 CORTLAND AVE, SYRACUSE, NY  
**Matrix:** Water

**Date Collected:** 07/22/15 16:45  
**Date Received:** 07/22/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Alkalinity, Total	292.		mg CaCO3/L	2.00	NA	1	-	07/24/15 08:38	30,2320B	SG
Nitrogen, Nitrate	0.059	J	mg/l	0.10	0.019	1	-	07/24/15 00:36	44,353.2	MR
Total Organic Carbon	5.6		mg/l	2.5	0.57	5	-	07/23/15 08:33	1,9060A	DW
<b>Anions by Ion Chromatography - Westborough Lab</b>										
Sulfate	682.		mg/l	25.0	1.30	25	-	07/23/15 20:31	44,300.0	JT



Project Name: COYNE TEXTILE SERVICES-MW INST

Lab Number: L1517054

Project Number: 21.0056730.40

Report Date: 07/30/15

**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: WG805240-1										
Total Organic Carbon	ND		mg/l	0.50	0.11	1	-	07/23/15 08:33	1,9060A	DW
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG805513-1										
Nitrogen, Nitrate	0.030	J	mg/l	0.10	0.019	1	-	07/24/15 00:24	44,353.2	MR
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG805698-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	07/24/15 08:38	30,2320B	SG
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-03 Batch: WG806130-1										
Sulfate	ND		mg/l	1.00	0.051	1	-	07/23/15 16:31	44,300.0	JT

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** COYNE TEXTILE SERVICES-MW INST**Lab Number:** L1517054**Project Number:** 21.0056730.40**Report Date:** 07/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG805240-2								
Total Organic Carbon	98		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG805513-2								
Nitrogen, Nitrate	106		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG805698-3								
Alkalinity, Total	106		-		90-110	-		10
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-03 Batch: WG806130-2								
Sulfate	100		-		90-110	-		

### Matrix Spike Analysis Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517054  
**Report Date:** 07/30/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG805240-4 QC Sample: L1516897-02 Client ID: MS Sample												
Total Organic Carbon	1.6	20	23	108	-	-	-	-	80-120	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG805513-4 QC Sample: L1517159-02 Client ID: MS Sample												
Nitrogen, Nitrate	0.077J	4	4.5	112	-	-	-	-	83-113	-	-	6
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG805698-4 QC Sample: L1517151-01 Client ID: MS Sample												
Alkalinity, Total	56.2	100	157	101	-	-	-	-	86-116	-	-	10
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG806130-4 QC Sample: L1516354-02 Client ID: MS Sample												
Sulfate	115.	40	156	103	-	-	-	-	60-140	-	-	20

## Lab Duplicate Analysis

Batch Quality Control

Project Name: COYNE TEXTILE SERVICES-MW INST

Project Number: 21.0056730.40

Lab Number: L1517054

Report Date: 07/30/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG805240-3 QC Sample: L1516897-02 Client ID: DUP Sample						
Total Organic Carbon	1.6	2.2J	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG805513-3 QC Sample: L1517159-02 Client ID: DUP Sample						
Nitrogen, Nitrate	0.077J	0.066J	mg/l	NC		6
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG805698-2 QC Sample: L1517151-01 Client ID: DUP Sample						
Alkalinity, Total	56.2	56.4	mg CaCO3/L	0		10
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG806130-3 QC Sample: L1516354-02 Client ID: DUP Sample						
Sulfate	115.	116	mg/l	1		20

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517054  
**Report Date:** 07/30/15

### Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

#### Cooler Information Custody Seal

##### Cooler

A Absent

#### Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1517054-01A	Vial H2SO4 preserved	A	N/A	5.2	Y	Absent	TOC-9060(28)
L1517054-01B	Vial H2SO4 preserved	A	N/A	5.2	Y	Absent	TOC-9060(28)
L1517054-01C	20ml Vial HCl preserved	A	N/A	5.2	Y	Absent	DISSGAS(14)
L1517054-01D	20ml Vial HCl preserved	A	N/A	5.2	Y	Absent	DISSGAS(14)
L1517054-01E	Plastic 120ml unpreserved w/No H	A	N/A	5.2	Y	Absent	ALK-T-2320(14)
L1517054-01F	Plastic 250ml unpreserved	A	8	5.2	Y	Absent	SO4-300(28),NO3-353(2)
L1517054-01G	Plastic 250ml HNO3 preserved	A	<2	5.2	Y	Absent	FE-6020T(180),MN-6020T(180)
L1517054-02A	Vial H2SO4 preserved	A	N/A	5.2	Y	Absent	TOC-9060(28)
L1517054-02B	Vial H2SO4 preserved	A	N/A	5.2	Y	Absent	TOC-9060(28)
L1517054-02C	20ml Vial HCl preserved	A	N/A	5.2	Y	Absent	DISSGAS(14)
L1517054-02D	20ml Vial HCl preserved	A	N/A	5.2	Y	Absent	DISSGAS(14)
L1517054-02E	Plastic 120ml unpreserved w/No H	A	N/A	5.2	Y	Absent	ALK-T-2320(14)
L1517054-02F	Plastic 250ml unpreserved	A	8	5.2	Y	Absent	SO4-300(28),NO3-353(2)
L1517054-02G	Plastic 250ml HNO3 preserved	A	<2	5.2	Y	Absent	FE-6020T(180),MN-6020T(180)
L1517054-03A	Vial H2SO4 preserved	A	N/A	5.2	Y	Absent	TOC-9060(28)
L1517054-03B	Vial H2SO4 preserved	A	N/A	5.2	Y	Absent	TOC-9060(28)
L1517054-03C	20ml Vial HCl preserved	A	N/A	5.2	Y	Absent	DISSGAS(14)
L1517054-03D	20ml Vial HCl preserved	A	N/A	5.2	Y	Absent	DISSGAS(14)
L1517054-03E	Plastic 120ml unpreserved w/No H	A	N/A	5.2	Y	Absent	ALK-T-2320(14)
L1517054-03F	Plastic 250ml unpreserved	A	8	5.2	Y	Absent	SO4-300(28),NO3-353(2)
L1517054-03G	Plastic 250ml HNO3 preserved	A	<2	5.2	Y	Absent	FE-6020T(180),MN-6020T(180)

\*Values in parentheses indicate holding time in days

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517054  
**Report Date:** 07/30/15

## 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.
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).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517054  
**Report Date:** 07/30/15

#### Data Qualifiers

- 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.

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517054  
**Report Date:** 07/30/15

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 117 Technical Guidance for the Natural Attenuation Indicators: Methane, Ethane, and Ethene, EPA-NE, Revision 1, February 21, 2002 and Sample Preparation & Calculations for Dissolved Gas Analysis in Water Samples using a GC Headspace Equilibration Technique, EPA RSKSOP-175, Revision 2, May 2004.

## 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

Last revised December 16, 2014

**The following analytes are not included in our NELAP Scope of Accreditation:**

### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**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.

**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,Tl; **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,Tl,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.



**NEW YORK CHAIN OF CUSTODY**

Westborough, MA 01581  
8 Walkup Dr.  
TEL: 508-898-9220  
FAX: 508-898-9193

Mansfield, MA 02048  
320 Forbes Blvd  
TEL: 508-822-9300  
FAX: 508-822-3288

**Service Centers**  
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5  
Albany, NY 12205: 14 Walker Way  
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

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of

Date Rec'd in Lab 7/23/15

ALPHA Job # 1517054

<b>Project Information</b>	<b>Deliverables</b>	<b>Billing Information</b>
Project Name: <u>Cayne Textile Services - MW Installation</u>	<input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B	<input type="checkbox"/> Same as Client Info
Project Location: <u>140 Cortland Ave, Syracuse, NY 13202</u>	<input type="checkbox"/> EQUIS (1 File) <input checked="" type="checkbox"/> EQUIS (4 File)	PO #
Project # <u>21.0056730.40</u>	<input type="checkbox"/> Other	

<b>Client Information</b>	<b>Regulatory Requirement</b>	<b>Disposal Site Information</b>
Client: <u>GZA GeoEnvironmental</u>	<input checked="" type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375	Please identify below location of applicable disposal facilities.
Address: <u>535 Washington 4th Floor Buffalo, NY 14203</u>	<input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51	Disposal Facility:
Phone: <u>716-685-2300</u>	<input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other	<input type="checkbox"/> NJ <input type="checkbox"/> NY
Fax: <u>716-685-3029</u>	<input type="checkbox"/> NY Unrestricted Use	<input type="checkbox"/> Other:
Email: <u>thomas.bohlen@gza.com</u>	<input type="checkbox"/> NYC Sewer Discharge	

These samples have been previously analyzed by Alpha

**Other project specific requirements/comments:**

Please specify Metals or TAL.

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS												Sample Filtration	Total Bottles
		Date	Time			VOC	Dissolved Ases	Total Organic Carbon	Total Fe & Mn	Alkalinity	Sulfate	Nitrate	Done	Lab to do Preservation	Lab to do				
<u>17054-01</u>	<u>MW-7A-72215</u>	<u>7/22/15</u>	<u>1225</u>	<u>Aggress</u>	<u>PLF</u>	X	X	X	X	X	X	X	X	X	X	X			
<u>02</u>	<u>MW-7B-72215</u>	↓	<u>1455</u>	↓	<u>PCF</u>	X	X	X	X	X	X	X	X	X	X	X			
<u>03</u>	<u>MW-7C-72215</u>	↓	<u>1645</u>	↓	<u>PCF</u>	X	X	X	X	X	X	X	X	X	X	X			
	<u>Trip Blank-008-72215</u>			↓		X													

Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> K/E = Zn Ac/NaOH O = Other	Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle	Westboro: Certification No: MA935 Mansfield: Certification No: MA015	Container Type V V V P P P P	Preservative B B D C O A A
---	--	---	---------------------------------	-------------------------------

Relinquished By: <u>Tatiana Finney</u>	Date/Time <u>7/22/15 1900</u>	Received By: <u>[Signature]</u>	Date/Time <u>7/22/15 1900</u>
<u>[Signature]</u>	<u>7/22/15 0050</u>	<u>[Signature]</u>	<u>7/22/15 0050</u>
<u>[Signature]</u>	<u>7/23/15 0333</u>	<u>[Signature]</u>	<u>7/23/15 0333</u>

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)



**NEW YORK CHAIN OF CUSTODY**

Westborough, MA 01581  
8 Walkup Dr.  
TEL: 508-898-9220  
FAX: 508-898-9193

Mansfield, MA 02048  
320 Forbes Blvd  
TEL: 508-822-9300  
FAX: 508-822-3288

**Service Centers**  
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5  
Albany, NY 12205: 14 Walker Way  
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

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Date Rec'd in Lab

7/23/15

ALPHA Job #

11519054

**Project Information**

Project Name: Coyne Textile Services - MW Installation

Project Location: 140 Cortland Ave, Syracuse, NY 13202

Project # 21.0056730.40

(Use Project name as Project #)

Project Manager: Tom Bohler

ALPHAQuote #:

**Turn-Around Time**

Standard

Due Date: 7/23/15

Rush (only if pre approved)  VAC ONLY # of Days: 1

**Deliverables**

- ASP-A
- ASP-B
- EQUIS (1 File)
- EQUIS (4 File)
- Other

**Billing Information**

- Same as Client Info
- PO #

**Client Information**

Client: GEA Environmental

Address: 535 Washington 4th Floor Buffalo, NY, 14203

Phone: 716-685-2300

Fax: 716-685-3029

Email: thomas.bohler@gea.com

**Regulatory Requirement**

- NY TOGS
- NY Part 375
- AWQ Standards
- NY CP-51
- NY Restricted Use
- Other
- NY Unrestricted Use
- NYC Sewer Discharge

**Disposal Site Information**

Please identify below location of applicable disposal facilities.

Disposal Facility:

- NJ
- NY
- Other:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

**ANALYSIS**

VOC	Disolved Res	Total Organic Carbon	Total Fe	Ammonia	Sulfate	Nitrate
6266	175	9669	6810	301	300	3572

**Sample Filtration**

- Done
- Lab to do
- Preservation**
- Lab to do

(Please Specify below)

Sample Specific Comments

Total Bottles

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
17054-01	MW-7A-72215	7/22/15	1225	Aggrav	PCF
02	MW-7B-72215	↓	1455	↓	PCF
03	MW-7C-72215	↓	1645	↓	PCF
	Trip Blank-008-72215			↓	

**Preservative Code:**  
A = None  
B = HCl  
C = HNO<sub>3</sub>  
D = H<sub>2</sub>SO<sub>4</sub>  
E = NaOH  
F = MeOH  
G = NaHSO<sub>4</sub>  
H = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
K/E = Zn Ac/NaOH  
O = Other

**Container Code**  
P = Plastic  
A = Amber Glass  
V = Vial  
G = Glass  
B = Bacteria Cup  
C = Cube  
O = Other  
E = Encore  
D = BOD Bottle

Westboro: Certification No: MA935  
Mansfield: Certification No: MA015

Container Type	V	V	V	P	P	P	P
Preservative	B	B	D	C	O	A	A

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Relinquished By:	Date/Time	Received By:	Date/Time
<u>Tom Bohler</u>	<u>7/22/15 1900</u>	<u>[Signature]</u>	<u>7/22/15 1900</u>
<u>[Signature]</u>	<u>7/22/15 0050</u>	<u>[Signature]</u>	<u>7/23/15 0052</u>
<u>[Signature]</u>	<u>7/23/15 0300</u>	<u>[Signature]</u>	<u>7/23/15 0333</u>
<u>[Signature]</u>	<u>7/23/15 0600</u>	<u>[Signature]</u>	<u>7/23/15 0600</u>



## ANALYTICAL REPORT

Lab Number:	L1517226
Client:	The Palmerton Group 535 Washington Street 11th Floor Buffalo, NY 14203
ATTN:	Thomas Bohlen
Phone:	(716) 844-7050
Project Name:	COYNE TEXTILE SERVICES-MW INST
Project Number:	21.0056730.40
Report Date:	07/31/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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](http://www.alphalab.com)



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517226  
**Report Date:** 07/31/15

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1517226-01	MW-6B-72315	WATER	140 CORTLAND AVE, SYRACUSE, NY 13202	07/23/15 10:25	07/23/15
L1517226-02	MW-6C-72315	WATER	140 CORTLAND AVE, SYRACUSE, NY 13202	07/23/15 12:50	07/23/15
L1517226-03	EQUIPMENT BLANK-001	WATER	140 CORTLAND AVE, SYRACUSE, NY 13202	07/23/15 14:55	07/23/15

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517226  
**Report Date:** 07/31/15

### 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 all of the requirements of NELAC, for all NELAC accredited parameters. 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:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517226  
**Report Date:** 07/31/15

### Case Narrative (continued)

#### Report Submission

The results of the Volatile Organics analysis has been issued under separate cover.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Sample Receipt

L1517226-03: The sample was received above the appropriate pH for the Metals analysis. The laboratory added additional HNO<sub>3</sub> to a pH <2.

#### Dissolved Gases

L1517226-01 was collected in a pre-preserved vial; however, the pH of the sample was determined to be greater than two.

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:

 Cristin Walker

Title: Technical Director/Representative

Date: 07/31/15

# ORGANICS

# VOLATILES

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517226  
**Report Date:** 07/31/15

**SAMPLE RESULTS**

Lab ID: L1517226-01  
 Client ID: MW-6B-72315  
 Sample Location: 140 CORTLAND AVE, SYRACUSE, NY 13202  
 Matrix: Water  
 Analytical Method: 117,-  
 Analytical Date: 07/29/15 12:32  
 Analyst: MR

Date Collected: 07/23/15 10:25  
 Date Received: 07/23/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	3880		ug/l	0.500	0.500	1	A
Ethene	593		ug/l	0.500	0.500	1	A
Ethane	728		ug/l	0.500	0.500	1	A

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517226  
**Report Date:** 07/31/15

**SAMPLE RESULTS**

Lab ID: L1517226-02  
 Client ID: MW-6C-72315  
 Sample Location: 140 CORTLAND AVE, SYRACUSE, NY 13202  
 Matrix: Water  
 Analytical Method: 117,-  
 Analytical Date: 07/29/15 12:47  
 Analyst: MR

Date Collected: 07/23/15 12:50  
 Date Received: 07/23/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	16.9		ug/l	0.500	0.500	1	A
Ethene	1.05		ug/l	0.500	0.500	1	A
Ethane	2.00		ug/l	0.500	0.500	1	A

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517226  
**Report Date:** 07/31/15

**SAMPLE RESULTS**

Lab ID: L1517226-03  
 Client ID: EQUIPMENT BLANK-001  
 Sample Location: 140 CORTLAND AVE, SYRACUSE, NY 13202  
 Matrix: Water  
 Analytical Method: 117,-  
 Analytical Date: 07/29/15 11:48  
 Analyst: MR

Date Collected: 07/23/15 14:55  
 Date Received: 07/23/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	ND		ug/l	0.500	0.500	1	A
Ethene	ND		ug/l	0.500	0.500	1	A
Ethane	ND		ug/l	0.500	0.500	1	A

**Project Name:** COYNE TEXTILE SERVICES-MW INST**Lab Number:** L1517226**Project Number:** 21.0056730.40**Report Date:** 07/31/15**Method Blank Analysis**  
**Batch Quality Control****Analytical Method:** 117,-  
**Analytical Date:** 07/29/15 10:41  
**Analyst:** MR

<b>Parameter</b>	<b>Result</b>	<b>Qualifier</b>	<b>Units</b>	<b>RL</b>	<b>MDL</b>	
Dissolved Gases by GC - Mansfield Lab for sample(s): 01-03 Batch: WG807000-4						
Methane	ND		ug/l	0.500	0.500	A
Ethene	ND		ug/l	0.500	0.500	A
Ethane	ND		ug/l	0.500	0.500	A

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517226  
**Report Date:** 07/31/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>	<b>Column</b>
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01-03 Batch: WG807000-1									
Methane	107		-		80-120	-		25	A
Ethene	115		-		80-120	-		25	A
Ethane	113		-		80-120	-		25	A

## Matrix Spike Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517226  
**Report Date:** 07/31/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>	<i>Column</i>
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG807000-6 QC Sample: L1517226-02 Client ID: MW-6C-72315													
Methane	16.9	54.6	69.9	97		-	-		80-120	-		25	A
Ethene	1.05	95.5	112	116		-	-		80-120	-		25	A
Ethane	2.00	102	115	110		-	-		80-120	-		25	A

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Duplicate Analysis**  
**Batch Quality Control**

**Lab Number:** L1517226  
**Report Date:** 07/31/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG807000-5 QC Sample: L1517226-01 Client ID: MW-6B-72315						
Methane	3880	3940	ug/l	2		25 A
Ethene	593	602	ug/l	2		25 A
Ethane	728	743	ug/l	2		25 A

## METALS

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517226  
**Report Date:** 07/31/15

**SAMPLE RESULTS**

Lab ID: L1517226-01  
 Client ID: MW-6B-72315  
 Sample Location: 140 CORTLAND AVE, SYRACUSE, NY  
 Matrix: Water

Date Collected: 07/23/15 10:25  
 Date Received: 07/23/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Iron, Total	2.49		mg/l	0.0500	0.0120	1	07/24/15 07:53	07/24/15 12:09	EPA 3005A	1,6020A	KL
Manganese, Total	0.3362		mg/l	0.00100	0.00030	1	07/24/15 07:53	07/24/15 12:09	EPA 3005A	1,6020A	KL



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517226  
**Report Date:** 07/31/15

**SAMPLE RESULTS**

Lab ID: L1517226-02  
 Client ID: MW-6C-72315  
 Sample Location: 140 CORTLAND AVE, SYRACUSE, NY  
 Matrix: Water

Date Collected: 07/23/15 12:50  
 Date Received: 07/23/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Iron, Total	1.45		mg/l	0.0500	0.0120	1	07/24/15 07:53	07/24/15 12:13	EPA 3005A	1,6020A	KL
Manganese, Total	0.09217		mg/l	0.00100	0.00030	1	07/24/15 07:53	07/24/15 12:13	EPA 3005A	1,6020A	KL



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517226  
**Report Date:** 07/31/15

**SAMPLE RESULTS**

Lab ID: L1517226-03  
 Client ID: EQUIPMENT BLANK-001  
 Sample Location: 140 CORTLAND AVE, SYRACUSE, NY  
 Matrix: Water

Date Collected: 07/23/15 14:55  
 Date Received: 07/23/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Iron, Total	ND		mg/l	0.0500	0.0120	1	07/24/15 07:53	07/24/15 11:51	EPA 3005A	1,6020A	KL
Manganese, Total	0.00030	J	mg/l	0.00100	0.00030	1	07/24/15 07:53	07/24/15 11:51	EPA 3005A	1,6020A	KL



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517226  
**Report Date:** 07/31/15

## Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-03 Batch: WG805567-1									
Iron, Total	ND	mg/l	0.0500	0.0120	1	07/24/15 07:53	07/24/15 11:06	1,6020A	KL
Manganese, Total	ND	mg/l	0.00100	0.00030	1	07/24/15 07:53	07/24/15 11:06	1,6020A	KL

### Prep Information

Digestion Method: EPA 3005A

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517226  
**Report Date:** 07/31/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG805567-2								
Iron, Total	92		-		80-120	-		
Manganese, Total	96		-		80-120	-		

### Matrix Spike Analysis Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517226  
**Report Date:** 07/31/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG805567-4 QC Sample: L1515003-90 Client ID: MS Sample												
Iron, Total	34.0	1	30.7	0	Q	-	-		75-125	-		20
Manganese, Total	0.9925	0.5	1.416	85		-	-		75-125	-		20

## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517226  
**Report Date:** 07/31/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG805567-3 QC Sample: L1515003-90 Client ID: DUP Sample						
Iron, Total	34.0	30.4	mg/l	11		20
Manganese, Total	0.9925	1.021	mg/l	3		20

# **INORGANICS & MISCELLANEOUS**

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517226  
**Report Date:** 07/31/15

**SAMPLE RESULTS**

**Lab ID:** L1517226-01  
**Client ID:** MW-6B-72315  
**Sample Location:** 140 CORTLAND AVE, SYRACUSE, NY  
**Matrix:** Water

**Date Collected:** 07/23/15 10:25  
**Date Received:** 07/23/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Alkalinity, Total	528.		mg CaCO3/L	2.00	NA	1	-	07/24/15 08:38	30,2320B	SG
Nitrogen, Nitrate	0.056	J	mg/l	0.10	0.019	1	-	07/24/15 22:14	44,353.2	MR
Total Organic Carbon	13.		mg/l	5.0	1.1	10	-	07/27/15 07:32	1,9060A	DW
<b>Anions by Ion Chromatography - Westborough Lab</b>										
Sulfate	68.1		mg/l	1.00	0.051	1	-	07/28/15 17:28	44,300.0	AU



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517226  
**Report Date:** 07/31/15

**SAMPLE RESULTS**

**Lab ID:** L1517226-02  
**Client ID:** MW-6C-72315  
**Sample Location:** 140 CORTLAND AVE, SYRACUSE, NY  
**Matrix:** Water

**Date Collected:** 07/23/15 12:50  
**Date Received:** 07/23/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Alkalinity, Total	309.		mg CaCO3/L	2.00	NA	1	-	07/24/15 08:38	30,2320B	SG
Nitrogen, Nitrate	0.031	J	mg/l	0.10	0.019	1	-	07/24/15 22:15	44,353.2	MR
Total Organic Carbon	3.0		mg/l	2.5	0.57	5	-	07/27/15 07:32	1,9060A	DW
<b>Anions by Ion Chromatography - Westborough Lab</b>										
Sulfate	719.		mg/l	50.0	2.59	50	-	07/28/15 19:52	44,300.0	AU



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517226  
**Report Date:** 07/31/15

**SAMPLE RESULTS**

**Lab ID:** L1517226-03  
**Client ID:** EQUIPMENT BLANK-001  
**Sample Location:** 140 CORTLAND AVE, SYRACUSE, NY  
**Matrix:** Water

**Date Collected:** 07/23/15 14:55  
**Date Received:** 07/23/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	07/24/15 08:38	30,2320B	SG
Nitrogen, Nitrate	0.050	J	mg/l	0.10	0.019	1	-	07/24/15 22:16	44,353.2	MR
Total Organic Carbon	0.20	J	mg/l	0.50	0.11	1	-	07/24/15 07:35	1,9060A	DW
<b>Anions by Ion Chromatography - Westborough Lab</b>										
Sulfate	0.622	J	mg/l	1.00	0.051	1	-	07/28/15 17:52	44,300.0	AU



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517226  
**Report Date:** 07/31/15

**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): 03 Batch: WG805620-1										
Total Organic Carbon	ND		mg/l	0.50	0.11	1	-	07/24/15 07:35	1,9060A	DW
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG805651-1										
Total Organic Carbon	ND		mg/l	0.50	0.11	1	-	07/27/15 07:32	1,9060A	DW
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG805698-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	07/24/15 08:38	30,2320B	SG
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG805842-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.019	1	-	07/24/15 22:05	44,353.2	MR
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-03 Batch: WG806840-1										
Sulfate	ND		mg/l	1.00	0.051	1	-	07/28/15 16:52	44,300.0	AU

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST

**Lab Number:** L1517226

**Project Number:** 21.0056730.40

**Report Date:** 07/31/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG805620-2								
Total Organic Carbon	99		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG805651-2								
Total Organic Carbon	98		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG805698-3								
Alkalinity, Total	106		-		90-110	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG805842-2								
Nitrogen, Nitrate	104		-		90-110	-		
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-03 Batch: WG806840-2								
Sulfate	99		-		90-110	-		

### Matrix Spike Analysis Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517226  
**Report Date:** 07/31/15

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): 03 QC Batch ID: WG805620-4 QC Sample: L1517008-02 Client ID: MS Sample												
Total Organic Carbon	29.J	800	860	107	-	-	-	-	80-120	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG805651-4 QC Sample: L1517149-01 Client ID: MS Sample												
Total Organic Carbon	22.	160	190	103	-	-	-	-	80-120	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG805698-4 QC Sample: L1517151-01 Client ID: MS Sample												
Alkalinity, Total	56.2	100	157	101	-	-	-	-	86-116	-	-	10
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG805842-4 QC Sample: L1517249-01 Client ID: MS Sample												
Nitrogen, Nitrate	0.22	4	4.4	104	-	-	-	-	83-113	-	-	6
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG806840-3 QC Sample: L1517226-01 Client ID: MW-6B-72315												
Sulfate	68.1	8	73.7	70	-	-	-	-	60-140	-	-	20

## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517226  
**Report Date:** 07/31/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG805620-3 QC Sample: L1517008-01 Client ID: DUP Sample						
Total Organic Carbon	34.J	25.J	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG805651-3 QC Sample: L1517149-01 Client ID: DUP Sample						
Total Organic Carbon	22.	22	mg/l	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG805698-2 QC Sample: L1517151-01 Client ID: DUP Sample						
Alkalinity, Total	56.2	56.4	mg CaCO3/L	0		10
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG805842-3 QC Sample: L1517249-01 Client ID: DUP Sample						
Nitrogen, Nitrate	0.22	0.22	mg/l	0		6
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG806840-4 QC Sample: L1517226-01 Client ID: MW-6B-72315						
Sulfate	68.1	67.9	mg/l	0		20

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517226  
**Report Date:** 07/31/15

### Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

#### Cooler Information Custody Seal

##### Cooler

A Absent

#### Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1517226-01A	Vial H2SO4 preserved	A	N/A	4.6	Y	Absent	TOC-9060(28)
L1517226-01B	Vial H2SO4 preserved	A	N/A	4.6	Y	Absent	TOC-9060(28)
L1517226-01C	20ml Vial HCl preserved	A	N/A	4.6	Y	Absent	DISSGAS(14)
L1517226-01D	20ml Vial HCl preserved	A	N/A	4.6	Y	Absent	DISSGAS(14)
L1517226-01E	Plastic 250ml HNO3 preserved	A	<2	4.6	Y	Absent	FE-6020T(180),MN-6020T(180)
L1517226-01F	Plastic 120ml unpreserved w/No H	A	N/A	4.6	Y	Absent	ALK-T-2320(14)
L1517226-01G	Plastic 250ml unpreserved	A	7	4.6	Y	Absent	SO4-300(28),NO3-353(2)
L1517226-02A	Vial H2SO4 preserved	A	N/A	4.6	Y	Absent	TOC-9060(28)
L1517226-02B	Vial H2SO4 preserved	A	N/A	4.6	Y	Absent	TOC-9060(28)
L1517226-02C	20ml Vial HCl preserved	A	N/A	4.6	Y	Absent	DISSGAS(14)
L1517226-02D	20ml Vial HCl preserved	A	N/A	4.6	Y	Absent	DISSGAS(14)
L1517226-02E	Plastic 250ml HNO3 preserved	A	<2	4.6	Y	Absent	FE-6020T(180),MN-6020T(180)
L1517226-02F	Plastic 120ml unpreserved w/No H	A	N/A	4.6	Y	Absent	ALK-T-2320(14)
L1517226-02G	Plastic 250ml unpreserved	A	7	4.6	Y	Absent	SO4-300(28),NO3-353(2)
L1517226-03A	Vial H2SO4 preserved	A	N/A	4.6	Y	Absent	TOC-9060(28)
L1517226-03B	Vial H2SO4 preserved	A	N/A	4.6	Y	Absent	TOC-9060(28)
L1517226-03C	20ml Vial HCl preserved	A	N/A	4.6	Y	Absent	DISSGAS(14)
L1517226-03D	20ml Vial HCl preserved	A	N/A	4.6	Y	Absent	DISSGAS(14)
L1517226-03E	Plastic 250ml HNO3 preserved	A	<2	4.6	Y	Absent	FE-6020T(180),MN-6020T(180)
L1517226-03F	Plastic 120ml unpreserved w/No H	A	N/A	4.6	Y	Absent	ALK-T-2320(14)
L1517226-03G	Plastic 250ml unpreserved	A	7	4.6	Y	Absent	SO4-300(28),NO3-353(2)

\*Values in parentheses indicate holding time in days

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517226  
**Report Date:** 07/31/15

## 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.
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.
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### 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

<b>A</b>	- Spectra identified as "Aldol Condensation Product".
<b>B</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).
<b>C</b>	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517226  
**Report Date:** 07/31/15

#### Data Qualifiers

- 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.

**Project Name:** COYNE TEXTILE SERVICES-MW INST  
**Project Number:** 21.0056730.40

**Lab Number:** L1517226  
**Report Date:** 07/31/15

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 117 Technical Guidance for the Natural Attenuation Indicators: Methane, Ethane, and Ethene, EPA-NE, Revision 1, February 21, 2002 and Sample Preparation & Calculations for Dissolved Gas Analysis in Water Samples using a GC Headspace Equilibration Technique, EPA RSKSOP-175, Revision 2, May 2004.

## 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

Last revised December 16, 2014

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### The following analytes are not included in our NELAP Scope of Accreditation:

#### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

#### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**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.

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### 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,Tl; **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,Tl,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.

 <b>NEW YORK CHAIN OF CUSTODY</b> Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	<b>Mansfield, MA 02048</b> 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	<b>Service Centers</b> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page of	Date Rec'd in Lab 7/24/15	ALPHA Job # L1517226																
		<b>Project Information</b> Project Name: <u>Cayne Textile Services - MW Installation</u> Project Location: <u>140 Cortland Ave. Syracuse, NY 13202</u> Project # <u>21.005673040</u> (Use Project name as Project #) <input type="checkbox"/>		<b>Deliverables</b> <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input checked="" type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		<b>Billing Information</b> <input type="checkbox"/> Same as Client Info PO #															
<b>Client Information</b> Client: <u>GEA Environmental</u> Address: <u>535 Washington St 11th Floor</u> <u>Buffalo, NY 14203</u> Phone: <u>716-685-2300</u> Fax: <u>716-685-3029</u> Email: <u>thomas.bohlen@gea.com</u>		<b>Regulatory Requirement</b> <input checked="" type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		<b>Disposal Site Information</b> Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:																	
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments:		<b>Turn-Around Time</b> Standard <input type="checkbox"/> Due Date: <u>7/24/15</u> Rush (only if pre approved) <input checked="" type="checkbox"/> <u>URG ONLY</u> # of Days: <u>1</u>		<b>ANALYSIS</b> <table border="1" style="width:100%; border-collapse: collapse; font-size: small;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">VOC 6060</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Dissolved Gases PSE 175</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Acidic Carbon</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Fe &amp; Mn</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Alkalinity - Total</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Sulfate - Free</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Nitrate - Free</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Nitrite - Free</td> </tr> <tr> <td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td> </tr> </table>		VOC 6060	Dissolved Gases PSE 175	Total Acidic Carbon	Total Fe & Mn	Alkalinity - Total	Sulfate - Free	Nitrate - Free	Nitrite - Free	X	X	X	X	X	X	X	X
VOC 6060	Dissolved Gases PSE 175	Total Acidic Carbon	Total Fe & Mn	Alkalinity - Total	Sulfate - Free	Nitrate - Free	Nitrite - Free														
X	X	X	X	X	X	X	X														
Please specify Metals or TAL.		<b>Sample Filtration</b> <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please Specify below)		<b>Sample Specific Comments</b>																	
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials																
<u>17226 - 01</u>	<u>MW-6B-72315</u>	<u>7/23/15</u>	<u>1025</u>	<u>Aqueous</u>	<u>PCF</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>									
<u>- 02</u>	<u>MW-6C-72315</u>	<u>7/23/15</u>	<u>1250</u>	<u>↓</u>	<u>PCF</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>									
<u>- 03</u>	<u>Equipment Blank-001</u>	<u>7/23/15</u>	<u>1455</u>	<u>↓</u>	<u>PCF</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>									
<u>- 04</u>	<u>Trip Blank-009-72315</u>	<u>7/23/15</u>		<u>↓</u>		<u>X</u>															
Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type V V V P P P P		Preservative B B D C O A A		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)											
Relinquished By:		Date/Time		Received By:		Date/Time															
<u>Patrick Finney</u>		<u>7/23/15 1615</u>		<u>Thomas AAL</u>		<u>7/23/15 1615</u>															
<u>Thomas AAL</u>		<u>7/23/15 2000</u>		<u>Thomas AAL</u>		<u>7/23/15 2000</u>															
<u>Thomas AAL</u>		<u>7/23/15 2000</u>		<u>Thomas AAL</u>		<u>7/23/15 2000</u>															
<u>Jim Conroy</u>		<u>7/24/15 01:20</u>		<u>Jim Conroy</u>		<u>7/24/15 01:20</u>															
<u>Sh</u>		<u>7/24/15 04:00</u>		<u>Mansfield Lab</u>		<u>7/24/15 04:00</u>															



**NEW YORK CHAIN OF CUSTODY**

Westborough, MA 01581  
8 Walkup Dr.  
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FAX: 508-898-9193

Mansfield, MA 02048  
320 Forbes Blvd  
TEL: 508-822-9300  
FAX: 508-822-3288

**Service Centers**  
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5  
Albany, NY 12205: 14 Walker Way  
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page

of

Date Rec'd in Lab

7/24/15

ALPHA Job #

L1517226

**Project Information**

Project Name: *Cayne Textile Services - MW Installation*

Project Location: *140 Cortland Ave. Syracuse, NY 13202*

Project # *21.0056730.40*

(Use Project name as Project #)

Project Manager: *Tom Bohlen*

ALPHAQuote #:

**Turn-Around Time**

Standard

Due Date: *7/24/15*

Rush (only if pre approved)  *VOCs ONLY* # of Days: *1*

**Deliverables**

ASP-A

ASP-B

EQUIS (1 File)

EQUIS (4 File)

Other

**Billing Information**

Same as Client Info

PO #

**Client Information**

Client: *GZA GeoEnvironmental*

Address: *935 Washington St 11th Floor Buffalo, NY 14203*

Phone: *716-685-2300*

Fax: *716-685-3029*

Email: *thomas.bohlen@gza.com*

**Regulatory Requirement**

NY TOGS

NY Part 375

AWQ Standards

NY CP-51

NY Restricted Use

Other

NY Unrestricted Use

NYC Sewer Discharge

**Disposal Site Information**

Please identify below location of applicable disposal facilities.

Disposal Facility:

NJ

NY

Other:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

**ANALYSIS**

VOC 8260	Dissolved Gases PSE 175	Total Organic Carbon 9865	Total Fe ± Mn-500	Alkalinity - 30.1	Sulfate - 300	Nitrate - 353.2
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**Sample Filtration**

Done  
 Lab to do  
**Preservation**  
 Lab to do

(Please Specify below)

Sample Specific Comments

Total Bottles

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS							Sample Specific Comments
		Date	Time			VOC 8260	Dissolved Gases PSE 175	Total Organic Carbon 9865	Total Fe ± Mn-500	Alkalinity - 30.1	Sulfate - 300	Nitrate - 353.2	
17226-01	MW-6B-72315	7/23/15	1025	Aqueous	PCF	X	X	X	X	X	X	X	
-02	MW-6C-72315	7/23/15	1250	↓	PCF	X	X	X	X	X	X	X	
-03	Equipment Blank-001	7/23/15	1455	↓	PCF	X	X	X	X	X	X	X	
-04 7/23/15	Trip Blank-009-72315	7/23/15		↓		X							

**Preservative Code:**

- A = None
- B = HCl
- C = HNO<sub>3</sub>
- D = H<sub>2</sub>SO<sub>4</sub>
- E = NaOH
- F = MeOH
- G = NaHSO<sub>4</sub>
- H = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>
- K/E = Zn Ac/NaOH
- O = Other

**Container Code**

- P = Plastic
- A = Amber Glass
- V = Vial
- G = Glass
- B = Bacteria Cup
- C = Cube
- O = Other
- E = Encore
- D = BOD Bottle

Westboro: Certification No: MA935

Mansfield: Certification No: MA015

**Container Type**

V V V P P P P

**Preservative**

B B D C O A A

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Relinquished By:	Date/Time	Received By:	Date/Time
<i>Patrick Finnerty</i>	<i>7/23/15 1615</i>	<i>D. Dorman</i>	<i>7/23/15 1615</i>
<i>D. Dorman</i>	<i>7/23/15 2000</i>	<i>J. Finnerty</i>	<i>7/23/15 2000</i>
<i>J. Finnerty</i>	<i>7/23/15 2240</i>	<i>Jim Conroy</i>	<i>7/23/15 2240</i>
<i>Jim Conroy</i>	<i>7/24/15 01:20</i>	<i>all</i>	<i>7/24/15 01:20</i>

# SITE LOGIC Report

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## *Abiotic Potential*

**Contact:** Tom Bohlen  
**Address:** GZA GeoEnvironmental, Inc.  
535 Washington St., 11<sup>th</sup> Floor  
Buffalo, NY 14203

**Phone:** (716) 685-2300

**Email:** Thomas.Bohlen@gza.com

**MI Identifier:** 091MG

**Report Date:** 07/30/2015

**Project Name:** Cayne Textile - Offsite MW Installation

**Comments:**

## Overview

Although not always fully considered, abiotic degradation can be a substantial or even the primary process for chlorinated hydrocarbon destruction at sites undergoing or transitioning to monitored natural attenuation (MNA). A variety of iron-bearing minerals including iron sulfides (mackinawite and pyrite), iron oxides (magnetite), green rust, and iron-bearing clays are capable of complete or nearly complete degradation of PCE, TCE, and carbon tetrachloride (He et al. 2009). Some iron-bearing minerals also catalyze the degradation of chlorinated ethanes and the lesser chlorinated ethenes cis-dichloroethene (DCE) and vinyl chloride. While the quantities and types will vary, these reactive iron minerals are frequently identified in subsurface environments under iron reducing and sulfate reducing conditions.

Brown et al. (2007) recommend four avenues for evaluating the role of abiotic processes in contaminant attenuation. First, examining contaminant concentrations along the flow path - decreasing parent compound concentrations with no evidence of accumulation of chlorinated transformation products like cis-DCE and vinyl chloride suggest abiotic degradation. Performing compound specific isotope analysis (CSIA) or monitoring for products unique to abiotic reactions such as acetylene can also provide a strong line of evidence. Microcosm studies with native sediment and killed controls can also be performed. Finally, Brown et al. (2007) suggest performing mineralogical analyses on aquifer sediment to characterize reactive minerals such as magnetite or iron monosulfides.

### **Magnetic Susceptibility – Magnetite**

Magnetite ( $\text{Fe}_3\text{O}_4$ ) is a mixed valence iron mineral shown to react with PCE, TCE, and carbon tetrachloride. Furthermore, Ferrey et al. (2004) conclusively linked the observed degradation of cis-DCE at a former ammunition plant to magnetite in the subsurface. No direct chemical test is available for quantification of magnetite. However, magnetite is the most abundant mineral in natural sediments that exhibits magnetic behavior. Therefore, magnetic susceptibility provides an inexpensive and valuable estimate of the quantity of magnetite in environmental samples.

### **X-ray Diffraction (XRD) – Mackinawite, Pyrite, Magnetite and Green Rust**

XRD is one of the primary techniques used to identify unknown crystalline materials. Most minerals are crystalline and will scatter X-rays in a regular, characteristic manner dependent on their crystal structure.

- Mackinawite is the most reactive of the iron-bearing minerals and a crystalline form (tetragonal FeS) can be detected by XRD. Mackinawite will transform PCE and TCE primarily by elimination to acetylene. Carbon tetrachloride is transformed mainly to chloroform but carbon dioxide, formate, and carbon disulfide have also been detected. Finally, the more heavily chlorinated ethanes including hexachloroethane, pentachloroethane, and tetrachloroethanes react to form chlorinated ethenes which can be further degraded.
- Pyrite ( $\text{FeS}_2$ ) catalyzes beta elimination transforming PCE, TCE, and cis-DCE to acetylene and ethene. Vinyl chloride is transformed to ethene and ethane. Pyrite is also capable of degradation of carbon tetrachloride potentially forming a number of products including chloroform, carbon dioxide, carbon disulfide, and formate depending on reaction conditions.
- While not quantitative like the magnetic susceptibility test, XRD can also detect magnetite when present at between 2% and 5% on a weight basis.
- Green rusts have been reported to transform a number of common chlorinated contaminants including cis-DCE, vinyl chloride, trichloroethanes, and tetrachloroethanes. While special sample care to prevent oxidation would be needed, XRD can be used to detect green rust.

### **Percent Clay**

Clays have large surface areas, balanced by exchangeable cations, which can bind a large number of both organic and inorganic molecules impacting their availability and reactivity in the subsurface. While less well studied than the other iron-bearing minerals, various phyllosilicate clays have been shown to be capable of degradation of PCE, TCE, cis-DCE, vinyl chloride, and carbon tetrachloride.

## Results

**Table 1.** Summary of the magnetic susceptibility results for solid samples.

Sample Location	MW-4-10-20	MW-567-Shallow	MW-567-Medium	MW-567-Deep
Sample Type	Solid	Solid	Solid	Solid
<b>Magnetic Susceptibility Analysis</b>				
Magnetic Susceptibility (m <sup>3</sup> /kg)	<b>1.45E-06</b> ± 3.75E-07	<b>4.09E-07</b> ± 4.90E-08	<b>8.29E-07</b> ± 4.75E-09	<b>4.75E-07</b> ± 4.65E-09

## References

- Brown, R. A., J. T. Wilson and M. Ferrey (2007). "Monitored natural attenuation forum: The case for abiotic MNA." Remediation Journal **17**(2): 127-137.
- Ferrey, M. L., R. T. Wilkin, R. G. Ford and J. T. Wilson (2004). "Nonbiological Removal of cis-Dichloroethylene and 1,1-Dichloroethylene in Aquifer Sediment Containing Magnetite." Environmental Science & Technology **38**(6): 1746-1752.
- He, Y., C. Su, J. T. Wilson, R. T. Wilkin, C. Adair, T. Lee, P. Bradley and M. Ferrey (2009). Identification and characterization of methods for reactive minerals responsible for natural attenuation of chlorinated organic compounds in ground water, US EPA.
- Liu, Y., S. A. Majetich, R. D. Tilton, D. S. Sholl and G. V. Lowry (2005). "TCE Dechlorination Rates, Pathways, and Efficiency of Nanoscale Iron Particles with Different Properties." Environmental Science & Technology **39**(5): 1338-1345.
- Song, H. and E. R. Carraway (2005). "Reduction of Chlorinated Ethanes by Nanosized Zero-Valent Iron: Kinetics, Pathways, and Effects of Reaction Conditions." Environmental Science & Technology **39**(16): 6237-6245.

**Abiotic Reactions of Chlorinated Compounds with Iron Bearing Minerals and Zero Valent Iron (ZVI).** Summaries for iron bearing minerals are based on He et al. (2009) and references therein. He et al. available at <http://nepis.epa.gov/>. Summary of ZVI based on Liu et al. (2005) and Song et al. (2005).

Contaminant	Mineral	Degradation	Reported Degradation Intermediates and Products <sup>1</sup>
PCE	FeS	Yes	Acetylene, TCE, cis-DCE, 1,1-DCE, ethene
	Pyrite	Yes	TCE, acetylene, ethene
	Magnetite	Yes	Unknown <sup>2</sup>
	<sup>3</sup> GR(SO <sub>4</sub> )	Reports Differ	
	phyllosilicate clays	Yes	TCE, 1,1-DCE, vinyl chloride, 1,1,2-TCA, 1,1-DCA, chloroacetylene, acetylene, ethene, ethane
	ZVI	Yes	Ethene and ethane
TCE	FeS	Yes	Acetylene, cis-DCE, vinyl chloride, 1,1-DCE
	Pyrite	Yes	Acetylene, ethene, cis-DCE, (organic acids with DO present)
	Magnetite	Yes	Unknown <sup>1</sup>
	GR(SO <sub>4</sub> ), GR(CO <sub>3</sub> )	No	Only observed degradation when Cu(II) added
	phyllosilicate clays	Yes	cDCE, vinyl chloride, acetylene, ethene, ethane
	ZVI	Yes	Ethane, ethene, acetylene with minor amounts of DCE, VC depending on conditions
cis-DCE	FeS	No	None detected
	Pyrite	Yes	Acetylene, ethene
	Magnetite	Yes	Unknown <sup>2</sup>
	GR(SO <sub>4</sub> )	Yes	
	phyllosilicate clays	Yes	
	ZVI	Yes	Primarily acetylene and ethene but also much lesser amounts of ethane and VC and traces of methane, propane, propene, butane and butene
Vinyl chloride	FeS	Unknown	
	Pyrite	Yes	Ethene, ethane
	Magnetite	Yes	Unknown <sup>2</sup>
	GR(SO <sub>4</sub> )	Yes	
	phyllosilicate clays	Yes	
	ZVI	Yes	Ethene, ethane, (no evidence of acetylene)

Contaminant	Mineral	Degradation	Reported Degradation Intermediates and Products <sup>1</sup>
1,1-DCA	FeS	Not Significant	None detected
1,1-DCA	GR(SO <sub>4</sub> )	Low conversion	Ethene and ethane (w/ Cu or Ag)
1,1-DCA	ZVI	Yes (low)	Ethane
1,2-DCA	FeS	Not Significant	None detected
1,2-DCA	FeS (Biogenic)	Yes	Not monitored
1,2-DCA	GR(SO <sub>4</sub> )	No	
1,2-DCA	ZVI	No	
1,1,1-TCA	FeS	Yes	1,1-DCA, ethene, 2-butyne
1,1,1-TCA	GR(SO <sub>4</sub> )	Yes	1,1-DCA, CA, ethene ethane
1,1,1-TCA	ZVI	Yes	1,1-DCA, ethane
1,1,2-TCA	FeS	Rate not significant	Small amounts of 1,1-DCE and vinyl chloride but rate not significant
1,1,2-TCA	GR(SO <sub>4</sub> )	Yes	Vinyl chloride, 1,1-DCE, ethene, ethane
1,1,2-TCA	ZVI	Yes	Ethane
1,1,1,2-TeCA	FeS	Yes	1,1-DCE
1,1,1,2-TeCA	GR(SO <sub>4</sub> )	Yes	1,1-DCE and minor (<1%) vinyl chloride, ethene, ethane
1,1,1,2-TeCA	phyllosilicate clays	Yes	1,1-DCE
1,1,1,2-TeCA	ZVI	Yes	TCE, 1,1-DCE
1,1,2,2-TeCA	FeS	Yes	TCE, cis-DCE, trans-DCE, acetylene
1,1,2,2-TeCA	GR(SO <sub>4</sub> )	Yes	TCE (major), cis-DCE, trans-DCE
1,1,2,2-TeCA	phyllosilicate clays	Yes	TCE
1,1,2,2-TeCA	ZVI	Yes	TCE, trans-DCE, cis-DCE
Carbon Tetrachloride	FeS	Yes	Chloroform, carbon disulfide, possibly methane, ethene, ethane
CT	Pyrite	Yes	Chloroform, CO <sub>2</sub> , carbon disulfide, formate (highly dependent on conditions)
CT	Magnetite	Yes	Chloroform, carbon monoxide, methane, formate (highly dependent on conditions)
CT	GR(SO <sub>4</sub> )	Yes	Chloroform and hexachloroethane; Chloroform, DCM, methane, ethene
CT	phyllosilicate clays	Yes	Chloroform
CT	ZVI	Yes	Chloroform, dichloromethane, methane (depending on conditions)

**Notes:** GR(SO<sub>4</sub>) sulfate green rust. GR(CO<sub>3</sub>) carbonate green rust. ZVI zero valent iron

<sup>1</sup>Compilation of reported degradation products. Mass recovery of products typically low - additional undetected and unreported products are likely. Reported reaction products or proportions of reaction products were often a function of environmental conditions.

<sup>2</sup>No published studies that identify the transformation products of PCE, TCE, cis-DCE or vinyl chloride with magnetite. Ferrey et al (2004) analyzed for products of cis-DCE dechlorination including vinyl chloride, ethene, and ethane and did not find them. If Fe<sup>2+</sup> sorbed to magnetite stabilizes carbene ions, the ultimate degradation product of cis-DCE on magnetite would be CO<sub>2</sub>.

**REPORT TO:**

Name: Tom Bohlen / Todd Bown  
 Company: GZA GeoEnvironmental, Inc  
 Address: 525 Washington St 11th Floor  
Buffalo, NY 14203

email: thomas.bohlen@gza.com / todd.bown@gza.com  
 Phone: 716-685-2308  
 Fax: 716-685-3629

Project Manager: Tom Bohlen  
 Project Name: Cayne Textile - Offsite MW Installation  
 Project No.: 21.0056730.40

**INVOICE TO:** (For Invoices paid by a third party it is imperative that all information be provided)

Name: (Same as Report To)  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_

email: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_

Purchase Order No. 21.0056730.40  
 Subcontract No. \_\_\_\_\_  
 MI Quote No. \_\_\_\_\_



10515 Research Dr  
 Knoxville, TN 37932  
 865-573-8188

www.microbe.com

**Please Check One:**  
 More samples to follow  
 No Additional Samples

Report Type:  Standard (default)     Microbial Insights Level III raw data(15% surcharge)     Microbial Insights Level IV (25% surcharge)     Comprehensive Interpretive(15%)     Historical Interpretive (35%)  
 EDD type:  Microbial Insights Standard (default)     All other available EDDs (5% surcharge)    Specify EDD Type: \_\_\_\_\_

Please contact us with any questions about the analyses or filling out the COC at (865) 573-8188 (9:00 am to 5:00 pm EST, M-F). After hours email: customerservice@microbe.com

Sample Information					Analyses				CENSUS: Please select the target organism/gene																										
MI ID <small>(Laboratory Use Only)</small>	Sample Name	Date Sampled	Time Sampled	Matrix	PLFA	Magnetic Susceptibility	DGGE+5ID	QuantArray Chlor	QuantArray Petro	DHC (Dehalococoides)	DHC Functional genes (bvc, tcc, vcr)	DHBI (Dehalobacter)	DSM (Desulfuromonas)	DSB (Desulfobacterium)	EBAC (Total)	SRB (Sulfate Reducing Bacteria-APS)	MGN (Methanogens)	MOB (Methanotrophs)	SMMO	DNF (Denitrifiers-nirS and nirK)	AOB (ammonia oxidizing bacteria)	PM1 (MTBE aerobic)	RMO (Toluene Monooxygenase)	RDEG (Toluene Monooxygenase)	PHE (Phenol Hydroxylase)	NAH (Naphthalene-aerobic)	BSSA (Toluene/Xylene-Anaerobic)	add. qPCR: abcA	add. qPCR:	RNA (Expression Option)*	Other:	Other:	Other:		
091MG1	MW-4-10-20	7/16/15	0845	Soil		X																													
2	MW-567-Shallow	7/16/15	1030	Soil		X																													
3	MW-567-Medium	7/16/15	1050	Soil		X																													
4	MW-567-Deep	7/16/15	1110	Soil		X																													

Relinquished by: Patrick Finnerly

Received by: [Signature] Date: 7/29/15

It is vital that chain of custody is filled out correctly & that all relative information is provided.  
 Failure to provide sufficient and/or correct information regarding reporting, invoicing & analyses requested information may result in delays for which MI will not be liable.