NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road, Avon, NY 14414-9516
P: (585) 226-5353 I F: (585) 226-8139
www.dec.ny.gov

Southpoint Cove LLC
Robert Morgan
1080 Pittsford Victor Road
Pittsford, NY 14534

Re: Site Management (SM) Periodic Review Report (PRR) Response Letter

1440 Empire Boulevard, Penfield
Monroe County, Site No.: C828135

Dear Robert Morgan (as the Certifying Party):

The Department has reviewed your Periodic Review Report (PRR) and IC/EC Certification for following period: 07/16/2015 to 07/16/2016.

The Department hereby accepts the PRR and associated Certification. The frequency of Periodic Reviews for this site is 1 year(s), your next PRR is due on August 15, 2017. You will receive a reminder letter and updated certification form 45-days prior to the due date.

If you have any questions, or need additional forms, please contact me at 585-295-5349 or e-mail: danielle.miles@dec.ny.gov.

Sincerely,

Danielle Miles
Project Manager

ec:
Melissa Dorosky, NYSDOH
Michael Spoleta, Spoleta Construction
Peter Morton, Ravi Engineering
Lynn Zicari, Ravi Engineering
Bernette Schilling, NYSDEC

Enclosure 2

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

Site Details **Box 1**

Site No. **C828135**

Site Name **1440 Empire Boulevard**

Site Address: 1440 Empire Boulevard Zip Code: 14580
City/Town: Penfield
County: Monroe
Site Acreage: 4.7

Reporting Period: July 16, 2015 to July 16, 2016

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☒	☐

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☒	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

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

Signature of Owner, Remedial Party or Designated Representative

7/7/16
Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☒

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☒	☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C828135 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
108.06-1-8.2	Southpoint Cove LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Building Use Restriction Site Management Plan IC/EC Plan

Imposition of an institutional control in the form of an environmental easement for the controlled property that:
-requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
-allows the use and development of the controlled property for restricted residential, commercial and industrial uses as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
-restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH;
-requires compliance with the Department approved Site Management Plan.

A Site Management Plan is required, which includes the following:
-an Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective:
Institutional Controls: Environmental Easement
Engineering Controls: The soil cover system.
This plan includes, but may not be limited to:
-an Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination;
-provisions for the management and inspection of the identified engineering controls; and
-the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
108.06-1-8.2	Cover System

A site cover currently exists and will be maintained to allow for restricted residential use of the site. Any site redevelopment will maintain a site cover, which may consist either of the structures such as buildings, pavement, sidewalks comprising the site development or a soil cover in areas where the upper two feet of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs). Where a soil cover is required it will be a minimum

Parcel	Engineering Control
	of two feet of soil, meeting the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d) for restricted residential use. The soil cover will be placed over a demarcation layer, with the upper six inches of the soil of sufficient quality to maintain a vegetation layer. Any fill material brought to the site will meet the requirements for the identified site use as set forth in 6 NYCRR Part 375-6.7(d).

Box 5

Periodic Review Report (PRR) Certification Statements

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

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

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted

YES	NO
☒	☐

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

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

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

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

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

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

YES	NO
☒	☐

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

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

Signature of Owner, Remedial Party or Designated Representative

7/7/16
Date

IC CERTIFICATIONS
SITE NO. C828135

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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

I Jess D. Sudol, PE (print name) at Passero Associates (print business address),

am certifying as Designated Representative (Owner or Remedial Party)

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

Jess Sudol — 7/6/16

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

IC/EC CERTIFICATIONS

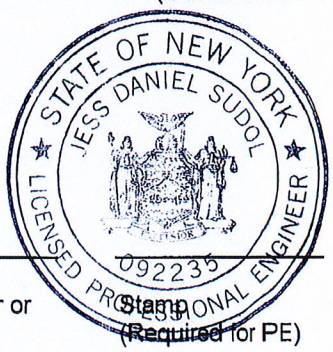
Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Jess D. Sudol, PE (print name) at Passero Associates (print business address),

am certifying as a Professional Engineer for the Owner (Owner or Remedial Party)



Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

7/6/16

Date

RAVI ENGINEERING & LAND SURVEYING, P.C.

Technical Memorandum

To: Danielle Miles, P. E.
NYSDEC Division of Environmental Remediation
From: Lynn Zicari
Ravi Engineering and Land Surveying, P.C.
Date: September 29, 2016
Project: 1440 Empire Blvd_C828135 Site Management
Subject: Periodic Review Report

This report summarizes Site Management Plan activities for BCP Site No. C828135 completed from July 1, 2015 to July 1, 2016. The work included the excavation of two entire building footprints (Buildings 7 & 8) and a portion of one building (Building 9) to final grade, and installation of footers and foundations.

RE&LS was onsite whenever the soil cover system was breeched to provide oversight, CAMP (Community Air-Monitoring Plan) monitoring, and soil screening with a photoionizing detector (PID).

- Oct 21-23, 2015 — CAMP Monitoring and soil screening were provided for excavation of Building 9 (the small portion within BCP limits). Approximately 1000 cubic yards (cy) soil was generated: 700 cy of soils containing ash and debris were segregated for disposal, and the remaining 300 cy was staged for potential reuse onsite.
- Jan 20, 2016 — CAMP Monitoring and soil screening was provided during the relocation of the soils generated during the utility installation in 2014 (approximately 868 cy). The utility pile soils were moved and staged for potential reuse onsite.
- Jan 26-27 & Jan 29, 2016 — CAMP Monitoring and oversight was provided for the Building 7 excavation. Approximately 2500 cy of soil was generated and staged for potential reuse, and 200 cy segregated for disposal.
- Feb 4-5, 2016 — Building 9 segregated soils generated on 10/21-23/15 were hauled offsite for disposal.
- Feb 5, 2016 — CAMP Monitoring and oversight was provided for continued excavation of Building 7. Approximately 700 cy of soil generated for potential reuse, and approximately 70 cy segregated for disposal.

- Feb 12, 2016 — CAMP Monitoring and oversight were provided for excavation of Building 7. Approximately 550 cy of soil was segregated for disposal. Soil samples were collected from the segregated soil pile and from the piles intended for onsite reuse

- Mar 15-16
Mar 21 & 23 — CAMP Monitoring and oversight were provided for continued excavation of Building 7. Approximately 729 cy of soil was generated and staged for potential reuse onsite.

- Apr 11-15, 2016 — CAMP Monitoring and oversight was provided for excavation of Building 8. Samples were collected from staged piles for reuse onsite.

During BCP, if not already moist from natural conditions, the soils were wetted to prevent fugitive dust migration. At no time were there any visible emissions from contaminated soils, though emissions were observed from the cover soils or clean soil piles. There were no other issues involving Site work.

3/15/16

Subject: Building 7 excavation summary

- RAVI was on site during the excavation of contaminated soils from beneath the cover system in the building 7 footprint on January 20, 26, 27, 29, February 5, 8, and 12, 2016. CAMP monitoring was performed whenever we were onsite, and continued until intrusive activities were complete for the day. Soils were screened with a photoionization detector (PID) for volatile organic compound (VOC) vapors.

- Soils were segregated and sampled based on appearance, odor, or PID readings:

Soils that were stained, had elevated PID readings, petroleum odors, or contained solid waste other than brick, block, or glass were staged on plastic for disposal. Approximately 525 cubic yards (CYs) of soil and fill materials were sampled for disposal and removed from the Site on February 4 and 5, 2016.

Clean-appearing soils were staged separately from the above soils, and sampled for reuse in accordance with DER 10 Table 5.4(e)10. Soils for potential reuse were staged as four discreet piles, but sampled as one waste stream. The total volume of soil generated was 4037 CYs.

- Sample methodology:

Samples were collected on 2/12/16 after excavation was complete:

A shovel was used to dig approximately 3-4 feet deep from equidistant locations on each pile at varying heights; samples were collected by hand and placed directly into 2-ounce sample jars, packed tightly with no headspace, and held on ice.

Fifteen discrete samples were collected: three discrete samples were collected from each of the three smallest piles, and six samples were collected from the largest pile as this pile was approximately two times the size of the other piles.

Of these samples, 13 samples were submitted for VOC analysis: the 15 discrete samples were composited at the lab for a total of five composite samples. The composite samples were analyzed for SVOCs, inorganics, PCBs, and pesticides. Each composite sample was comprised of three discrete samples.

- Samples were relinquished to Paradigm Environmental Services on 2/12/16 and analyzed for TCL & CP – 51 VOCs & SVOCs, TAL metals, pesticides, PCBs, Silvex, herbicides, and TCN.

RAVI ENGINEERING & LAND SURVEYING, P.C.

Technical Memorandum

To: Matt Gillette
NYSDEC Division of Environmental Remediation
From: Lynn Zicari
Ravi Engineering and Land Surveying, P.C.
Date: April 29, 2016
Project: 1440 Empire Blvd_C828135 Site Management
Subject: Building 8 Excavation Summary

Ravi Engineering and Land Surveying, P.C. (RE&LS) was on Site during the excavation of contaminated soils from beneath the cover system in the Building 8 footprint from April 11-15, 2016. CAMP monitoring was performed whenever we were onsite, and continued until intrusive activities were complete for the day. Soils were screened with a photoionization detector (PID) for volatile organic compound (VOC) vapors.

All excavated soil was stained black, but it was unclear if this was due to natural conditions or from Site impacts. No debris, cinders, or ash were encountered. PID readings were mostly 0.00 ppm; however, elevated readings ranged from 12.0 ppm to 250 ppm above background. Soils did not exhibit odors; however, minor odors were noted in areas with elevated PID readings.

Approximately 1,286 cubic yards (CYs) of soil was sampled for reuse onsite in accordance with DER 10 Table 5.4 (e) 10.

Sample Methodology

Samples were collected daily during soil excavation; they were collected by hand directly from the pile, and placed into 2-ounce sample jars, packed tightly with no headspace, and held on ice.

Nine discrete samples were collected and submitted for VOC analysis: the nine discrete samples were composited at the laboratory into two composite samples. One additional composite sample was sample was also collected. The three composite samples were analyzed for semi-volatile organic compounds (SVOCs), inorganics, polychlorinated biphenyls (PCBs), and pesticides. One composite sample was comprised of four discrete samples; one composite sample was comprised of the other five discrete samples; and the last composite sample was collected directly from the pile.

1440 Empire Blvd_C828135_Building 8 Excavation Summary
May 5, 2016

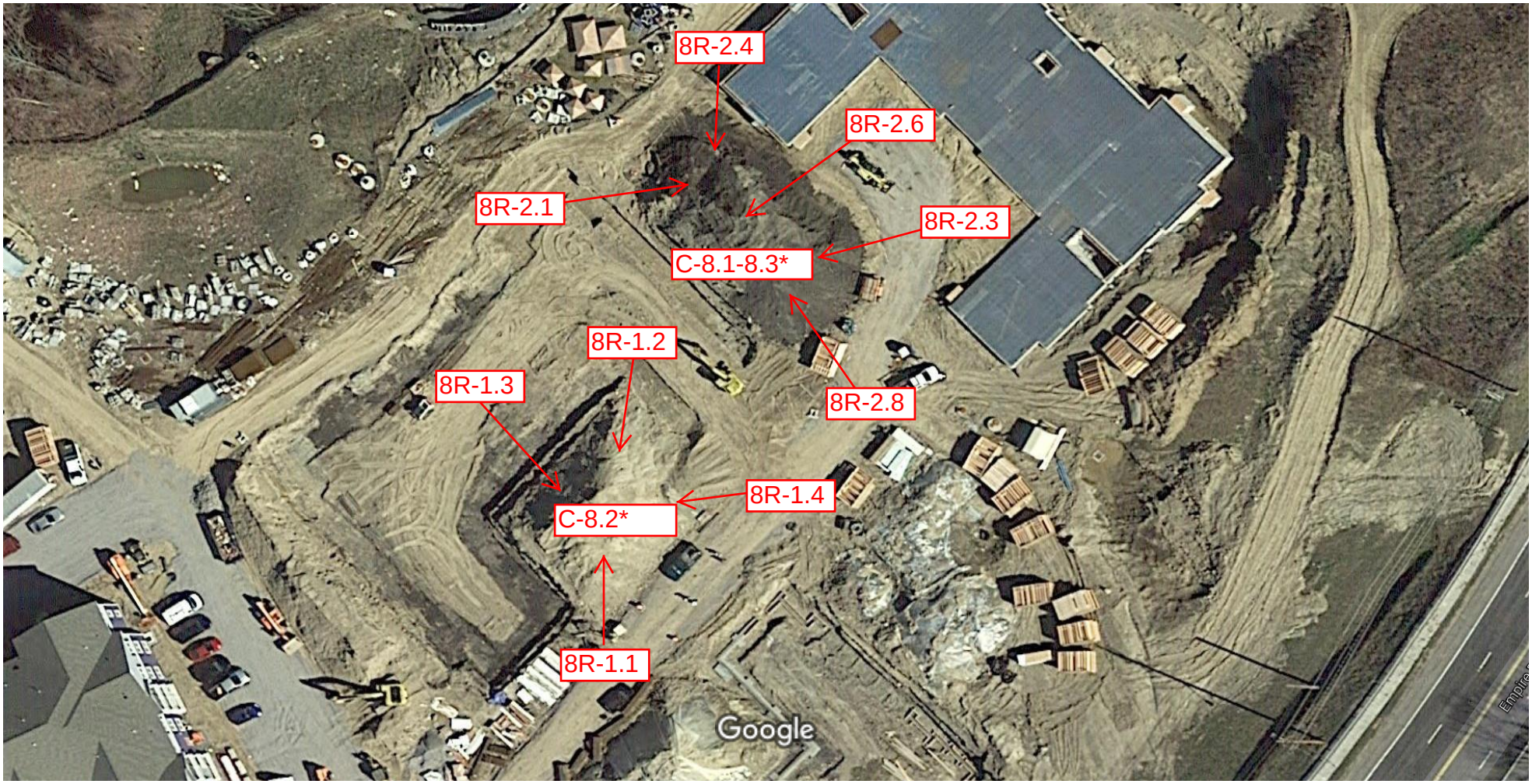
Samples were relinquished to Paradigm Environmental Services on 4/19/16 and analyzed for Target Compound List (TCL) & Commissioner's Policy 51 (CP – 51) VOCs & SVOCs, Part 375 metals, pesticides, PCBs, and Silvex.

Lynn Zicari
Environmental Technician
lzicari@ravieng.com
585-697-2071

Attachment 1: Laboratory Analysis

Google Maps 1440 Empire Blvd

Sample Location Map-Building 8 excavation
Samples Collected 4-11 through 4-15, 2016



Map data ©2016 Google 20 ft

Asterisks (*) indicate a composite sample:
C-8.1 composite was collected from between the discrete samples
C-8.2 consists of samples 8R-1.1, 1.2, 1.3,1.4
C-8.3 consists of samples 8R-2.1, 2.3, 2.4, 2.6, and 2.8.

Attachment 1
Laboratory Analysis

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	8R-1.1		
Lab Sample ID:	161505-01	**Date Sampled:**	4/11/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.09	ug/Kg		4/20/2016 16:25
1,1,2,2-Tetrachloroethane	< 4.09	ug/Kg		4/20/2016 16:25
1,1,2-Trichloroethane	< 4.09	ug/Kg		4/20/2016 16:25
1,1-Dichloroethane	< 4.09	ug/Kg		4/20/2016 16:25
1,1-Dichloroethene	< 4.09	ug/Kg		4/20/2016 16:25
1,2,3-Trichlorobenzene	< 10.2	ug/Kg		4/20/2016 16:25
1,2,4-Trichlorobenzene	< 10.2	ug/Kg		4/20/2016 16:25
1,2,4-Trimethylbenzene	< 4.09	ug/Kg		4/20/2016 16:25
1,2-Dibromo-3-Chloropropane	< 20.4	ug/Kg		4/20/2016 16:25
1,2-Dibromoethane	< 4.09	ug/Kg		4/20/2016 16:25
1,2-Dichlorobenzene	< 4.09	ug/Kg		4/20/2016 16:25
1,2-Dichloroethane	< 4.09	ug/Kg		4/20/2016 16:25
1,2-Dichloropropane	< 4.09	ug/Kg		4/20/2016 16:25
1,3,5-Trimethylbenzene	< 4.09	ug/Kg		4/20/2016 16:25
1,3-Dichlorobenzene	< 4.09	ug/Kg		4/20/2016 16:25
1,4-Dichlorobenzene	< 4.09	ug/Kg		4/20/2016 16:25
1,4-dioxane	< 40.9	ug/Kg		4/20/2016 16:25
2-Butanone	< 20.4	ug/Kg		4/20/2016 16:25
2-Hexanone	< 10.2	ug/Kg		4/20/2016 16:25
4-Methyl-2-pentanone	< 10.2	ug/Kg		4/20/2016 16:25
Acetone	**17.1**	ug/Kg	J	4/20/2016 16:25
Benzene	< 4.09	ug/Kg		4/20/2016 16:25
Bromochloromethane	< 10.2	ug/Kg		4/20/2016 16:25
Bromodichloromethane	< 4.09	ug/Kg		4/20/2016 16:25
Bromoform	< 10.2	ug/Kg		4/20/2016 16:25
Bromomethane	< 4.09	ug/Kg		4/20/2016 16:25
Carbon disulfide	< 4.09	ug/Kg		4/20/2016 16:25

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	8R-1.1		
Lab Sample ID:	161505-01	**Date Sampled:**	4/11/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Carbon Tetrachloride	< 4.09	ug/Kg	4/20/2016	16:25
Chlorobenzene	< 4.09	ug/Kg	4/20/2016	16:25
Chloroethane	< 4.09	ug/Kg	4/20/2016	16:25
Chloroform	< 4.09	ug/Kg	4/20/2016	16:25
Chloromethane	< 4.09	ug/Kg	4/20/2016	16:25
cis-1,2-Dichloroethene	**5.82**	ug/Kg	4/20/2016	16:25
cis-1,3-Dichloropropene	< 4.09	ug/Kg	4/20/2016	16:25
Cyclohexane	< 20.4	ug/Kg	4/20/2016	16:25
Dibromochloromethane	< 4.09	ug/Kg	4/20/2016	16:25
Dichlorodifluoromethane	< 4.09	ug/Kg	4/20/2016	16:25
Ethylbenzene	< 4.09	ug/Kg	4/20/2016	16:25
Freon 113	< 4.09	ug/Kg	4/20/2016	16:25
Isopropylbenzene	< 4.09	ug/Kg	4/20/2016	16:25
m,p-Xylene	< 4.09	ug/Kg	4/20/2016	16:25
Methyl acetate	< 4.09	ug/Kg	4/20/2016	16:25
Methyl tert-butyl Ether	< 4.09	ug/Kg	4/20/2016	16:25
Methylcyclohexane	< 4.09	ug/Kg	4/20/2016	16:25
Methylene chloride	< 10.2	ug/Kg	4/20/2016	16:25
Naphthalene	< 10.2	ug/Kg	4/20/2016	16:25
n-Butylbenzene	< 4.09	ug/Kg	4/20/2016	16:25
n-Propylbenzene	< 4.09	ug/Kg	4/20/2016	16:25
o-Xylene	< 4.09	ug/Kg	4/20/2016	16:25
p-Isopropyltoluene	< 4.09	ug/Kg	4/20/2016	16:25
sec-Butylbenzene	< 4.09	ug/Kg	4/20/2016	16:25
Styrene	< 10.2	ug/Kg	4/20/2016	16:25
tert-Butylbenzene	< 4.09	ug/Kg	4/20/2016	16:25
Tetrachloroethene	< 4.09	ug/Kg	4/20/2016	16:25
Toluene	< 4.09	ug/Kg	4/20/2016	16:25
trans-1,2-Dichloroethene	< 4.09	ug/Kg	4/20/2016	16:25
trans-1,3-Dichloropropene	< 4.09	ug/Kg	4/20/2016	16:25

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	8R-1.1		
Lab Sample ID:	161505-01	**Date Sampled:**	4/11/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Trichloroethene	**9.31**	ug/Kg	4/20/2016	16:25
Trichlorofluoromethane	< 4.09	ug/Kg	4/20/2016	16:25
Vinyl chloride	< 4.09	ug/Kg	4/20/2016	16:25

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**135**	85.4 - 122	*	4/20/2016	16:25
4-Bromofluorobenzene	**78.7**	81.1 - 115	*	4/20/2016	16:25
Pentafluorobenzene	**110**	90.7 - 109	*	4/20/2016	16:25
Toluene-D8	**97.8**	88.5 - 110		4/20/2016	16:25

Internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035

Data File: x31766.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	8R-1.2		
Lab Sample ID:	161505-02	**Date Sampled:**	4/11/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.38	ug/Kg		4/20/2016 16:49
1,1,2,2-Tetrachloroethane	< 4.38	ug/Kg		4/20/2016 16:49
1,1,2-Trichloroethane	< 4.38	ug/Kg		4/20/2016 16:49
1,1-Dichloroethane	< 4.38	ug/Kg		4/20/2016 16:49
1,1-Dichloroethene	< 4.38	ug/Kg		4/20/2016 16:49
1,2,3-Trichlorobenzene	< 11.0	ug/Kg		4/20/2016 16:49
1,2,4-Trichlorobenzene	< 11.0	ug/Kg		4/20/2016 16:49
1,2,4-Trimethylbenzene	< 4.38	ug/Kg		4/20/2016 16:49
1,2-Dibromo-3-Chloropropane	< 21.9	ug/Kg		4/20/2016 16:49
1,2-Dibromoethane	< 4.38	ug/Kg		4/20/2016 16:49
1,2-Dichlorobenzene	< 4.38	ug/Kg		4/20/2016 16:49
1,2-Dichloroethane	< 4.38	ug/Kg		4/20/2016 16:49
1,2-Dichloropropane	< 4.38	ug/Kg		4/20/2016 16:49
1,3,5-Trimethylbenzene	< 4.38	ug/Kg		4/20/2016 16:49
1,3-Dichlorobenzene	< 4.38	ug/Kg		4/20/2016 16:49
1,4-Dichlorobenzene	< 4.38	ug/Kg		4/20/2016 16:49
1,4-dioxane	< 43.8	ug/Kg		4/20/2016 16:49
2-Butanone	< 21.9	ug/Kg		4/20/2016 16:49
2-Hexanone	< 11.0	ug/Kg		4/20/2016 16:49
4-Methyl-2-pentanone	< 11.0	ug/Kg		4/20/2016 16:49
Acetone	**44.8**	ug/Kg		4/20/2016 16:49
Benzene	< 4.38	ug/Kg		4/20/2016 16:49
Bromochloromethane	< 11.0	ug/Kg		4/20/2016 16:49
Bromodichloromethane	< 4.38	ug/Kg		4/20/2016 16:49
Bromoform	< 11.0	ug/Kg		4/20/2016 16:49
Bromomethane	< 4.38	ug/Kg		4/20/2016 16:49
Carbon disulfide	< 4.38	ug/Kg		4/20/2016 16:49

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	8R-1.2		
Lab Sample ID:	161505-02	**Date Sampled:**	4/11/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Carbon Tetrachloride	< 4.38	ug/Kg		4/20/2016	16:49
Chlorobenzene	< 4.38	ug/Kg		4/20/2016	16:49
Chloroethane	< 4.38	ug/Kg		4/20/2016	16:49
Chloroform	< 4.38	ug/Kg		4/20/2016	16:49
Chloromethane	< 4.38	ug/Kg		4/20/2016	16:49
cis-1,2-Dichloroethene	**6.09**	ug/Kg		4/20/2016	16:49
cis-1,3-Dichloropropene	< 4.38	ug/Kg		4/20/2016	16:49
Cyclohexane	< 21.9	ug/Kg		4/20/2016	16:49
Dibromochloromethane	< 4.38	ug/Kg		4/20/2016	16:49
Dichlorodifluoromethane	< 4.38	ug/Kg		4/20/2016	16:49
Ethylbenzene	< 4.38	ug/Kg		4/20/2016	16:49
Freon 113	< 4.38	ug/Kg		4/20/2016	16:49
Isopropylbenzene	< 4.38	ug/Kg		4/20/2016	16:49
m,p-Xylene	< 4.38	ug/Kg		4/20/2016	16:49
Methyl acetate	< 4.38	ug/Kg		4/20/2016	16:49
Methyl tert-butyl Ether	< 4.38	ug/Kg		4/20/2016	16:49
Methylcyclohexane	< 4.38	ug/Kg		4/20/2016	16:49
Methylene chloride	< 11.0	ug/Kg		4/20/2016	16:49
Naphthalene	< 11.0	ug/Kg		4/20/2016	16:49
n-Butylbenzene	< 4.38	ug/Kg		4/20/2016	16:49
n-Propylbenzene	< 4.38	ug/Kg		4/20/2016	16:49
o-Xylene	< 4.38	ug/Kg		4/20/2016	16:49
p-Isopropyltoluene	**3.04**	ug/Kg	J	4/20/2016	16:49
sec-Butylbenzene	< 4.38	ug/Kg		4/20/2016	16:49
Styrene	< 11.0	ug/Kg		4/20/2016	16:49
tert-Butylbenzene	< 4.38	ug/Kg		4/20/2016	16:49
Tetrachloroethene	< 4.38	ug/Kg		4/20/2016	16:49
Toluene	< 4.38	ug/Kg		4/20/2016	16:49
trans-1,2-Dichloroethene	< 4.38	ug/Kg		4/20/2016	16:49
trans-1,3-Dichloropropene	< 4.38	ug/Kg		4/20/2016	16:49

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	8R-1.2		
Lab Sample ID:	161505-02	**Date Sampled:**	4/11/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Trichloroethene	**11.1**	ug/Kg	4/20/2016	16:49
Trichlorofluoromethane	< 4.38	ug/Kg	4/20/2016	16:49
Vinyl chloride	< 4.38	ug/Kg	4/20/2016	16:49

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**129**	85.4 - 122	*	4/20/2016	16:49
4-Bromofluorobenzene	**76.9**	81.1 - 115	*	4/20/2016	16:49
Pentafluorobenzene	**108**	90.7 - 109		4/20/2016	16:49
Toluene-D8	**96.4**	88.5 - 110		4/20/2016	16:49

Internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035

Data File: x31767.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	8R-1.3		
Lab Sample ID:	161505-03	**Date Sampled:**	4/13/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.08	ug/Kg		4/20/2016 17:13
1,1,2,2-Tetrachloroethane	< 4.08	ug/Kg		4/20/2016 17:13
1,1,2-Trichloroethane	< 4.08	ug/Kg		4/20/2016 17:13
1,1-Dichloroethane	< 4.08	ug/Kg		4/20/2016 17:13
1,1-Dichloroethene	< 4.08	ug/Kg		4/20/2016 17:13
1,2,3-Trichlorobenzene	< 10.2	ug/Kg		4/20/2016 17:13
1,2,4-Trichlorobenzene	< 10.2	ug/Kg		4/20/2016 17:13
1,2,4-Trimethylbenzene	< 4.08	ug/Kg		4/20/2016 17:13
1,2-Dibromo-3-Chloropropane	< 20.4	ug/Kg		4/20/2016 17:13
1,2-Dibromoethane	< 4.08	ug/Kg		4/20/2016 17:13
1,2-Dichlorobenzene	< 4.08	ug/Kg		4/20/2016 17:13
1,2-Dichloroethane	< 4.08	ug/Kg		4/20/2016 17:13
1,2-Dichloropropane	< 4.08	ug/Kg		4/20/2016 17:13
1,3,5-Trimethylbenzene	< 4.08	ug/Kg		4/20/2016 17:13
1,3-Dichlorobenzene	< 4.08	ug/Kg		4/20/2016 17:13
1,4-Dichlorobenzene	< 4.08	ug/Kg		4/20/2016 17:13
1,4-dioxane	< 40.8	ug/Kg		4/20/2016 17:13
2-Butanone	< 20.4	ug/Kg		4/20/2016 17:13
2-Hexanone	< 10.2	ug/Kg		4/20/2016 17:13
4-Methyl-2-pentanone	< 10.2	ug/Kg		4/20/2016 17:13
Acetone	< 20.4	ug/Kg		4/20/2016 17:13
Benzene	< 4.08	ug/Kg		4/20/2016 17:13
Bromochloromethane	< 10.2	ug/Kg		4/20/2016 17:13
Bromodichloromethane	< 4.08	ug/Kg		4/20/2016 17:13
Bromoform	< 10.2	ug/Kg		4/20/2016 17:13
Bromomethane	< 4.08	ug/Kg		4/20/2016 17:13
Carbon disulfide	< 4.08	ug/Kg		4/20/2016 17:13

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier: 8R-1.3
Lab Sample ID: 161505-03 **Date Sampled:** 4/13/2016
Matrix: Soil **Date Received:** 4/19/2016

Carbon Tetrachloride	< 4.08	ug/Kg	4/20/2016	17:13
Chlorobenzene	< 4.08	ug/Kg	4/20/2016	17:13
Chloroethane	< 4.08	ug/Kg	4/20/2016	17:13
Chloroform	< 4.08	ug/Kg	4/20/2016	17:13
Chloromethane	< 4.08	ug/Kg	4/20/2016	17:13
cis-1,2-Dichloroethene	< 4.08	ug/Kg	4/20/2016	17:13
cis-1,3-Dichloropropene	< 4.08	ug/Kg	4/20/2016	17:13
Cyclohexane	< 20.4	ug/Kg	4/20/2016	17:13
Dibromochloromethane	< 4.08	ug/Kg	4/20/2016	17:13
Dichlorodifluoromethane	< 4.08	ug/Kg	4/20/2016	17:13
Ethylbenzene	< 4.08	ug/Kg	4/20/2016	17:13
Freon 113	< 4.08	ug/Kg	4/20/2016	17:13
Isopropylbenzene	< 4.08	ug/Kg	4/20/2016	17:13
m,p-Xylene	< 4.08	ug/Kg	4/20/2016	17:13
Methyl acetate	< 4.08	ug/Kg	4/20/2016	17:13
Methyl tert-butyl Ether	< 4.08	ug/Kg	4/20/2016	17:13
Methylcyclohexane	< 4.08	ug/Kg	4/20/2016	17:13
Methylene chloride	< 10.2	ug/Kg	4/20/2016	17:13
Naphthalene	< 10.2	ug/Kg	4/20/2016	17:13
n-Butylbenzene	< 4.08	ug/Kg	4/20/2016	17:13
n-Propylbenzene	< 4.08	ug/Kg	4/20/2016	17:13
o-Xylene	< 4.08	ug/Kg	4/20/2016	17:13
p-Isopropyltoluene	< 4.08	ug/Kg	4/20/2016	17:13
sec-Butylbenzene	< 4.08	ug/Kg	4/20/2016	17:13
Styrene	< 10.2	ug/Kg	4/20/2016	17:13
tert-Butylbenzene	< 4.08	ug/Kg	4/20/2016	17:13
Tetrachloroethene	< 4.08	ug/Kg	4/20/2016	17:13
Toluene	< 4.08	ug/Kg	4/20/2016	17:13
trans-1,2-Dichloroethene	< 4.08	ug/Kg	4/20/2016	17:13
trans-1,3-Dichloropropene	< 4.08	ug/Kg	4/20/2016	17:13

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	8R-1.3		
Lab Sample ID:	161505-03	**Date Sampled:**	4/13/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Trichloroethene	< 4.08	ug/Kg		4/20/2016	17:13
Trichlorofluoromethane	< 4.08	ug/Kg		4/20/2016	17:13
Vinyl chloride	< 4.08	ug/Kg		4/20/2016	17:13

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**111**	85.4 - 122		4/20/2016	17:13
4-Bromofluorobenzene	**97.1**	81.1 - 115		4/20/2016	17:13
Pentafluorobenzene	**104**	90.7 - 109		4/20/2016	17:13
Toluene-D8	**99.1**	88.5 - 110		4/20/2016	17:13

Method Reference(s): EPA 8260C
EPA 5035

Data File: x31768.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	8R-1.4		
Lab Sample ID:	161505-04	**Date Sampled:**	4/13/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.33	ug/Kg		4/20/2016 17:37
1,1,2,2-Tetrachloroethane	< 4.33	ug/Kg		4/20/2016 17:37
1,1,2-Trichloroethane	< 4.33	ug/Kg		4/20/2016 17:37
1,1-Dichloroethane	< 4.33	ug/Kg		4/20/2016 17:37
1,1-Dichloroethene	< 4.33	ug/Kg		4/20/2016 17:37
1,2,3-Trichlorobenzene	< 10.8	ug/Kg		4/20/2016 17:37
1,2,4-Trichlorobenzene	< 10.8	ug/Kg		4/20/2016 17:37
1,2,4-Trimethylbenzene	< 4.33	ug/Kg		4/20/2016 17:37
1,2-Dibromo-3-Chloropropane	< 21.7	ug/Kg		4/20/2016 17:37
1,2-Dibromoethane	< 4.33	ug/Kg		4/20/2016 17:37
1,2-Dichlorobenzene	< 4.33	ug/Kg		4/20/2016 17:37
1,2-Dichloroethane	< 4.33	ug/Kg		4/20/2016 17:37
1,2-Dichloropropane	< 4.33	ug/Kg		4/20/2016 17:37
1,3,5-Trimethylbenzene	< 4.33	ug/Kg		4/20/2016 17:37
1,3-Dichlorobenzene	< 4.33	ug/Kg		4/20/2016 17:37
1,4-Dichlorobenzene	< 4.33	ug/Kg		4/20/2016 17:37
1,4-dioxane	< 43.3	ug/Kg		4/20/2016 17:37
2-Butanone	< 21.7	ug/Kg		4/20/2016 17:37
2-Hexanone	< 10.8	ug/Kg		4/20/2016 17:37
4-Methyl-2-pentanone	< 10.8	ug/Kg		4/20/2016 17:37
Acetone	< 21.7	ug/Kg		4/20/2016 17:37
Benzene	< 4.33	ug/Kg		4/20/2016 17:37
Bromochloromethane	< 10.8	ug/Kg		4/20/2016 17:37
Bromodichloromethane	< 4.33	ug/Kg		4/20/2016 17:37
Bromoform	< 10.8	ug/Kg		4/20/2016 17:37
Bromomethane	< 4.33	ug/Kg		4/20/2016 17:37
Carbon disulfide	< 4.33	ug/Kg		4/20/2016 17:37

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	8R-1.4		
Lab Sample ID:	161505-04	**Date Sampled:**	4/13/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Carbon Tetrachloride	< 4.33	ug/Kg	4/20/2016	17:37
Chlorobenzene	< 4.33	ug/Kg	4/20/2016	17:37
Chloroethane	< 4.33	ug/Kg	4/20/2016	17:37
Chloroform	< 4.33	ug/Kg	4/20/2016	17:37
Chloromethane	< 4.33	ug/Kg	4/20/2016	17:37
cis-1,2-Dichloroethene	< 4.33	ug/Kg	4/20/2016	17:37
cis-1,3-Dichloropropene	< 4.33	ug/Kg	4/20/2016	17:37
Cyclohexane	< 21.7	ug/Kg	4/20/2016	17:37
Dibromochloromethane	< 4.33	ug/Kg	4/20/2016	17:37
Dichlorodifluoromethane	< 4.33	ug/Kg	4/20/2016	17:37
Ethylbenzene	< 4.33	ug/Kg	4/20/2016	17:37
Freon 113	< 4.33	ug/Kg	4/20/2016	17:37
Isopropylbenzene	< 4.33	ug/Kg	4/20/2016	17:37
m,p-Xylene	< 4.33	ug/Kg	4/20/2016	17:37
Methyl acetate	< 4.33	ug/Kg	4/20/2016	17:37
Methyl tert-butyl Ether	< 4.33	ug/Kg	4/20/2016	17:37
Methylcyclohexane	< 4.33	ug/Kg	4/20/2016	17:37
Methylene chloride	< 10.8	ug/Kg	4/20/2016	17:37
Naphthalene	< 10.8	ug/Kg	4/20/2016	17:37
n-Butylbenzene	< 4.33	ug/Kg	4/20/2016	17:37
n-Propylbenzene	< 4.33	ug/Kg	4/20/2016	17:37
o-Xylene	< 4.33	ug/Kg	4/20/2016	17:37
p-Isopropyltoluene	**58.3**	ug/Kg	4/20/2016	17:37
sec-Butylbenzene	< 4.33	ug/Kg	4/20/2016	17:37
Styrene	< 10.8	ug/Kg	4/20/2016	17:37
tert-Butylbenzene	< 4.33	ug/Kg	4/20/2016	17:37
Tetrachloroethene	< 4.33	ug/Kg	4/20/2016	17:37
Toluene	< 4.33	ug/Kg	4/20/2016	17:37
trans-1,2-Dichloroethene	< 4.33	ug/Kg	4/20/2016	17:37
trans-1,3-Dichloropropene	< 4.33	ug/Kg	4/20/2016	17:37

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	8R-1.4		
Lab Sample ID:	161505-04	**Date Sampled:**	4/13/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Trichloroethene	< 4.33	ug/Kg		4/20/2016	17:37
Trichlorofluoromethane	< 4.33	ug/Kg		4/20/2016	17:37
Vinyl chloride	< 4.33	ug/Kg		4/20/2016	17:37

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**113**	85.4 - 122		4/20/2016	17:37
4-Bromofluorobenzene	**96.0**	81.1 - 115		4/20/2016	17:37
Pentafluorobenzene	**103**	90.7 - 109		4/20/2016	17:37
Toluene-D8	**99.5**	88.5 - 110		4/20/2016	17:37

Method Reference(s): EPA 8260C
EPA 5035

Data File: x31769.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	8R-2.1		
Lab Sample ID:	161505-05	**Date Sampled:**	4/14/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 3.60	ug/Kg		4/20/2016 18:01
1,1,2,2-Tetrachloroethane	< 3.60	ug/Kg		4/20/2016 18:01
1,1,2-Trichloroethane	< 3.60	ug/Kg		4/20/2016 18:01
1,1-Dichloroethane	< 3.60	ug/Kg		4/20/2016 18:01
1,1-Dichloroethene	< 3.60	ug/Kg		4/20/2016 18:01
1,2,3-Trichlorobenzene	< 9.01	ug/Kg		4/20/2016 18:01
1,2,4-Trichlorobenzene	< 9.01	ug/Kg		4/20/2016 18:01
1,2,4-Trimethylbenzene	**10.6**	ug/Kg		4/20/2016 18:01
1,2-Dibromo-3-Chloropropane	< 18.0	ug/Kg		4/20/2016 18:01
1,2-Dibromoethane	< 3.60	ug/Kg		4/20/2016 18:01
1,2-Dichlorobenzene	< 3.60	ug/Kg		4/20/2016 18:01
1,2-Dichloroethane	< 3.60	ug/Kg		4/20/2016 18:01
1,2-Dichloropropane	< 3.60	ug/Kg		4/20/2016 18:01
1,3,5-Trimethylbenzene	**7.58**	ug/Kg		4/20/2016 18:01
1,3-Dichlorobenzene	< 3.60	ug/Kg		4/20/2016 18:01
1,4-Dichlorobenzene	< 3.60	ug/Kg		4/20/2016 18:01
1,4-dioxane	< 36.0	ug/Kg		4/20/2016 18:01
2-Butanone	< 18.0	ug/Kg		4/20/2016 18:01
2-Hexanone	< 9.01	ug/Kg		4/20/2016 18:01
4-Methyl-2-pentanone	< 9.01	ug/Kg		4/20/2016 18:01
Acetone	**11.9**	ug/Kg	J	4/20/2016 18:01
Benzene	**3.62**	ug/Kg		4/20/2016 18:01
Bromochloromethane	< 9.01	ug/Kg		4/20/2016 18:01
Bromodichloromethane	< 3.60	ug/Kg		4/20/2016 18:01
Bromoform	< 9.01	ug/Kg		4/20/2016 18:01
Bromomethane	< 3.60	ug/Kg		4/20/2016 18:01
Carbon disulfide	**4.64**	ug/Kg		4/20/2016 18:01

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier: 8R-2.1
Lab Sample ID: 161505-05 **Date Sampled:** 4/14/2016
Matrix: Soil **Date Received:** 4/19/2016

Carbon Tetrachloride	< 3.60	ug/Kg		4/20/2016	18:01
Chlorobenzene	< 3.60	ug/Kg		4/20/2016	18:01
Chloroethane	< 3.60	ug/Kg		4/20/2016	18:01
Chloroform	< 3.60	ug/Kg		4/20/2016	18:01
Chloromethane	< 3.60	ug/Kg		4/20/2016	18:01
cis-1,2-Dichloroethene	**46.2**	ug/Kg		4/20/2016	18:01
cis-1,3-Dichloropropene	< 3.60	ug/Kg		4/20/2016	18:01
Cyclohexane	< 18.0	ug/Kg		4/20/2016	18:01
Dibromochloromethane	< 3.60	ug/Kg		4/20/2016	18:01
Dichlorodifluoromethane	< 3.60	ug/Kg		4/20/2016	18:01
Ethylbenzene	**5.66**	ug/Kg		4/20/2016	18:01
Freon 113	< 3.60	ug/Kg		4/20/2016	18:01
Isopropylbenzene	**1.88**	ug/Kg	J	4/20/2016	18:01
m,p-Xylene	**12.5**	ug/Kg		4/20/2016	18:01
Methyl acetate	< 3.60	ug/Kg		4/20/2016	18:01
Methyl tert-butyl Ether	< 3.60	ug/Kg		4/20/2016	18:01
Methylcyclohexane	< 3.60	ug/Kg		4/20/2016	18:01
Methylene chloride	< 9.01	ug/Kg		4/20/2016	18:01
Naphthalene	**5.79**	ug/Kg	J	4/20/2016	18:01
n-Butylbenzene	< 3.60	ug/Kg		4/20/2016	18:01
n-Propylbenzene	< 3.60	ug/Kg		4/20/2016	18:01
o-Xylene	**3.49**	ug/Kg	J	4/20/2016	18:01
p-Isopropyltoluene	**3.68**	ug/Kg		4/20/2016	18:01
sec-Butylbenzene	**4.73**	ug/Kg		4/20/2016	18:01
Styrene	< 9.01	ug/Kg		4/20/2016	18:01
tert-Butylbenzene	< 3.60	ug/Kg		4/20/2016	18:01
Tetrachloroethene	< 3.60	ug/Kg		4/20/2016	18:01
Toluene	**8.24**	ug/Kg		4/20/2016	18:01
trans-1,2-Dichloroethene	**9.77**	ug/Kg		4/20/2016	18:01
trans-1,3-Dichloropropene	< 3.60	ug/Kg		4/20/2016	18:01

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	8R-2.1		
Lab Sample ID:	161505-05	**Date Sampled:**	4/14/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Trichloroethene	**67.7**	ug/Kg		4/20/2016	18:01
Trichlorofluoromethane	< 3.60	ug/Kg		4/20/2016	18:01
Vinyl chloride	**3.97**	ug/Kg		4/20/2016	18:01

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**106**	85.4 - 122		4/20/2016	18:01
4-Bromofluorobenzene	**85.5**	81.1 - 115		4/20/2016	18:01
Pentafluorobenzene	**101**	90.7 - 109		4/20/2016	18:01
Toluene-D8	**93.6**	88.5 - 110		4/20/2016	18:01

Internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035

Data File: x31770.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	8R-2.3		
Lab Sample ID:	161505-06	**Date Sampled:**	4/14/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.08	ug/Kg		4/20/2016 18:25
1,1,2,2-Tetrachloroethane	< 4.08	ug/Kg		4/20/2016 18:25
1,1,2-Trichloroethane	< 4.08	ug/Kg		4/20/2016 18:25
1,1-Dichloroethane	**2.48**	ug/Kg	J	4/20/2016 18:25
1,1-Dichloroethene	< 4.08	ug/Kg		4/20/2016 18:25
1,2,3-Trichlorobenzene	< 10.2	ug/Kg		4/20/2016 18:25
1,2,4-Trichlorobenzene	< 10.2	ug/Kg		4/20/2016 18:25
1,2,4-Trimethylbenzene	**18.7**	ug/Kg		4/20/2016 18:25
1,2-Dibromo-3-Chloropropane	< 20.4	ug/Kg		4/20/2016 18:25
1,2-Dibromoethane	< 4.08	ug/Kg		4/20/2016 18:25
1,2-Dichlorobenzene	< 4.08	ug/Kg		4/20/2016 18:25
1,2-Dichloroethane	< 4.08	ug/Kg		4/20/2016 18:25
1,2-Dichloropropane	< 4.08	ug/Kg		4/20/2016 18:25
1,3,5-Trimethylbenzene	**8.52**	ug/Kg		4/20/2016 18:25
1,3-Dichlorobenzene	< 4.08	ug/Kg		4/20/2016 18:25
1,4-Dichlorobenzene	< 4.08	ug/Kg		4/20/2016 18:25
1,4-dioxane	< 40.8	ug/Kg		4/20/2016 18:25
2-Butanone	< 20.4	ug/Kg		4/20/2016 18:25
2-Hexanone	< 10.2	ug/Kg		4/20/2016 18:25
4-Methyl-2-pentanone	< 10.2	ug/Kg		4/20/2016 18:25
Acetone	**14.1**	ug/Kg	J	4/20/2016 18:25
Benzene	**4.52**	ug/Kg		4/20/2016 18:25
Bromochloromethane	< 10.2	ug/Kg		4/20/2016 18:25
Bromodichloromethane	< 4.08	ug/Kg		4/20/2016 18:25
Bromoform	< 10.2	ug/Kg		4/20/2016 18:25
Bromomethane	< 4.08	ug/Kg		4/20/2016 18:25
Carbon disulfide	**13.2**	ug/Kg		4/20/2016 18:25

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	8R-2.3		
Lab Sample ID:	161505-06	**Date Sampled:**	4/14/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Carbon Tetrachloride	< 4.08	ug/Kg		4/20/2016	18:25
Chlorobenzene	< 4.08	ug/Kg		4/20/2016	18:25
Chloroethane	< 4.08	ug/Kg		4/20/2016	18:25
Chloroform	< 4.08	ug/Kg		4/20/2016	18:25
Chloromethane	< 4.08	ug/Kg		4/20/2016	18:25
cis-1,2-Dichloroethene	**38.1**	ug/Kg		4/20/2016	18:25
cis-1,3-Dichloropropene	< 4.08	ug/Kg		4/20/2016	18:25
Cyclohexane	< 20.4	ug/Kg		4/20/2016	18:25
Dibromochloromethane	< 4.08	ug/Kg		4/20/2016	18:25
Dichlorodifluoromethane	< 4.08	ug/Kg		4/20/2016	18:25
Ethylbenzene	**3.42**	ug/Kg	J	4/20/2016	18:25
Freon 113	< 4.08	ug/Kg		4/20/2016	18:25
Isopropylbenzene	< 4.08	ug/Kg		4/20/2016	18:25
m,p-Xylene	**5.05**	ug/Kg		4/20/2016	18:25
Methyl acetate	< 4.08	ug/Kg		4/20/2016	18:25
Methyl tert-butyl Ether	< 4.08	ug/Kg		4/20/2016	18:25
Methylcyclohexane	< 4.08	ug/Kg		4/20/2016	18:25
Methylene chloride	< 10.2	ug/Kg		4/20/2016	18:25
Naphthalene	**49.7**	ug/Kg		4/20/2016	18:25
n-Butylbenzene	< 4.08	ug/Kg		4/20/2016	18:25
n-Propylbenzene	< 4.08	ug/Kg		4/20/2016	18:25
o-Xylene	**2.46**	ug/Kg	J	4/20/2016	18:25
p-Isopropyltoluene	**4.46**	ug/Kg		4/20/2016	18:25
sec-Butylbenzene	**3.73**	ug/Kg	J	4/20/2016	18:25
Styrene	< 10.2	ug/Kg		4/20/2016	18:25
tert-Butylbenzene	< 4.08	ug/Kg		4/20/2016	18:25
Tetrachloroethene	**3.65**	ug/Kg	J	4/20/2016	18:25
Toluene	**6.11**	ug/Kg		4/20/2016	18:25
trans-1,2-Dichloroethene	**8.20**	ug/Kg		4/20/2016	18:25
trans-1,3-Dichloropropene	< 4.08	ug/Kg		4/20/2016	18:25

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	8R-2.3		
Lab Sample ID:	161505-06	**Date Sampled:**	4/14/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Trichloroethene	**33.0**	ug/Kg		4/20/2016	18:25
Trichlorofluoromethane	< 4.08	ug/Kg		4/20/2016	18:25
Vinyl chloride	**10.9**	ug/Kg		4/20/2016	18:25

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**108**	85.4 - 122		4/20/2016	18:25
4-Bromofluorobenzene	**90.9**	81.1 - 115		4/20/2016	18:25
Pentafluorobenzene	**102**	90.7 - 109		4/20/2016	18:25
Toluene-D8	**95.0**	88.5 - 110		4/20/2016	18:25

Internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035

Data File: x31771.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	8R-2.4		
Lab Sample ID:	161505-07	**Date Sampled:**	4/14/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.27	ug/Kg		4/20/2016 18:49
1,1,2,2-Tetrachloroethane	< 4.27	ug/Kg		4/20/2016 18:49
1,1,2-Trichloroethane	< 4.27	ug/Kg		4/20/2016 18:49
1,1-Dichloroethane	< 4.27	ug/Kg		4/20/2016 18:49
1,1-Dichloroethene	< 4.27	ug/Kg		4/20/2016 18:49
1,2,3-Trichlorobenzene	< 10.7	ug/Kg		4/20/2016 18:49
1,2,4-Trichlorobenzene	< 10.7	ug/Kg		4/20/2016 18:49
1,2,4-Trimethylbenzene	**2.38**	ug/Kg	J	4/20/2016 18:49
1,2-Dibromo-3-Chloropropane	< 21.4	ug/Kg		4/20/2016 18:49
1,2-Dibromoethane	< 4.27	ug/Kg		4/20/2016 18:49
1,2-Dichlorobenzene	< 4.27	ug/Kg		4/20/2016 18:49
1,2-Dichloroethane	< 4.27	ug/Kg		4/20/2016 18:49
1,2-Dichloropropane	< 4.27	ug/Kg		4/20/2016 18:49
1,3,5-Trimethylbenzene	< 4.27	ug/Kg		4/20/2016 18:49
1,3-Dichlorobenzene	< 4.27	ug/Kg		4/20/2016 18:49
1,4-Dichlorobenzene	< 4.27	ug/Kg		4/20/2016 18:49
1,4-dioxane	< 42.7	ug/Kg		4/20/2016 18:49
2-Butanone	< 21.4	ug/Kg		4/20/2016 18:49
2-Hexanone	< 10.7	ug/Kg		4/20/2016 18:49
4-Methyl-2-pentanone	< 10.7	ug/Kg		4/20/2016 18:49
Acetone	< 21.4	ug/Kg		4/20/2016 18:49
Benzene	**2.30**	ug/Kg	J	4/20/2016 18:49
Bromochloromethane	< 10.7	ug/Kg		4/20/2016 18:49
Bromodichloromethane	< 4.27	ug/Kg		4/20/2016 18:49
Bromoform	< 10.7	ug/Kg		4/20/2016 18:49
Bromomethane	< 4.27	ug/Kg		4/20/2016 18:49
Carbon disulfide	< 4.27	ug/Kg		4/20/2016 18:49

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	8R-2.4		
Lab Sample ID:	161505-07	**Date Sampled:**	4/14/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Carbon Tetrachloride	< 4.27	ug/Kg		4/20/2016	18:49
Chlorobenzene	< 4.27	ug/Kg		4/20/2016	18:49
Chloroethane	< 4.27	ug/Kg		4/20/2016	18:49
Chloroform	< 4.27	ug/Kg		4/20/2016	18:49
Chloromethane	< 4.27	ug/Kg		4/20/2016	18:49
cis-1,2-Dichloroethene	**7.70**	ug/Kg		4/20/2016	18:49
cis-1,3-Dichloropropene	< 4.27	ug/Kg		4/20/2016	18:49
Cyclohexane	< 21.4	ug/Kg		4/20/2016	18:49
Dibromochloromethane	< 4.27	ug/Kg		4/20/2016	18:49
Dichlorodifluoromethane	< 4.27	ug/Kg		4/20/2016	18:49
Ethylbenzene	< 4.27	ug/Kg		4/20/2016	18:49
Freon 113	< 4.27	ug/Kg		4/20/2016	18:49
Isopropylbenzene	< 4.27	ug/Kg		4/20/2016	18:49
m,p-Xylene	< 4.27	ug/Kg		4/20/2016	18:49
Methyl acetate	< 4.27	ug/Kg		4/20/2016	18:49
Methyl tert-butyl Ether	< 4.27	ug/Kg		4/20/2016	18:49
Methylcyclohexane	< 4.27	ug/Kg		4/20/2016	18:49
Methylene chloride	< 10.7	ug/Kg		4/20/2016	18:49
Naphthalene	< 10.7	ug/Kg		4/20/2016	18:49
n-Butylbenzene	< 4.27	ug/Kg		4/20/2016	18:49
n-Propylbenzene	< 4.27	ug/Kg		4/20/2016	18:49
o-Xylene	< 4.27	ug/Kg		4/20/2016	18:49
p-Isopropyltoluene	< 4.27	ug/Kg		4/20/2016	18:49
sec-Butylbenzene	< 4.27	ug/Kg		4/20/2016	18:49
Styrene	< 10.7	ug/Kg		4/20/2016	18:49
tert-Butylbenzene	< 4.27	ug/Kg		4/20/2016	18:49
Tetrachloroethene	< 4.27	ug/Kg		4/20/2016	18:49
Toluene	< 4.27	ug/Kg		4/20/2016	18:49
trans-1,2-Dichloroethene	**3.85**	ug/Kg	J	4/20/2016	18:49
trans-1,3-Dichloropropene	< 4.27	ug/Kg		4/20/2016	18:49

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	8R-2.4		
Lab Sample ID:	161505-07	**Date Sampled:**	4/14/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Trichloroethene	**15.1**	ug/Kg		4/20/2016	18:49
Trichlorofluoromethane	< 4.27	ug/Kg		4/20/2016	18:49
Vinyl chloride	< 4.27	ug/Kg		4/20/2016	18:49

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**111**	85.4 - 122		4/20/2016	18:49
4-Bromofluorobenzene	**84.4**	81.1 - 115		4/20/2016	18:49
Pentafluorobenzene	**102**	90.7 - 109		4/20/2016	18:49
Toluene-D8	**93.7**	88.5 - 110		4/20/2016	18:49

Internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035

Data File: x31772.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	8R-2.6		
Lab Sample ID:	161505-08	**Date Sampled:**	4/14/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.34	ug/Kg		4/20/2016 19:14
1,1,2,2-Tetrachloroethane	< 4.34	ug/Kg		4/20/2016 19:14
1,1,2-Trichloroethane	< 4.34	ug/Kg		4/20/2016 19:14
1,1-Dichloroethane	**5.12**	ug/Kg		4/20/2016 19:14
1,1-Dichloroethene	< 4.34	ug/Kg		4/20/2016 19:14
1,2,3-Trichlorobenzene	< 10.9	ug/Kg		4/20/2016 19:14
1,2,4-Trichlorobenzene	< 10.9	ug/Kg		4/20/2016 19:14
1,2,4-Trimethylbenzene	**8.06**	ug/Kg		4/20/2016 19:14
1,2-Dibromo-3-Chloropropane	< 21.7	ug/Kg		4/20/2016 19:14
1,2-Dibromoethane	< 4.34	ug/Kg		4/20/2016 19:14
1,2-Dichlorobenzene	< 4.34	ug/Kg		4/20/2016 19:14
1,2-Dichloroethane	< 4.34	ug/Kg		4/20/2016 19:14
1,2-Dichloropropane	< 4.34	ug/Kg		4/20/2016 19:14
1,3,5-Trimethylbenzene	**3.25**	ug/Kg	J	4/20/2016 19:14
1,3-Dichlorobenzene	< 4.34	ug/Kg		4/20/2016 19:14
1,4-Dichlorobenzene	< 4.34	ug/Kg		4/20/2016 19:14
1,4-dioxane	< 43.4	ug/Kg		4/20/2016 19:14
2-Butanone	< 21.7	ug/Kg		4/20/2016 19:14
2-Hexanone	< 10.9	ug/Kg		4/20/2016 19:14
4-Methyl-2-pentanone	< 10.9	ug/Kg		4/20/2016 19:14
Acetone	**13.2**	ug/Kg	J	4/20/2016 19:14
Benzene	**2.86**	ug/Kg	J	4/20/2016 19:14
Bromochloromethane	< 10.9	ug/Kg		4/20/2016 19:14
Bromodichloromethane	< 4.34	ug/Kg		4/20/2016 19:14
Bromoform	< 10.9	ug/Kg		4/20/2016 19:14
Bromomethane	< 4.34	ug/Kg		4/20/2016 19:14
Carbon disulfide	**6.55**	ug/Kg		4/20/2016 19:14

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	8R-2.6		
Lab Sample ID:	161505-08	**Date Sampled:**	4/14/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Carbon Tetrachloride	< 4.34	ug/Kg		4/20/2016	19:14
Chlorobenzene	< 4.34	ug/Kg		4/20/2016	19:14
Chloroethane	< 4.34	ug/Kg		4/20/2016	19:14
Chloroform	< 4.34	ug/Kg		4/20/2016	19:14
Chloromethane	< 4.34	ug/Kg		4/20/2016	19:14
cis-1,2-Dichloroethene	**13.9**	ug/Kg		4/20/2016	19:14
cis-1,3-Dichloropropene	< 4.34	ug/Kg		4/20/2016	19:14
Cyclohexane	< 21.7	ug/Kg		4/20/2016	19:14
Dibromochloromethane	< 4.34	ug/Kg		4/20/2016	19:14
Dichlorodifluoromethane	< 4.34	ug/Kg		4/20/2016	19:14
Ethylbenzene	< 4.34	ug/Kg		4/20/2016	19:14
Freon 113	< 4.34	ug/Kg		4/20/2016	19:14
Isopropylbenzene	< 4.34	ug/Kg		4/20/2016	19:14
m,p-Xylene	**2.31**	ug/Kg	J	4/20/2016	19:14
Methyl acetate	< 4.34	ug/Kg		4/20/2016	19:14
Methyl tert-butyl Ether	< 4.34	ug/Kg		4/20/2016	19:14
Methylcyclohexane	< 4.34	ug/Kg		4/20/2016	19:14
Methylene chloride	< 10.9	ug/Kg		4/20/2016	19:14
Naphthalene	**7.76**	ug/Kg	J	4/20/2016	19:14
n-Butylbenzene	< 4.34	ug/Kg		4/20/2016	19:14
n-Propylbenzene	< 4.34	ug/Kg		4/20/2016	19:14
o-Xylene	< 4.34	ug/Kg		4/20/2016	19:14
p-Isopropyltoluene	< 4.34	ug/Kg		4/20/2016	19:14
sec-Butylbenzene	< 4.34	ug/Kg		4/20/2016	19:14
Styrene	< 10.9	ug/Kg		4/20/2016	19:14
tert-Butylbenzene	< 4.34	ug/Kg		4/20/2016	19:14
Tetrachloroethene	**3.09**	ug/Kg	J	4/20/2016	19:14
Toluene	**4.12**	ug/Kg	J	4/20/2016	19:14
trans-1,2-Dichloroethene	**6.50**	ug/Kg		4/20/2016	19:14
trans-1,3-Dichloropropene	< 4.34	ug/Kg		4/20/2016	19:14

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	8R-2.6		
Lab Sample ID:	161505-08	**Date Sampled:**	4/14/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Trichloroethene	**23.1**	ug/Kg		4/20/2016	19:14
Trichlorofluoromethane	< 4.34	ug/Kg		4/20/2016	19:14
Vinyl chloride	**4.53**	ug/Kg		4/20/2016	19:14

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**110**	85.4 - 122		4/20/2016	19:14
4-Bromofluorobenzene	**93.4**	81.1 - 115		4/20/2016	19:14
Pentafluorobenzene	**102**	90.7 - 109		4/20/2016	19:14
Toluene-D8	**95.4**	88.5 - 110		4/20/2016	19:14

Internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035

Data File: x31773.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	8R-2.8		
Lab Sample ID:	161505-09	**Date Sampled:**	4/15/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.14	ug/Kg		4/20/2016 19:38
1,1,2,2-Tetrachloroethane	< 4.14	ug/Kg		4/20/2016 19:38
1,1,2-Trichloroethane	< 4.14	ug/Kg		4/20/2016 19:38
1,1-Dichloroethane	< 4.14	ug/Kg		4/20/2016 19:38
1,1-Dichloroethene	< 4.14	ug/Kg		4/20/2016 19:38
1,2,3-Trichlorobenzene	< 10.3	ug/Kg		4/20/2016 19:38
1,2,4-Trichlorobenzene	< 10.3	ug/Kg		4/20/2016 19:38
1,2,4-Trimethylbenzene	**3.29**	ug/Kg	J	4/20/2016 19:38
1,2-Dibromo-3-Chloropropane	< 20.7	ug/Kg		4/20/2016 19:38
1,2-Dibromoethane	< 4.14	ug/Kg		4/20/2016 19:38
1,2-Dichlorobenzene	< 4.14	ug/Kg		4/20/2016 19:38
1,2-Dichloroethane	< 4.14	ug/Kg		4/20/2016 19:38
1,2-Dichloropropane	< 4.14	ug/Kg		4/20/2016 19:38
1,3,5-Trimethylbenzene	**2.18**	ug/Kg	J	4/20/2016 19:38
1,3-Dichlorobenzene	< 4.14	ug/Kg		4/20/2016 19:38
1,4-Dichlorobenzene	< 4.14	ug/Kg		4/20/2016 19:38
1,4-dioxane	< 41.4	ug/Kg		4/20/2016 19:38
2-Butanone	< 20.7	ug/Kg		4/20/2016 19:38
2-Hexanone	< 10.3	ug/Kg		4/20/2016 19:38
4-Methyl-2-pentanone	< 10.3	ug/Kg		4/20/2016 19:38
Acetone	< 20.7	ug/Kg		4/20/2016 19:38
Benzene	< 4.14	ug/Kg		4/20/2016 19:38
Bromochloromethane	< 10.3	ug/Kg		4/20/2016 19:38
Bromodichloromethane	< 4.14	ug/Kg		4/20/2016 19:38
Bromoform	< 10.3	ug/Kg		4/20/2016 19:38
Bromomethane	< 4.14	ug/Kg		4/20/2016 19:38
Carbon disulfide	< 4.14	ug/Kg		4/20/2016 19:38

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	8R-2.8		
Lab Sample ID:	161505-09	**Date Sampled:**	4/15/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Carbon Tetrachloride	< 4.14	ug/Kg		4/20/2016	19:38
Chlorobenzene	< 4.14	ug/Kg		4/20/2016	19:38
Chloroethane	< 4.14	ug/Kg		4/20/2016	19:38
Chloroform	< 4.14	ug/Kg		4/20/2016	19:38
Chloromethane	< 4.14	ug/Kg		4/20/2016	19:38
cis-1,2-Dichloroethene	**13.5**	ug/Kg		4/20/2016	19:38
cis-1,3-Dichloropropene	< 4.14	ug/Kg		4/20/2016	19:38
Cyclohexane	< 20.7	ug/Kg		4/20/2016	19:38
Dibromochloromethane	< 4.14	ug/Kg		4/20/2016	19:38
Dichlorodifluoromethane	< 4.14	ug/Kg		4/20/2016	19:38
Ethylbenzene	< 4.14	ug/Kg		4/20/2016	19:38
Freon 113	< 4.14	ug/Kg		4/20/2016	19:38
Isopropylbenzene	< 4.14	ug/Kg		4/20/2016	19:38
m,p-Xylene	< 4.14	ug/Kg		4/20/2016	19:38
Methyl acetate	< 4.14	ug/Kg		4/20/2016	19:38
Methyl tert-butyl Ether	< 4.14	ug/Kg		4/20/2016	19:38
Methylcyclohexane	< 4.14	ug/Kg		4/20/2016	19:38
Methylene chloride	< 10.3	ug/Kg		4/20/2016	19:38
Naphthalene	< 10.3	ug/Kg		4/20/2016	19:38
n-Butylbenzene	< 4.14	ug/Kg		4/20/2016	19:38
n-Propylbenzene	< 4.14	ug/Kg		4/20/2016	19:38
o-Xylene	< 4.14	ug/Kg		4/20/2016	19:38
p-Isopropyltoluene	< 4.14	ug/Kg		4/20/2016	19:38
sec-Butylbenzene	< 4.14	ug/Kg		4/20/2016	19:38
Styrene	< 10.3	ug/Kg		4/20/2016	19:38
tert-Butylbenzene	< 4.14	ug/Kg		4/20/2016	19:38
Tetrachloroethene	< 4.14	ug/Kg		4/20/2016	19:38
Toluene	**2.30**	ug/Kg	J	4/20/2016	19:38
trans-1,2-Dichloroethene	< 4.14	ug/Kg		4/20/2016	19:38
trans-1,3-Dichloropropene	< 4.14	ug/Kg		4/20/2016	19:38

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier: 8R-2.8
Lab Sample ID: 161505-09 **Date Sampled:** 4/15/2016
Matrix: Soil **Date Received:** 4/19/2016

Trichloroethene	**5.28**	ug/Kg		4/20/2016	19:38
Trichlorofluoromethane	< 4.14	ug/Kg		4/20/2016	19:38
Vinyl chloride	< 4.14	ug/Kg		4/20/2016	19:38

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**110**	85.4 - 122		4/20/2016	19:38
4-Bromofluorobenzene	**92.2**	81.1 - 115		4/20/2016	19:38
Pentafluorobenzene	**102**	90.7 - 109		4/20/2016	19:38
Toluene-D8	**94.9**	88.5 - 110		4/20/2016	19:38

Method Reference(s): EPA 8260C
EPA 5035
Data File: x31774.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	C-8.1		
Lab Sample ID:	161505-10	**Date Sampled:**	4/14/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**4.80**	mg/Kg		4/21/2016 20:39
Barium	**43.7**	mg/Kg		4/21/2016 20:39
Beryllium	**0.278**	mg/Kg		4/21/2016 20:39
Cadmium	**0.919**	mg/Kg		4/21/2016 20:39
Chromium	**49.3**	mg/Kg		4/21/2016 20:39
Copper	**33.9**	mg/Kg		4/21/2016 20:39
Lead	**77.4**	mg/Kg		4/21/2016 20:39
Manganese	**263**	mg/Kg		4/21/2016 20:39
Nickel	**32.0**	mg/Kg		4/21/2016 20:39
Selenium	**0.635**	mg/Kg		4/25/2016 13:43
Silver	< 0.547	mg/Kg		4/21/2016 20:39
Zinc	**76.8**	mg/Kg		4/21/2016 20:39

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 4/20/2016
Data File: 042116b

Report Prepared Wednesday, April 27, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	C-8.1		
Lab Sample ID:	161505-10	**Date Sampled:**	4/14/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.221**	mg/Kg		4/22/2016 15:46

Method Reference(s): EPA 7471B
Preparation Date: 4/22/2016
Data File: Hg160422A

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Wednesday, April 27, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	C-8.1		
Lab Sample ID:	161505-10	**Date Sampled:**	4/14/2016
Matrix:	Soil	**Date Received:**	4/19/2016

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.641	mg/Kg		4/27/2016 10:35
PCB-1221	< 0.641	mg/Kg		4/27/2016 10:35
PCB-1232	< 0.641	mg/Kg		4/27/2016 10:35
PCB-1242	< 0.641	mg/Kg		4/27/2016 10:35
PCB-1248	< 0.641	mg/Kg		4/27/2016 10:35
PCB-1254	**4.01**	mg/Kg		4/27/2016 10:35
PCB-1260	< 0.641	mg/Kg		4/27/2016 10:35
PCB-1262	< 0.641	mg/Kg		4/27/2016 10:35
PCB-1268	< 0.641	mg/Kg		4/27/2016 10:35

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	NC	0.53 - 137		4/27/2016 10:35
Tetrachloro-m-xylene	NC	0 - 138		4/27/2016 10:35

Method Reference(s): EPA 8082A
EPA 3550C

Preparation Date: 4/21/2016

Report Prepared Wednesday, April 27, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	C-8.1		
Lab Sample ID:	161505-10	**Date Sampled:**	4/14/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 32.0	ug/Kg		4/25/2016 11:16
4,4-DDE	**124**	ug/Kg	P	4/25/2016 11:16
4,4-DDT	**286**	ug/Kg		4/25/2016 11:16
Aldrin	< 32.0	ug/Kg		4/25/2016 11:16
alpha-BHC	< 32.0	ug/Kg		4/25/2016 11:16
beta-BHC	< 32.0	ug/Kg		4/25/2016 11:16
cis-Chlordane	**29.1**	ug/Kg	JP	4/25/2016 11:16
delta-BHC	< 32.0	ug/Kg		4/25/2016 11:16
Dieldrin	< 32.0	ug/Kg		4/25/2016 11:16
Endosulfan I	< 32.0	ug/Kg		4/25/2016 11:16
Endosulfan II	**127**	ug/Kg	P	4/25/2016 11:16
Endosulfan Sulfate	**125**	ug/Kg	P	4/25/2016 11:16
Endrin	**89.3**	ug/Kg	P	4/25/2016 11:16
Endrin Aldehyde	**26.4**	ug/Kg	JP	4/25/2016 11:16
Endrin Ketone	**28.9**	ug/Kg	JP	4/25/2016 11:16
gamma-BHC (Lindane)	< 32.0	ug/Kg		4/25/2016 11:16
Heptachlor	< 32.0	ug/Kg		4/25/2016 11:16
Heptachlor Epoxide	**24.9**	ug/Kg	JP	4/25/2016 11:16
Methoxychlor	**91.9**	ug/Kg		4/25/2016 11:16
Toxaphene	< 320	ug/Kg		4/25/2016 11:16
trans-Chlordane	**99.8**	ug/Kg	P	4/25/2016 11:16

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	NC	9.5 - 93.3		4/25/2016 11:16
Tetrachloro-m-xylene (1)	NC	13.2 - 96.3		4/25/2016 11:16

Method Reference(s): EPA 8081B
EPA 3550C

Preparation Date: 4/21/2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	C-8.1		
Lab Sample ID:	161505-10	**Date Sampled:**	4/14/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 3220	ug/Kg		4/26/2016 08:29
1,2,4,5-Tetrachlorobenzene	< 3220	ug/Kg		4/26/2016 08:29
1,2,4-Trichlorobenzene	< 3220	ug/Kg		4/26/2016 08:29
1,2-Dichlorobenzene	< 3220	ug/Kg		4/26/2016 08:29
1,3-Dichlorobenzene	< 3220	ug/Kg		4/26/2016 08:29
1,4-Dichlorobenzene	< 3220	ug/Kg		4/26/2016 08:29
2,3,4,6-Tetrachlorophenol	< 3220	ug/Kg		4/26/2016 08:29
2,4,5-Trichlorophenol	< 6450	ug/Kg		4/26/2016 08:29
2,4,6-Trichlorophenol	< 3220	ug/Kg		4/26/2016 08:29
2,4-Dichlorophenol	< 3220	ug/Kg		4/26/2016 08:29
2,4-Dimethylphenol	< 3220	ug/Kg		4/26/2016 08:29
2,4-Dinitrophenol	< 6450	ug/Kg		4/26/2016 08:29
2,4-Dinitrotoluene	< 3220	ug/Kg		4/26/2016 08:29
2,6-Dinitrotoluene	< 3220	ug/Kg		4/26/2016 08:29
2-Chloronaphthalene	< 3220	ug/Kg		4/26/2016 08:29
2-Chlorophenol	< 3220	ug/Kg		4/26/2016 08:29
2-Methylnapthalene	< 3220	ug/Kg		4/26/2016 08:29
2-Methylphenol	< 3220	ug/Kg		4/26/2016 08:29
2-Nitroaniline	< 6450	ug/Kg		4/26/2016 08:29
2-Nitrophenol	< 3220	ug/Kg		4/26/2016 08:29
3&4-Methylphenol	< 3220	ug/Kg		4/26/2016 08:29
3,3'-Dichlorobenzidine	< 3220	ug/Kg		4/26/2016 08:29
3-Nitroaniline	< 6450	ug/Kg		4/26/2016 08:29
4,6-Dinitro-2-methylphenol	< 6450	ug/Kg		4/26/2016 08:29
4-Bromophenyl phenyl ether	< 3220	ug/Kg		4/26/2016 08:29
4-Chloro-3-methylphenol	< 3220	ug/Kg		4/26/2016 08:29
4-Chloroaniline	< 3220	ug/Kg		4/26/2016 08:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	C-8.1		
Lab Sample ID:	161505-10	**Date Sampled:**	4/14/2016
Matrix:	Soil	**Date Received:**	4/19/2016

4-Chlorophenyl phenyl ether	< 3220	ug/Kg	4/26/2016	08:29
4-Nitroaniline	< 6450	ug/Kg	4/26/2016	08:29
4-Nitrophenol	< 6450	ug/Kg	4/26/2016	08:29
Acenaphthene	< 3220	ug/Kg	4/26/2016	08:29
Acenaphthylene	< 3220	ug/Kg	4/26/2016	08:29
Acetophenone	< 3220	ug/Kg	4/26/2016	08:29
Anthracene	< 3220	ug/Kg	4/26/2016	08:29
Atrazine	< 3220	ug/Kg	4/26/2016	08:29
Benzaldehyde	< 3220	ug/Kg	4/26/2016	08:29
Benzo (a) anthracene	**20300**	ug/Kg	4/26/2016	08:29
Benzo (a) pyrene	**28800**	ug/Kg	4/26/2016	08:29
Benzo (b) fluoranthene	**43900**	ug/Kg	4/26/2016	08:29
Benzo (g,h,i) perylene	**26100**	ug/Kg	4/26/2016	08:29
Benzo (k) fluoranthene	**17400**	ug/Kg	4/26/2016	08:29
Bis (2-chloroethoxy) methane	< 3220	ug/Kg	4/26/2016	08:29
Bis (2-chloroethyl) ether	< 3220	ug/Kg	4/26/2016	08:29
Bis (2-chloroisopropyl) ether	< 3220	ug/Kg	4/26/2016	08:29
Bis (2-ethylhexyl) phthalate	< 3220	ug/Kg	4/26/2016	08:29
Butylbenzylphthalate	< 3220	ug/Kg	4/26/2016	08:29
Caprolactam	< 3220	ug/Kg	4/26/2016	08:29
Carbazole	< 3220	ug/Kg	4/26/2016	08:29
Chrysene	**26700**	ug/Kg	4/26/2016	08:29
Dibenz (a,h) anthracene	**7520**	ug/Kg	4/26/2016	08:29
Dibenzofuran	< 3220	ug/Kg	4/26/2016	08:29
Diethyl phthalate	< 3220	ug/Kg	4/26/2016	08:29
Dimethyl phthalate	< 6450	ug/Kg	4/26/2016	08:29
Di-n-butyl phthalate	< 3220	ug/Kg	4/26/2016	08:29
Di-n-octylphthalate	< 3220	ug/Kg	4/26/2016	08:29
Fluoranthene	**20100**	ug/Kg	4/26/2016	08:29
Fluorene	< 3220	ug/Kg	4/26/2016	08:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier: C-8.1
Lab Sample ID: 161505-10 **Date Sampled:** 4/14/2016
Matrix: Soil **Date Received:** 4/19/2016

Hexachlorobenzene	< 3220	ug/Kg	4/26/2016	08:29
Hexachlorobutadiene	< 3220	ug/Kg	4/26/2016	08:29
Hexachlorocyclopentadiene	< 3220	ug/Kg	4/26/2016	08:29
Hexachloroethane	< 3220	ug/Kg	4/26/2016	08:29
Indeno (1,2,3-cd) pyrene	**31300**	ug/Kg	4/26/2016	08:29
Isophorone	< 3220	ug/Kg	4/26/2016	08:29
Naphthalene	< 3220	ug/Kg	4/26/2016	08:29
Nitrobenzene	< 3220	ug/Kg	4/26/2016	08:29
N-Nitroso-di-n-propylamine	< 3220	ug/Kg	4/26/2016	08:29
N-Nitrosodiphenylamine	< 3220	ug/Kg	4/26/2016	08:29
Pentachlorophenol	< 6450	ug/Kg	4/26/2016	08:29
Phenanthrene	**4420**	ug/Kg	4/26/2016	08:29
Phenol	< 3220	ug/Kg	4/26/2016	08:29
Pyrene	**19900**	ug/Kg	4/26/2016	08:29

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	NC	26.8 - 101		4/26/2016	08:29
2-Fluorobiphenyl	NC	34.4 - 98.8		4/26/2016	08:29
2-Fluorophenol	NC	31.4 - 89.7		4/26/2016	08:29
Nitrobenzene-d5	NC	37.1 - 83.6		4/26/2016	08:29
Phenol-d5	NC	36.3 - 94.5		4/26/2016	08:29
Terphenyl-d14	NC	51.8 - 112		4/26/2016	08:29

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 4/22/2016
Data File: B11283.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	C-8.1		
Lab Sample ID:	161505-10	**Date Sampled:**	4/14/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	**0.443**	mg/Kg	J	4/25/2016

Method Reference(s): EPA 9014
Preparation Date: 4/21/2016

Report Prepared Wednesday, April 27, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	C-8.2		
Lab Sample ID:	161505-11	**Date Sampled:**	4/13/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**18.5**	mg/Kg		4/21/2016 20:43
Barium	**185**	mg/Kg		4/21/2016 20:43
Beryllium	**0.656**	mg/Kg		4/21/2016 20:43
Cadmium	**0.408**	mg/Kg		4/21/2016 20:43
Chromium	**18.3**	mg/Kg		4/21/2016 20:43
Copper	**30.8**	mg/Kg		4/21/2016 20:43
Lead	**118**	mg/Kg		4/21/2016 20:43
Manganese	**264**	mg/Kg		4/21/2016 20:43
Nickel	**14.3**	mg/Kg		4/21/2016 20:43
Selenium	**0.610**	mg/Kg	J	4/25/2016 13:47
Silver	< 0.617	mg/Kg		4/21/2016 20:43
Zinc	**77.1**	mg/Kg		4/21/2016 20:43

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 4/20/2016
Data File: 042116b

Report Prepared Wednesday, April 27, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	C-8.2		
Lab Sample ID:	161505-11	**Date Sampled:**	4/13/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0776**	mg/Kg		4/22/2016 15:49

Method Reference(s): EPA 7471B
Preparation Date: 4/22/2016
Data File: Hg160422A

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Report Prepared Wednesday, April 27, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	C-8.2		
Lab Sample ID:	161505-11	**Date Sampled:**	4/13/2016
Matrix:	Soil	**Date Received:**	4/19/2016

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0352	mg/Kg		4/26/2016 10:31
PCB-1221	< 0.0352	mg/Kg		4/26/2016 10:31
PCB-1232	< 0.0352	mg/Kg		4/26/2016 10:31
PCB-1242	< 0.0352	mg/Kg		4/26/2016 10:31
PCB-1248	< 0.0352	mg/Kg		4/26/2016 10:31
PCB-1254	**0.232**	mg/Kg		4/26/2016 10:31
PCB-1260	< 0.0352	mg/Kg		4/26/2016 10:31
PCB-1262	< 0.0352	mg/Kg		4/26/2016 10:31
PCB-1268	< 0.0352	mg/Kg		4/26/2016 10:31

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**45.9**	0.53 - 137		4/26/2016 10:31
Tetrachloro-m-xylene	**41.1**	0 - 138		4/26/2016 10:31

Method Reference(s): EPA 8082A
EPA 3550C

Preparation Date: 4/21/2016

Report Prepared Wednesday, April 27, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	C-8.2		
Lab Sample ID:	161505-11	**Date Sampled:**	4/13/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	**11.4**	ug/Kg	P	4/21/2016 16:40
4,4-DDE	**19.8**	ug/Kg		4/21/2016 16:40
4,4-DDT	**34.6**	ug/Kg		4/21/2016 16:40
Aldrin	< 3.52	ug/Kg		4/21/2016 16:40
alpha-BHC	< 3.52	ug/Kg		4/21/2016 16:40
beta-BHC	< 3.52	ug/Kg		4/21/2016 16:40
cis-Chlordane	**4.60**	ug/Kg	P	4/21/2016 16:40
delta-BHC	< 3.52	ug/Kg		4/21/2016 16:40
Dieldrin	**15.6**	ug/Kg	P	4/21/2016 16:40
Endosulfan I	< 3.52	ug/Kg		4/21/2016 16:40
Endosulfan II	**20.6**	ug/Kg		4/21/2016 16:40
Endosulfan Sulfate	**22.6**	ug/Kg	P	4/21/2016 16:40
Endrin	**21.4**	ug/Kg		4/21/2016 16:40
Endrin Aldehyde	< 3.52	ug/Kg		4/21/2016 16:40
Endrin Ketone	**6.82**	ug/Kg	P	4/21/2016 16:40
gamma-BHC (Lindane)	< 3.52	ug/Kg		4/21/2016 16:40
Heptachlor	< 3.52	ug/Kg		4/21/2016 16:40
Heptachlor Epoxide	**2.16**	ug/Kg	JP	4/21/2016 16:40
Methoxychlor	**8.33**	ug/Kg	P	4/21/2016 16:40
Toxaphene	< 35.2	ug/Kg		4/21/2016 16:40
trans-Chlordane	**10.3**	ug/Kg	P	4/21/2016 16:40

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**98.4**	9.5 - 93.3	*	4/21/2016 16:40
Tetrachloro-m-xylene (1)	**37.2**	13.2 - 96.3		4/21/2016 16:40

Method Reference(s): EPA 8081B
EPA 3550C

Preparation Date: 4/21/2016

Report Prepared Wednesday, April 27, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	C-8.2		
Lab Sample ID:	161505-11	**Date Sampled:**	4/13/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 354	ug/Kg		4/25/2016 17:48
1,2,4,5-Tetrachlorobenzene	< 354	ug/Kg		4/25/2016 17:48
1,2,4-Trichlorobenzene	< 354	ug/Kg		4/25/2016 17:48
1,2-Dichlorobenzene	< 354	ug/Kg		4/25/2016 17:48
1,3-Dichlorobenzene	< 354	ug/Kg		4/25/2016 17:48
1,4-Dichlorobenzene	< 354	ug/Kg		4/25/2016 17:48
2,3,4,6-Tetrachlorophenol	< 354	ug/Kg		4/25/2016 17:48
2,4,5-Trichlorophenol	< 708	ug/Kg		4/25/2016 17:48
2,4,6-Trichlorophenol	< 354	ug/Kg		4/25/2016 17:48
2,4-Dichlorophenol	< 354	ug/Kg		4/25/2016 17:48
2,4-Dimethylphenol	< 354	ug/Kg		4/25/2016 17:48
2,4-Dinitrophenol	< 708	ug/Kg		4/25/2016 17:48
2,4-Dinitrotoluene	< 354	ug/Kg		4/25/2016 17:48
2,6-Dinitrotoluene	< 354	ug/Kg		4/25/2016 17:48
2-Chloronaphthalene	< 354	ug/Kg		4/25/2016 17:48
2-Chlorophenol	< 354	ug/Kg		4/25/2016 17:48
2-Methylnapthalene	< 354	ug/Kg		4/25/2016 17:48
2-Methylphenol	< 354	ug/Kg		4/25/2016 17:48
2-Nitroaniline	< 708	ug/Kg		4/25/2016 17:48
2-Nitrophenol	< 354	ug/Kg		4/25/2016 17:48
3&4-Methylphenol	< 354	ug/Kg		4/25/2016 17:48
3,3'-Dichlorobenzidine	< 354	ug/Kg		4/25/2016 17:48
3-Nitroaniline	< 708	ug/Kg		4/25/2016 17:48
4,6-Dinitro-2-methylphenol	< 708	ug/Kg		4/25/2016 17:48
4-Bromophenyl phenyl ether	< 354	ug/Kg		4/25/2016 17:48
4-Chloro-3-methylphenol	< 354	ug/Kg		4/25/2016 17:48
4-Chloroaniline	< 354	ug/Kg		4/25/2016 17:48

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	C-8.2		
Lab Sample ID:	161505-11	**Date Sampled:**	4/13/2016
Matrix:	Soil	**Date Received:**	4/19/2016

4-Chlorophenyl phenyl ether	< 354	ug/Kg	4/25/2016	17:48
4-Nitroaniline	< 708	ug/Kg	4/25/2016	17:48
4-Nitrophenol	< 708	ug/Kg	4/25/2016	17:48
Acenaphthene	< 354	ug/Kg	4/25/2016	17:48
Acenaphthylene	< 354	ug/Kg	4/25/2016	17:48
Acetophenone	< 354	ug/Kg	4/25/2016	17:48
Anthracene	< 354	ug/Kg	4/25/2016	17:48
Atrazine	< 354	ug/Kg	4/25/2016	17:48
Benzaldehyde	< 354	ug/Kg	4/25/2016	17:48
Benzo (a) anthracene	**1450**	ug/Kg	4/25/2016	17:48
Benzo (a) pyrene	**2310**	ug/Kg	4/25/2016	17:48
Benzo (b) fluoranthene	**3050**	ug/Kg	4/25/2016	17:48
Benzo (g,h,i) perylene	**2360**	ug/Kg	4/25/2016	17:48
Benzo (k) fluoranthene	**1740**	ug/Kg	4/25/2016	17:48
Bis (2-chloroethoxy) methane	< 354	ug/Kg	4/25/2016	17:48
Bis (2-chloroethyl) ether	< 354	ug/Kg	4/25/2016	17:48
Bis (2-chloroisopropyl) ether	< 354	ug/Kg	4/25/2016	17:48
Bis (2-ethylhexyl) phthalate	< 354	ug/Kg	4/25/2016	17:48
Butylbenzylphthalate	< 354	ug/Kg	4/25/2016	17:48
Caprolactam	< 354	ug/Kg	4/25/2016	17:48
Carbazole	< 354	ug/Kg	4/25/2016	17:48
Chrysene	**1870**	ug/Kg	4/25/2016	17:48
Dibenz (a,h) anthracene	**689**	ug/Kg	4/25/2016	17:48
Dibenzofuran	< 354	ug/Kg	4/25/2016	17:48
Diethyl phthalate	< 354	ug/Kg	4/25/2016	17:48
Dimethyl phthalate	< 708	ug/Kg	4/25/2016	17:48
Di-n-butyl phthalate	< 354	ug/Kg	4/25/2016	17:48
Di-n-octylphthalate	< 354	ug/Kg	4/25/2016	17:48
Fluoranthene	**1400**	ug/Kg	4/25/2016	17:48
Fluorene	< 354	ug/Kg	4/25/2016	17:48

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 1440 Empire Blvd

Sample Identifier: C-8.2
Lab Sample ID: 161505-11
Matrix: Soil
Date Sampled: 4/13/2016
Date Received: 4/19/2016

Hexachlorobenzene	< 354	ug/Kg			4/25/2016 17:48
Hexachlorobutadiene	< 354	ug/Kg			4/25/2016 17:48
Hexachlorocyclopentadiene	< 354	ug/Kg			4/25/2016 17:48
Hexachloroethane	< 354	ug/Kg			4/25/2016 17:48
Indeno (1,2,3-cd) pyrene	**2920**	ug/Kg			4/25/2016 17:48
Isophorone	< 354	ug/Kg			4/25/2016 17:48
Naphthalene	< 354	ug/Kg			4/25/2016 17:48
Nitrobenzene	< 354	ug/Kg			4/25/2016 17:48
N-Nitroso-di-n-propylamine	< 354	ug/Kg			4/25/2016 17:48
N-Nitrosodiphenylamine	< 354	ug/Kg			4/25/2016 17:48
Pentachlorophenol	< 708	ug/Kg			4/25/2016 17:48
Phenanthrene	**306**	ug/Kg		J	4/25/2016 17:48
Phenol	< 354	ug/Kg			4/25/2016 17:48
Pyrene	**1410**	ug/Kg			4/25/2016 17:48

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**58.3**	26.8 - 101		4/25/2016 17:48
2-Fluorobiphenyl	**49.2**	34.4 - 98.8		4/25/2016 17:48
2-Fluorophenol	**47.9**	31.4 - 89.7		4/25/2016 17:48
Nitrobenzene-d5	**45.0**	37.1 - 83.6		4/25/2016 17:48
Phenol-d5	**49.8**	36.3 - 94.5		4/25/2016 17:48
Terphenyl-d14	**58.2**	51.8 - 112		4/25/2016 17:48

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 4/22/2016
Data File: B11257.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	C-8.2		
Lab Sample ID:	161505-11	**Date Sampled:**	4/13/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	**0.562**	mg/Kg		4/25/2016

Method Reference(s): EPA 9014
Preparation Date: 4/21/2016

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Report Prepared Wednesday, April 27, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	C-8.3		
Lab Sample ID:	161505-12	**Date Sampled:**	4/15/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**4.91**	mg/Kg		4/21/2016 20:48
Barium	**45.5**	mg/Kg		4/21/2016 20:48
Beryllium	**0.271**	mg/Kg		4/21/2016 20:48
Cadmium	**0.789**	mg/Kg		4/21/2016 20:48
Chromium	**43.8**	mg/Kg	D	4/21/2016 20:48
Copper	**39.0**	mg/Kg		4/21/2016 20:48
Lead	**87.5**	mg/Kg		4/21/2016 20:48
Manganese	**320**	mg/Kg	M	4/21/2016 20:48
Nickel	**30.7**	mg/Kg		4/21/2016 20:48
Selenium	**0.857**	mg/Kg	D	4/25/2016 13:51
Silver	< 0.539	mg/Kg		4/21/2016 20:48
Zinc	**88.7**	mg/Kg	D	4/21/2016 20:48

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 4/20/2016
Data File: 042116b

Report Prepared Wednesday, April 27, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	C-8.3		
Lab Sample ID:	161505-12	**Date Sampled:**	4/15/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0740**	mg/Kg		4/22/2016 15:52

Method Reference(s): EPA 7471B
Preparation Date: 4/22/2016
Data File: Hg160422A

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Report Prepared Wednesday, April 27, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	C-8.3		
Lab Sample ID:	161505-12	**Date Sampled:**	4/15/2016
Matrix:	Soil	**Date Received:**	4/19/2016

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.158	mg/Kg		4/27/2016 11:21
PCB-1221	< 0.158	mg/Kg		4/27/2016 11:21
PCB-1232	< 0.158	mg/Kg		4/27/2016 11:21
PCB-1242	< 0.158	mg/Kg		4/27/2016 11:21
PCB-1248	< 0.158	mg/Kg		4/27/2016 11:21
PCB-1254	**0.888**	mg/Kg		4/27/2016 11:21
PCB-1260	< 0.158	mg/Kg		4/27/2016 11:21
PCB-1262	< 0.158	mg/Kg		4/27/2016 11:21
PCB-1268	< 0.158	mg/Kg		4/27/2016 11:21

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**63.2**	0.53 - 137		4/27/2016 11:21
Tetrachloro-m-xylene	**52.1**	0 - 138		4/27/2016 11:21

Method Reference(s): EPA 8082A
EPA 3550C

Preparation Date: 4/21/2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	C-8.3		
Lab Sample ID:	161505-12	**Date Sampled:**	4/15/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	**17.4**	ug/Kg	P	4/25/2016 11:30
4,4-DDE	**43.8**	ug/Kg	P	4/25/2016 11:30
4,4-DDT	**9.13**	ug/Kg	P	4/25/2016 11:30
Aldrin	< 6.33	ug/Kg		4/25/2016 11:30
alpha-BHC	< 6.33	ug/Kg		4/25/2016 11:30
beta-BHC	**8.37**	ug/Kg	P	4/25/2016 11:30
cis-Chlordane	**61.6**	ug/Kg	P	4/25/2016 11:30
delta-BHC	**4.00**	ug/Kg	JP	4/25/2016 11:30
Dieldrin	**46.7**	ug/Kg	P	4/25/2016 11:30
Endosulfan I	< 6.33	ug/Kg		4/25/2016 11:30
Endosulfan II	**31.3**	ug/Kg	P	4/25/2016 11:30
Endosulfan Sulfate	**12.8**	ug/Kg	P	4/25/2016 11:30
Endrin	**43.0**	ug/Kg		4/25/2016 11:30
Endrin Aldehyde	**6.08**	ug/Kg	JP	4/25/2016 11:30
Endrin Ketone	**9.43**	ug/Kg	P	4/25/2016 11:30
gamma-BHC (Lindane)	< 6.33	ug/Kg		4/25/2016 11:30
Heptachlor	< 6.33	ug/Kg		4/25/2016 11:30
Heptachlor Epoxide	**74.1**	ug/Kg	P	4/25/2016 11:30
Methoxychlor	**15.8**	ug/Kg	P	4/25/2016 11:30
Toxaphene	< 63.3	ug/Kg		4/25/2016 11:30
trans-Chlordane	**42.7**	ug/Kg	P	4/25/2016 11:30

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**517**	9.5 - 93.3	*	4/25/2016 11:30
Tetrachloro-m-xylene (1)	**46.4**	13.2 - 96.3		4/25/2016 11:30

Method Reference(s): EPA 8081B
EPA 3550C

Preparation Date: 4/21/2016

Report Prepared Wednesday, April 27, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	C-8.3		
Lab Sample ID:	161505-12	**Date Sampled:**	4/15/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 3160	ug/Kg		4/26/2016 08:58
1,2,4,5-Tetrachlorobenzene	< 3160	ug/Kg		4/26/2016 08:58
1,2,4-Trichlorobenzene	< 3160	ug/Kg		4/26/2016 08:58
1,2-Dichlorobenzene	< 3160	ug/Kg		4/26/2016 08:58
1,3-Dichlorobenzene	< 3160	ug/Kg		4/26/2016 08:58
1,4-Dichlorobenzene	< 3160	ug/Kg		4/26/2016 08:58
2,3,4,6-Tetrachlorophenol	< 3160	ug/Kg		4/26/2016 08:58
2,4,5-Trichlorophenol	< 6320	ug/Kg		4/26/2016 08:58
2,4,6-Trichlorophenol	< 3160	ug/Kg		4/26/2016 08:58
2,4-Dichlorophenol	< 3160	ug/Kg		4/26/2016 08:58
2,4-Dimethylphenol	< 3160	ug/Kg		4/26/2016 08:58
2,4-Dinitrophenol	< 6320	ug/Kg		4/26/2016 08:58
2,4-Dinitrotoluene	< 3160	ug/Kg		4/26/2016 08:58
2,6-Dinitrotoluene	< 3160	ug/Kg		4/26/2016 08:58
2-Chloronaphthalene	< 3160	ug/Kg		4/26/2016 08:58
2-Chlorophenol	< 3160	ug/Kg		4/26/2016 08:58
2-Methylnapthalene	< 3160	ug/Kg		4/26/2016 08:58
2-Methylphenol	< 3160	ug/Kg		4/26/2016 08:58
2-Nitroaniline	< 6320	ug/Kg		4/26/2016 08:58
2-Nitrophenol	< 3160	ug/Kg		4/26/2016 08:58
3&4-Methylphenol	< 3160	ug/Kg		4/26/2016 08:58
3,3'-Dichlorobenzidine	< 3160	ug/Kg		4/26/2016 08:58
3-Nitroaniline	< 6320	ug/Kg		4/26/2016 08:58
4,6-Dinitro-2-methylphenol	< 6320	ug/Kg		4/26/2016 08:58
4-Bromophenyl phenyl ether	< 3160	ug/Kg		4/26/2016 08:58
4-Chloro-3-methylphenol	< 3160	ug/Kg		4/26/2016 08:58
4-Chloroaniline	< 3160	ug/Kg		4/26/2016 08:58

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	C-8.3		
Lab Sample ID:	161505-12	**Date Sampled:**	4/15/2016
Matrix:	Soil	**Date Received:**	4/19/2016

4-Chlorophenyl phenyl ether	< 3160	ug/Kg		4/26/2016	08:58
4-Nitroaniline	< 6320	ug/Kg		4/26/2016	08:58
4-Nitrophenol	< 6320	ug/Kg		4/26/2016	08:58
Acenaphthene	< 3160	ug/Kg		4/26/2016	08:58
Acenaphthylene	< 3160	ug/Kg		4/26/2016	08:58
Acetophenone	< 3160	ug/Kg		4/26/2016	08:58
Anthracene	**2120**	ug/Kg	J	4/26/2016	08:58
Atrazine	< 3160	ug/Kg		4/26/2016	08:58
Benzaldehyde	< 3160	ug/Kg		4/26/2016	08:58
Benzo (a) anthracene	**26700**	ug/Kg		4/26/2016	08:58
Benzo (a) pyrene	**38100**	ug/Kg		4/26/2016	08:58
Benzo (b) fluoranthene	**52900**	ug/Kg		4/26/2016	08:58
Benzo (g,h,i) perylene	**34200**	ug/Kg		4/26/2016	08:58
Benzo (k) fluoranthene	**26300**	ug/Kg		4/26/2016	08:58
Bis (2-chloroethoxy) methane	< 3160	ug/Kg		4/26/2016	08:58
Bis (2-chloroethyl) ether	< 3160	ug/Kg		4/26/2016	08:58
Bis (2-chloroisopropyl) ether	< 3160	ug/Kg		4/26/2016	08:58
Bis (2-ethylhexyl) phthalate	< 3160	ug/Kg		4/26/2016	08:58
Butylbenzylphthalate	< 3160	ug/Kg		4/26/2016	08:58
Caprolactam	< 3160	ug/Kg		4/26/2016	08:58
Carbazole	< 3160	ug/Kg		4/26/2016	08:58
Chrysene	**33900**	ug/Kg		4/26/2016	08:58
Dibenz (a,h) anthracene	**10900**	ug/Kg		4/26/2016	08:58
Dibenzofuran	< 3160	ug/Kg		4/26/2016	08:58
Diethyl phthalate	< 3160	ug/Kg		4/26/2016	08:58
Dimethyl phthalate	< 6320	ug/Kg		4/26/2016	08:58
Di-n-butyl phthalate	< 3160	ug/Kg		4/26/2016	08:58
Di-n-octylphthalate	< 3160	ug/Kg		4/26/2016	08:58
Fluoranthene	**31000**	ug/Kg		4/26/2016	08:58
Fluorene	< 3160	ug/Kg		4/26/2016	08:58

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier: C-8.3
Lab Sample ID: 161505-12 **Date Sampled:** 4/15/2016
Matrix: Soil **Date Received:** 4/19/2016

Hexachlorobenzene	< 3160	ug/Kg	4/26/2016	08:58
Hexachlorobutadiene	< 3160	ug/Kg	4/26/2016	08:58
Hexachlorocyclopentadiene	< 3160	ug/Kg	4/26/2016	08:58
Hexachloroethane	< 3160	ug/Kg	4/26/2016	08:58
Indeno (1,2,3-cd) pyrene	**43100**	ug/Kg	4/26/2016	08:58
Isophorone	< 3160	ug/Kg	4/26/2016	08:58
Naphthalene	< 3160	ug/Kg	4/26/2016	08:58
Nitrobenzene	< 3160	ug/Kg	4/26/2016	08:58
N-Nitroso-di-n-propylamine	< 3160	ug/Kg	4/26/2016	08:58
N-Nitrosodiphenylamine	< 3160	ug/Kg	4/26/2016	08:58
Pentachlorophenol	< 6320	ug/Kg	4/26/2016	08:58
Phenanthrene	**9590**	ug/Kg	4/26/2016	08:58
Phenol	< 3160	ug/Kg	4/26/2016	08:58
Pyrene	**28500**	ug/Kg	4/26/2016	08:58

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	NC	26.8 - 101		4/26/2016	08:58
2-Fluorobiphenyl	NC	34.4 - 98.8		4/26/2016	08:58
2-Fluorophenol	NC	31.4 - 89.7		4/26/2016	08:58
Nitrobenzene-d5	NC	37.1 - 83.6		4/26/2016	08:58
Phenol-d5	NC	36.3 - 94.5		4/26/2016	08:58
Terphenyl-d14	NC	51.8 - 112		4/26/2016	08:58

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 4/22/2016
Data File: B11284.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 161505

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	C-8.3		
Lab Sample ID:	161505-12	**Date Sampled:**	4/15/2016
Matrix:	Soil	**Date Received:**	4/19/2016

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	**0.560**	mg/Kg		4/25/2016

Method Reference(s): EPA 9014
Preparation Date: 4/21/2016

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Report Prepared Wednesday, April 27, 2016

PARADIGM
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Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term, or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.

Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

1 of 3

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:	INVOICE TO:	
CLIENT: Ravi	CLIENT:	LAB PROJECT ID: 16150S
ADDRESS:	ADDRESS:	
CITY: STATE: ZIP:	CITY: STATE: ZIP:	Quotation #:
PHONE: 585-223-3660	PHONE:	Email: pmorton@raviteng.com
ATTN: Lynn Zicari	ATTN:	lzicari@raviteng.com

PROJECT REFERENCE: 1440 Empire Blvd

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL/CP-51 VOA	TCL SVOC	Pest	Silvex	PCBs	Part 375 Metals	Cr+6	TCN			REMARKS	PARADIGM LAB SAMPLE NUMBER
1	4/11/16	16:00		X	8R-1.1	SO	1	X										C-8.2 = 8R-1.1, 8R-1.2, 8R-1.3, 8R-1.4	01
2	4/11/16	"		X	8R-1.2	SO	1	X											02
3	4/13/16	"		X	8R-1.3	SO	1	X											03
4	4/13/16	"		X	8R-1.4	SO	1	X											04
5	4/14/16	"		X	8R-2.1	SO	1	X										C-8.3 = 8R-2.1, 8R-2.3, 8R-2.4, 8R-2.6, 8R-2.8	05
6	4/14/16	"		X	8R-2.3	SO	1	X											06
7	4/14/16	"		X	8R-2.4	SO	1	X											07
8	4/14/16	"		X	8R-2.6	SO	1	X											08
9	4/15/16	"		X	8R-2.8	SO	1	X											09
10																			

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	X
Rush 2 day		Category B	X		
Rush 1 day					
Other please indicate:		Other please indicate:		Other EDD please indicate:	

Sampled By	4/14/16 16:00 Date/Time	Total Cost:
Relinquished By	4/19/16 16:00 Date/Time	
Received By	4/19/16 16:00 Date/Time	P.I.F.
Received @ Lab By	4/19/16 16:15 Date/Time	

3°C iced 4/19/16 16:12. Custody Seal N/A, samples delivered by client. 4/19/16

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT: Ravi		CLIENT:		161505
ADDRESS:		ADDRESS:		Quotation #:
CITY:	STATE: ZIP:	CITY:	STATE: ZIP:	
PHONE: 585-223-3660		PHONE:		Email: pmorton@ravieng.com izizari@ravieng.com
ATTN: Lynn Zizari		ATTN:		

PROJECT REFERENCE

1440 Empire Blvd

Matrix Codes:

AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL/CP-51 VOA	TCL SVOC	Pest	Silvex	PCBs	Part 375 Metals	Cr+6	TCN			REMARKS	PARADIGM LAB SAMPLE NUMBER	
1	4/14/16	16:00	X	X (12) 4/19/16	C-8.1	SO	1		X	X	X	X	X	X	X				1	0
2	4/13/16	:1	X	X	C-8.2	SO	see notes		X	X	X	X	X	X	X				1	1
3	4/14/16	:1	X	X	C-8.3	SO			X	X	X	X	X	X	X				1	2
4	per composite method																			
5	cp 4/20/16																			
6																				
7																				
8																				
9																				
10																				

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	X
Rush 2 day		Category B	X		
Rush 1 day					
Other please indicate:		Other please indicate:		Other EDD please indicate:	

	Date/Time	
Sampled By	4/14/16 16:00	Total Cost:
Relinquished By	4/19/16 16:00	
Received By	4/19/16 16:00	P.I.F.
Received @ Lab By	4/19/16 16:15	

PARADIGM

Chain of Custody Supplement

Client: Ravi Engineering **Completed by:** Glenn Pezzulo

Lab Project ID: 161505 **Date:** 4/20/16

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	[X]	[X] 5035	[ ]
Comments	Portion of samples 01, 02, 03, 04 transferred to 8oz glass jar and mixed well for composite (C-8.2).		
Transferred to method-compliant container	[X] composites sub-outs	[ ]	[X]
Headspace (<1 mL)	[ ]	[ ]	[ ]
Comments	Portion of Samples 05, 06, 07, 08, 09 transferred to 8oz glass jar and mixed well for composite (C-8.3).		
Preservation	[ ]	[ ]	[ ]
Comments	Portion of composite samples 10, 11, 12 transferred to 4oz glass jars for Silvex, Hex Chrome sub-outs.		
Chlorine Absent (<0.10 ppm per test strip)	[ ]	[ ]	[X]
Comments			
Holding Time	[X]	[ ]	[ ]
Comments			
Temperature	[X]	[ ]	[X] metals
Comments	3°C iced 4/19/16 16:12		
Sufficient Sample Quantity	[X]	[ ]	[ ]
Comments			

ANALYTICAL REPORT

Lab Number:	L1611690
Client:	Paradigm Environmental Services 179 Lake Avenue Rochester, NY 14608
ATTN:	Rebecca Ross
Phone:	(585) 647-2530
Project Name:	161505
Project Number:	161505
Report Date:	04/27/16

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

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

Project Name: 161505
Project Number: 161505

Lab Number: L1611690
Report Date: 04/27/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1611690-01	161505-10 C-8.1	SOIL	Not Specified	04/14/16 00:00	04/20/16
L1611690-02	161505-11 C-8.2	SOIL	Not Specified	04/14/16 00:00	04/20/16
L1611690-03	161505-12 C-8.3	SOIL	Not Specified	04/14/16 00:00	04/20/16

Project Name: 161505
Project Number: 161505

Lab Number: L1611690
Report Date: 04/27/16

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	161505	**Lab Number:**	L1611690
Project Number:	161505	**Report Date:**	04/27/16

Case Narrative (continued)

Report Submission

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

Solids, Total

L1611690-02 and -03: A Laboratory Duplicate was prepared with the sample batch, however, the native sample was not available for reporting; therefore, the laboratory duplicate results could not be reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 04/27/16

ORGANICS

PESTICIDES

Project Name: 161505 **Lab Number:** L1611690

Project Number: 161505 **Report Date:** 04/27/16

SAMPLE RESULTS

Lab ID:	L1611690-01	Date Collected:	04/14/16 00:00
Client ID:	161505-10 C-8.1	Date Received:	04/20/16
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 8151A
Analytical Method:	1,8151A	Extraction Date:	04/23/16 05:04
Analytical Date:	04/24/16 23:28		
Analyst:	EC		
Percent Solids:	88%		
Methylation Date:	04/24/16 14:52		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	189	5.03	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	104		30-150	A
DCAA	72		30-150	B

Project Name: 161505 **Lab Number:** L1611690

Project Number: 161505 **Report Date:** 04/27/16

SAMPLE RESULTS

Lab ID:	L1611690-02	Date Collected:	04/14/16 00:00
Client ID:	161505-11 C-8.2	Date Received:	04/20/16
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 8151A
Analytical Method:	1,8151A	Extraction Date:	04/23/16 05:04
Analytical Date:	04/24/16 23:48		
Analyst:	EC		
Percent Solids:	91%		
Methylation Date:	04/24/16 14:52		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	182	4.84	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	121		30-150	A
DCAA	75		30-150	B

Project Name: 161505 **Lab Number:** L1611690

Project Number: 161505 **Report Date:** 04/27/16

SAMPLE RESULTS

Lab ID:	L1611690-03	Date Collected:	04/14/16 00:00
Client ID:	161505-12 C-8.3	Date Received:	04/20/16
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 8151A
Analytical Method:	1,8151A	Extraction Date:	04/23/16 05:04
Analytical Date:	04/25/16 00:07		
Analyst:	EC		
Percent Solids:	88%		
Methylation Date:	04/24/16 14:52		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	190	5.04	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	115		30-150	A
DCAA	**193**	Q	30-150	B

Project Name: 161505
Project Number: 161505

Lab Number: L1611690
Report Date: 04/27/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 04/24/16 21:11
Analyst: EC

Extraction Method: EPA 8151A
Extraction Date: 04/23/16 04:53

Methylation Date: 04/24/16 14:52

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-03 Batch: WG886554-1						
2,4,5-TP (Silvex)	ND		ug/kg	163	4.33	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	140		30-150	A
DCAA	96		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 161505

Project Number: 161505

Lab Number: L1611690

Report Date: 04/27/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG886554-2 WG886554-3									
Dicamba	42		87		30-150	**70**	Q	30	A
2,4-D	44		90		30-150	**69**	Q	30	A
2,4,5-T	44		91		30-150	**70**	Q	30	A
2,4,5-TP (Silvex)	44		89		30-150	**68**	Q	30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	46		106		30-150	A
DCAA	40		79		30-150	B

INORGANICS
&
MISCELLANEOUS

Project Name: 161505
Project Number: 161505

Lab Number: L1611690
Report Date: 04/27/16

SAMPLE RESULTS

Lab ID: L1611690-01
Client ID: 161505-10 C-8.1
Sample Location: Not Specified
Matrix: Soil

Date Collected: 04/14/16 00:00
Date Received: 04/20/16
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	87.9		%	0.100	NA	1	-	04/22/16 23:43	121,2540G	VB
Chromium, Hexavalent	ND		mg/kg	0.91	0.18	1	04/26/16 17:50	04/26/16 22:56	1,7196A	RP

Project Name: 161505
Project Number: 161505

Lab Number: L1611690
Report Date: 04/27/16

SAMPLE RESULTS

Lab ID: L1611690-02
Client ID: 161505-11 C-8.2
Sample Location: Not Specified
Matrix: Soil

Date Collected: 04/14/16 00:00
Date Received: 04/20/16
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	91.1		%	0.100	NA	1	-	04/21/16 12:56	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	0.88	0.18	1	04/26/16 17:50	04/26/16 22:56	1,7196A	RP

Project Name: 161505
Project Number: 161505

Lab Number: L1611690
Report Date: 04/27/16

SAMPLE RESULTS

Lab ID: L1611690-03
Client ID: 161505-12 C-8.3
Sample Location: Not Specified
Matrix: Soil

Date Collected: 04/14/16 00:00
Date Received: 04/20/16
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	87.6		%	0.100	NA	1	-	04/21/16 12:56	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	0.91	0.18	1	04/26/16 17:50	04/26/16 22:56	1,7196A	RP

Project Name: 161505 **Lab Number:** L1611690

Project Number: 161505 **Report Date:** 04/27/16

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG887494-1										
Chromium, Hexavalent	ND		mg/kg	0.80	0.16	1	04/26/16 17:50	04/26/16 22:57	1,7196A	RP

Lab Control Sample Analysis

Batch Quality Control

Project Name: 161505

Project Number: 161505

Lab Number: L1611690

Report Date: 04/27/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG887494-2								
Chromium, Hexavalent	86		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 161505
Project Number: 161505

Lab Number: L1611690
Report Date: 04/27/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG887494-4 QC Sample: L1611690-02 Client ID: 161505-11 C-8.2												
Chromium, Hexavalent	ND	804	940	120		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 161505
Project Number: 161505

Lab Number: L1611690
Report Date: 04/27/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG886508-1 QC Sample: L1611935-01 Client ID: DUP Sample						
Solids, Total	62.0	61.5	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG887494-6 QC Sample: L1611690-02 Client ID: 161505-11 C-8.2						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 161505
Project Number: 161505

Lab Number: L1611690
Report Date: 04/27/16

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1611690-01A	Glass 120ml/4oz unpreserved	A	N/A	4.6	Y	Absent	HERB-APA(14),TS(7),HEXCR-7196(30)
L1611690-02A	Glass 120ml/4oz unpreserved	A	N/A	4.6	Y	Absent	HERB-APA(14),TS(7),HEXCR-7196(30)
L1611690-03A	Glass 120ml/4oz unpreserved	A	N/A	4.6	Y	Absent	HERB-APA(14),TS(7),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name:	161505	**Lab Number:**	L1611690
Project Number:	161505	**Report Date:**	04/27/16

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

Report Format: DU Report with 'J' Qualifiers

Project Name:	161505	**Lab Number:**	L1611690
Project Number:	161505	**Report Date:**	04/27/16

Data Qualifiers

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

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	161505	**Lab Number:**	L1611690
Project Number:	161505	**Report Date:**	04/27/16

REFERENCES

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

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

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

Westborough Facility
EPA 524.2: 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, m/p-xylene, o-xylene
EPA 624: 2-Butanone (MEK), 1,4-Dioxane, tert-Amylmethyl Ether, tert-Butyl Alcohol, m/p-xylene, o-xylene
EPA 625: Aniline, Benzoic Acid, Benzyl Alcohol, 4-Chloroaniline, 3-Methylphenol, 4-Methylphenol.
EPA 1010A: NPW: Ignitability
EPA 6010C: NPW: Strontium; SCM: Strontium
EPA 8151A: NPW: 2,4-DB, Dicamba, Dichloroprop, MCPA, MCPP; SCM: 2,4-DB, Dichloroprop, MCPA, MCPP
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene, Isopropanol; SCM: Iodomethane (methyl iodide), Methyl methacrylate (soil); 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 9010: NPW: Amenable Cyanide Distillation, Total Cyanide Distillation
EPA 9038: NPW: Sulfate
EPA 9050A: NPW: Specific Conductance
EPA 9056: NPW: Chloride, Nitrate, Sulfate
EPA 9065: NPW: Phenols
EPA 9251: NPW: Chloride
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
EPA 8270D: NPW: Biphenyl; SCM: Biphenyl, Caprolactam
EPA 8270D-SIM Isotope Dilution: SCM: 1,4-Dioxane
SM 2540D: TSS
SM2540G: SCM: Percent Solids
EPA 1631E: SCM: Mercury
EPA 7474: SCM: Mercury
EPA 8081B: NPW and SCM: Mirex, Hexachlorobenzene.
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA 8270-SIM: NPW and SCM: Alkylated PAHs.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene.
Biological Tissue Matrix: ***8270D-SIM; 3050B; 3051A; 7471B; 8081B; 8082A; 6020A:*** Lead***; 8270D:*** bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Diethyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Fluoranthene, Pentachlorophenol.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,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, SM4500Cl-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.

Serial_No:04271615:40

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

PARADIGM ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY

1 of 1

L1611690

11148

REPORT TO:		INVOICE TO:			
COMPANY:	Paradigm Environmental	COMPANY:	Same	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS:	179 Lake Avenue	ADDRESS:			
CITY: Rochester STATE: NY ZIP: 14608		CITY: STATE: ZIP:		TURNAROUND TIME: (WORKING DAYS)	
PHONE: FAX:		PHONE: FAX:		STD / OTHER	
PROJECT NAME/SITE NAME:		ATTN: Kate Hansen	ATTN: Meridith Dillman	☐1 ☐2 ☐3 ☐5	
		COMMENTS: Please email results to khansen@paradigmenv.com and reporting@paradigmenv.com		Date Due: 4/27/16 for data	

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER OF CONTAINERS	Hex Chrome	Silver								REMARKS	PARADIGM LAB SAMPLE NUMBER
																	Report J Flags. SDG closed. ASP Cat B Package due 5/11/16 SW-846 HT's. Report as dry wt.	
1	4/14/16		X		161505-10	Soil	1	X	X								C-8.1	
2	4/13/16		↓		-11	↓	↓	X	X								C-8.2	
3	4/15/16		↓		-12	↓	↓	X	X								C-8.3	
4																		
5																		
6																		
7																		
8																		
9																		
10																		

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type:	Y ☐	N ☐
Comments:		
Preservation:	Y ☐	N ☐
Comments:		
Holding Time:	Y ☐	N ☐
Comments:		
Temperature:	Y ☐	N ☐
Comments:		

Client

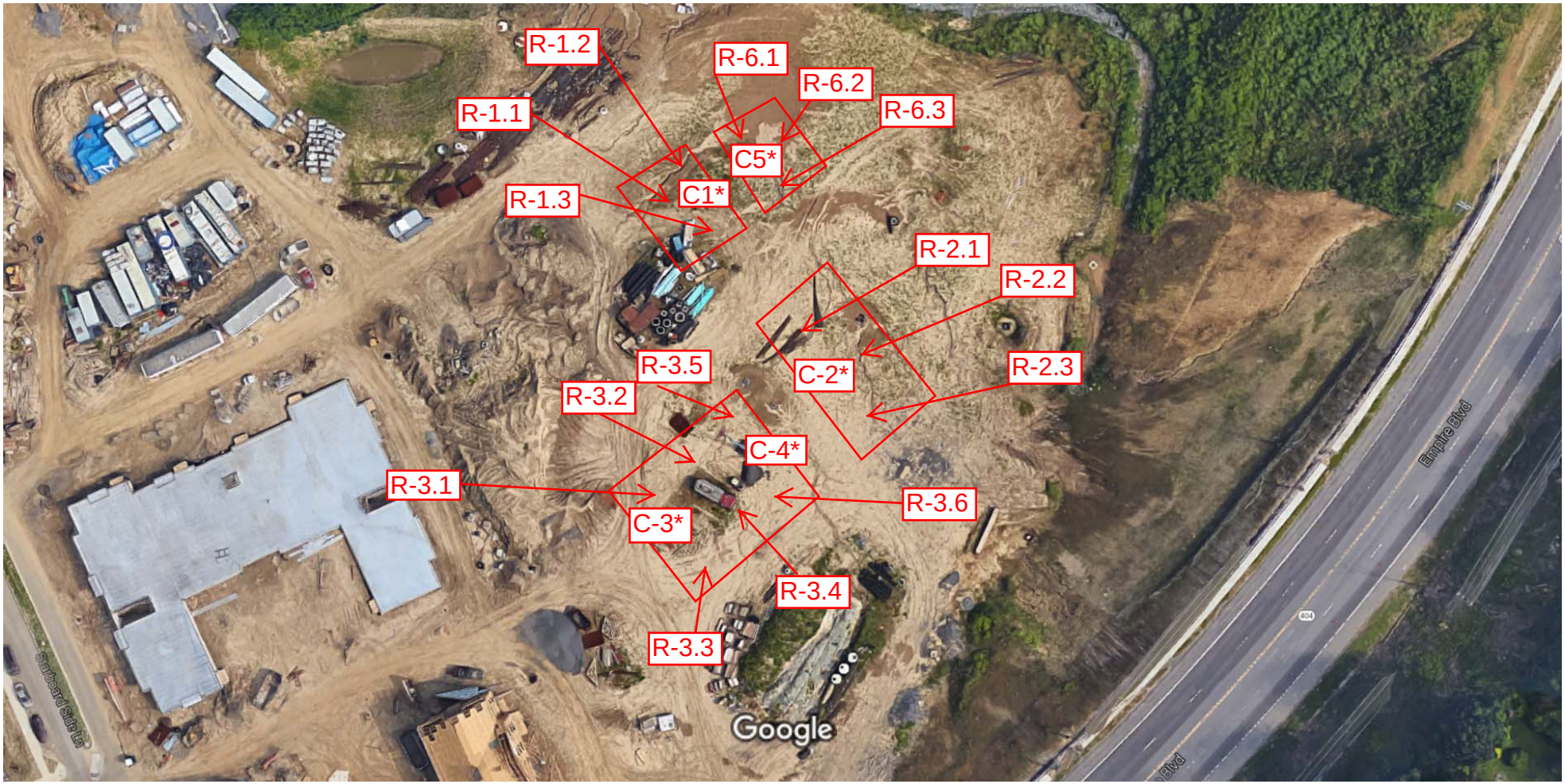
	Date/Time	
Sampled By	4/20/16	16:00
Relinquished By	4/20/16	18:20
Received By	4/21/16	0110
Received By		
Received @ Lab By		

Total Cost:

P.I.F. ☐

Google Maps 1440 Empire Blvd

Sample Location Map - Building 7 excavation
Samples Collected 2/12/16



Imagery ©2016 Google, Map data ©2016 Google 50 ft

Asterisks (*) indicate a composite sample:
C-1 consists of samples R-1.1,1.2,1.3
C-2 consists of samples R-2.1, 2.2, 2.3
C-3 consists of samples R-3.1, 3.2, 3.3
C-4 consists of samples R-3.4, 3.5, 3.6
C-5 consists of samples R-6.1, 6.2,6.3

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-1.1		
Lab Sample ID:	160673-01	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 3.84	ug/Kg		2/18/2016 18:41
1,1,2,2-Tetrachloroethane	< 3.84	ug/Kg		2/18/2016 18:41
1,1,2-Trichloroethane	< 3.84	ug/Kg		2/18/2016 18:41
1,1-Dichloroethane	< 3.84	ug/Kg		2/18/2016 18:41
1,1-Dichloroethene	< 3.84	ug/Kg		2/18/2016 18:41
1,2,3-Trichlorobenzene	< 9.59	ug/Kg		2/18/2016 18:41
1,2,4-Trichlorobenzene	< 9.59	ug/Kg		2/18/2016 18:41
1,2,4-Trimethylbenzene	< 3.84	ug/Kg		2/18/2016 18:41
1,2-Dibromo-3-Chloropropane	< 19.2	ug/Kg		2/18/2016 18:41
1,2-Dibromoethane	< 3.84	ug/Kg		2/18/2016 18:41
1,2-Dichlorobenzene	< 3.84	ug/Kg		2/18/2016 18:41
1,2-Dichloroethane	< 3.84	ug/Kg		2/18/2016 18:41
1,2-Dichloropropane	< 3.84	ug/Kg		2/18/2016 18:41
1,3,5-Trimethylbenzene	< 3.84	ug/Kg		2/18/2016 18:41
1,3-Dichlorobenzene	< 3.84	ug/Kg		2/18/2016 18:41
1,4-Dichlorobenzene	< 3.84	ug/Kg		2/18/2016 18:41
1,4-dioxane	< 38.4	ug/Kg		2/18/2016 18:41
2-Butanone	< 19.2	ug/Kg		2/18/2016 18:41
2-Hexanone	< 9.59	ug/Kg		2/18/2016 18:41
4-Methyl-2-pentanone	< 9.59	ug/Kg		2/18/2016 18:41
Acetone	< 19.2	ug/Kg		2/18/2016 18:41
Benzene	< 3.84	ug/Kg		2/18/2016 18:41
Bromochloromethane	< 9.59	ug/Kg		2/18/2016 18:41
Bromodichloromethane	< 3.84	ug/Kg		2/18/2016 18:41
Bromoform	< 9.59	ug/Kg		2/18/2016 18:41
Bromomethane	< 3.84	ug/Kg		2/18/2016 18:41
Carbon disulfide	< 3.84	ug/Kg		2/18/2016 18:41

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-1.1		
Lab Sample ID:	160673-01	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Carbon Tetrachloride	< 3.84	ug/Kg		2/18/2016	18:41
Chlorobenzene	< 3.84	ug/Kg		2/18/2016	18:41
Chloroethane	< 3.84	ug/Kg		2/18/2016	18:41
Chloroform	< 3.84	ug/Kg		2/18/2016	18:41
Chloromethane	< 3.84	ug/Kg		2/18/2016	18:41
cis-1,2-Dichloroethene	< 3.84	ug/Kg		2/18/2016	18:41
cis-1,3-Dichloropropene	< 3.84	ug/Kg		2/18/2016	18:41
Cyclohexane	< 19.2	ug/Kg		2/18/2016	18:41
Dibromochloromethane	< 3.84	ug/Kg		2/18/2016	18:41
Dichlorodifluoromethane	< 3.84	ug/Kg		2/18/2016	18:41
Ethylbenzene	< 3.84	ug/Kg		2/18/2016	18:41
Freon 113	< 3.84	ug/Kg		2/18/2016	18:41
Isopropylbenzene	< 3.84	ug/Kg		2/18/2016	18:41
m,p-Xylene	< 3.84	ug/Kg		2/18/2016	18:41
Methyl acetate	< 3.84	ug/Kg		2/18/2016	18:41
Methyl tert-butyl Ether	< 3.84	ug/Kg		2/18/2016	18:41
Methylcyclohexane	< 3.84	ug/Kg		2/18/2016	18:41
Methylene chloride	**5.35**	ug/Kg	J	2/18/2016	18:41
Naphthalene	< 9.59	ug/Kg		2/18/2016	18:41
n-Butylbenzene	< 3.84	ug/Kg		2/18/2016	18:41
n-Propylbenzene	< 3.84	ug/Kg		2/18/2016	18:41
o-Xylene	< 3.84	ug/Kg		2/18/2016	18:41
p-Isopropyltoluene	< 3.84	ug/Kg		2/18/2016	18:41
sec-Butylbenzene	< 3.84	ug/Kg		2/18/2016	18:41
Styrene	< 9.59	ug/Kg		2/18/2016	18:41
tert-Butylbenzene	< 3.84	ug/Kg		2/18/2016	18:41
Tetrachloroethene	**16.4**	ug/Kg		2/18/2016	18:41
Toluene	< 3.84	ug/Kg		2/18/2016	18:41
trans-1,2-Dichloroethene	< 3.84	ug/Kg		2/18/2016	18:41
trans-1,3-Dichloropropene	< 3.84	ug/Kg		2/18/2016	18:41

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-1.1		
Lab Sample ID:	160673-01	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Trichloroethene	**4.97**	ug/Kg	2/18/2016	18:41
Trichlorofluoromethane	< 3.84	ug/Kg	2/18/2016	18:41
Vinyl chloride	< 3.84	ug/Kg	2/18/2016	18:41

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**105**	83 - 126		2/18/2016	18:41
4-Bromofluorobenzene	**83.6**	80.8 - 115		2/18/2016	18:41
Pentafluorobenzene	**96.1**	90.6 - 111		2/18/2016	18:41
Toluene-D8	**92.2**	89.2 - 109		2/18/2016	18:41

Method Reference(s): EPA 8260C
EPA 5035

Data File: x29705.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-1.2		
Lab Sample ID:	160673-02	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.50	ug/Kg		2/18/2016 19:04
1,1,2,2-Tetrachloroethane	< 4.50	ug/Kg		2/18/2016 19:04
1,1,2-Trichloroethane	< 4.50	ug/Kg		2/18/2016 19:04
1,1-Dichloroethane	< 4.50	ug/Kg		2/18/2016 19:04
1,1-Dichloroethene	< 4.50	ug/Kg		2/18/2016 19:04
1,2,3-Trichlorobenzene	< 11.2	ug/Kg		2/18/2016 19:04
1,2,4-Trichlorobenzene	< 11.2	ug/Kg		2/18/2016 19:04
1,2,4-Trimethylbenzene	< 4.50	ug/Kg		2/18/2016 19:04
1,2-Dibromo-3-Chloropropane	< 22.5	ug/Kg		2/18/2016 19:04
1,2-Dibromoethane	< 4.50	ug/Kg		2/18/2016 19:04
1,2-Dichlorobenzene	< 4.50	ug/Kg		2/18/2016 19:04
1,2-Dichloroethane	< 4.50	ug/Kg		2/18/2016 19:04
1,2-Dichloropropane	< 4.50	ug/Kg		2/18/2016 19:04
1,3,5-Trimethylbenzene	< 4.50	ug/Kg		2/18/2016 19:04
1,3-Dichlorobenzene	< 4.50	ug/Kg		2/18/2016 19:04
1,4-Dichlorobenzene	< 4.50	ug/Kg		2/18/2016 19:04
1,4-dioxane	< 45.0	ug/Kg		2/18/2016 19:04
2-Butanone	< 22.5	ug/Kg		2/18/2016 19:04
2-Hexanone	< 11.2	ug/Kg		2/18/2016 19:04
4-Methyl-2-pentanone	< 11.2	ug/Kg		2/18/2016 19:04
Acetone	< 22.5	ug/Kg		2/18/2016 19:04
Benzene	< 4.50	ug/Kg		2/18/2016 19:04
Bromochloromethane	< 11.2	ug/Kg		2/18/2016 19:04
Bromodichloromethane	< 4.50	ug/Kg		2/18/2016 19:04
Bromoform	< 11.2	ug/Kg		2/18/2016 19:04
Bromomethane	< 4.50	ug/Kg		2/18/2016 19:04
Carbon disulfide	< 4.50	ug/Kg		2/18/2016 19:04

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-1.2		
Lab Sample ID:	160673-02	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Carbon Tetrachloride	< 4.50	ug/Kg	2/18/2016	19:04
Chlorobenzene	< 4.50	ug/Kg	2/18/2016	19:04
Chloroethane	< 4.50	ug/Kg	2/18/2016	19:04
Chloroform	< 4.50	ug/Kg	2/18/2016	19:04
Chloromethane	< 4.50	ug/Kg	2/18/2016	19:04
cis-1,2-Dichloroethene	< 4.50	ug/Kg	2/18/2016	19:04
cis-1,3-Dichloropropene	< 4.50	ug/Kg	2/18/2016	19:04
Cyclohexane	< 22.5	ug/Kg	2/18/2016	19:04
Dibromochloromethane	< 4.50	ug/Kg	2/18/2016	19:04
Dichlorodifluoromethane	< 4.50	ug/Kg	2/18/2016	19:04
Ethylbenzene	< 4.50	ug/Kg	2/18/2016	19:04
Freon 113	< 4.50	ug/Kg	2/18/2016	19:04
Isopropylbenzene	< 4.50	ug/Kg	2/18/2016	19:04
m,p-Xylene	< 4.50	ug/Kg	2/18/2016	19:04
Methyl acetate	< 4.50	ug/Kg	2/18/2016	19:04
Methyl tert-butyl Ether	< 4.50	ug/Kg	2/18/2016	19:04
Methylcyclohexane	< 4.50	ug/Kg	2/18/2016	19:04
Methylene chloride	< 11.2	ug/Kg	2/18/2016	19:04
Naphthalene	< 11.2	ug/Kg	2/18/2016	19:04
n-Butylbenzene	< 4.50	ug/Kg	2/18/2016	19:04
n-Propylbenzene	< 4.50	ug/Kg	2/18/2016	19:04
o-Xylene	< 4.50	ug/Kg	2/18/2016	19:04
p-Isopropyltoluene	< 4.50	ug/Kg	2/18/2016	19:04
sec-Butylbenzene	< 4.50	ug/Kg	2/18/2016	19:04
Styrene	< 11.2	ug/Kg	2/18/2016	19:04
tert-Butylbenzene	< 4.50	ug/Kg	2/18/2016	19:04
Tetrachloroethene	**11.3**	ug/Kg	2/18/2016	19:04
Toluene	< 4.50	ug/Kg	2/18/2016	19:04
trans-1,2-Dichloroethene	< 4.50	ug/Kg	2/18/2016	19:04
trans-1,3-Dichloropropene	< 4.50	ug/Kg	2/18/2016	19:04

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-1.2		
Lab Sample ID:	160673-02	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Trichloroethene	**4.11**	ug/Kg	J	2/18/2016	19:04
Trichlorofluoromethane	< 4.50	ug/Kg		2/18/2016	19:04
Vinyl chloride	< 4.50	ug/Kg		2/18/2016	19:04

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**106**	83 - 126		2/18/2016	19:04
4-Bromofluorobenzene	**85.3**	80.8 - 115		2/18/2016	19:04
Pentafluorobenzene	**94.2**	90.6 - 111		2/18/2016	19:04
Toluene-D8	**91.8**	89.2 - 109		2/18/2016	19:04

Method Reference(s): EPA 8260C
EPA 5035

Data File: x29706.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-1.3		
Lab Sample ID:	160673-03	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.60	ug/Kg		2/18/2016 19:28
1,1,2,2-Tetrachloroethane	< 4.60	ug/Kg		2/18/2016 19:28
1,1,2-Trichloroethane	< 4.60	ug/Kg		2/18/2016 19:28
1,1-Dichloroethane	< 4.60	ug/Kg		2/18/2016 19:28
1,1-Dichloroethene	< 4.60	ug/Kg		2/18/2016 19:28
1,2,3-Trichlorobenzene	< 11.5	ug/Kg		2/18/2016 19:28
1,2,4-Trichlorobenzene	< 11.5	ug/Kg		2/18/2016 19:28
1,2,4-Trimethylbenzene	< 4.60	ug/Kg		2/18/2016 19:28
1,2-Dibromo-3-Chloropropane	< 23.0	ug/Kg		2/18/2016 19:28
1,2-Dibromoethane	< 4.60	ug/Kg		2/18/2016 19:28
1,2-Dichlorobenzene	< 4.60	ug/Kg		2/18/2016 19:28
1,2-Dichloroethane	< 4.60	ug/Kg		2/18/2016 19:28
1,2-Dichloropropane	< 4.60	ug/Kg		2/18/2016 19:28
1,3,5-Trimethylbenzene	< 4.60	ug/Kg		2/18/2016 19:28
1,3-Dichlorobenzene	< 4.60	ug/Kg		2/18/2016 19:28
1,4-Dichlorobenzene	< 4.60	ug/Kg		2/18/2016 19:28
1,4-dioxane	< 46.0	ug/Kg		2/18/2016 19:28
2-Butanone	< 23.0	ug/Kg		2/18/2016 19:28
2-Hexanone	< 11.5	ug/Kg		2/18/2016 19:28
4-Methyl-2-pentanone	< 11.5	ug/Kg		2/18/2016 19:28
Acetone	< 23.0	ug/Kg		2/18/2016 19:28
Benzene	< 4.60	ug/Kg		2/18/2016 19:28
Bromochloromethane	< 11.5	ug/Kg		2/18/2016 19:28
Bromodichloromethane	< 4.60	ug/Kg		2/18/2016 19:28
Bromoform	< 11.5	ug/Kg		2/18/2016 19:28
Bromomethane	< 4.60	ug/Kg		2/18/2016 19:28
Carbon disulfide	< 4.60	ug/Kg		2/18/2016 19:28

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-1.3		
Lab Sample ID:	160673-03	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Carbon Tetrachloride	< 4.60	ug/Kg	2/18/2016	19:28
Chlorobenzene	< 4.60	ug/Kg	2/18/2016	19:28
Chloroethane	< 4.60	ug/Kg	2/18/2016	19:28
Chloroform	< 4.60	ug/Kg	2/18/2016	19:28
Chloromethane	< 4.60	ug/Kg	2/18/2016	19:28
cis-1,2-Dichloroethene	< 4.60	ug/Kg	2/18/2016	19:28
cis-1,3-Dichloropropene	< 4.60	ug/Kg	2/18/2016	19:28
Cyclohexane	< 23.0	ug/Kg	2/18/2016	19:28
Dibromochloromethane	< 4.60	ug/Kg	2/18/2016	19:28
Dichlorodifluoromethane	< 4.60	ug/Kg	2/18/2016	19:28
Ethylbenzene	< 4.60	ug/Kg	2/18/2016	19:28
Freon 113	< 4.60	ug/Kg	2/18/2016	19:28
Isopropylbenzene	< 4.60	ug/Kg	2/18/2016	19:28
m,p-Xylene	< 4.60	ug/Kg	2/18/2016	19:28
Methyl acetate	< 4.60	ug/Kg	2/18/2016	19:28
Methyl tert-butyl Ether	< 4.60	ug/Kg	2/18/2016	19:28
Methylcyclohexane	< 4.60	ug/Kg	2/18/2016	19:28
Methylene chloride	< 11.5	ug/Kg	2/18/2016	19:28
Naphthalene	< 11.5	ug/Kg	2/18/2016	19:28
n-Butylbenzene	< 4.60	ug/Kg	2/18/2016	19:28
n-Propylbenzene	< 4.60	ug/Kg	2/18/2016	19:28
o-Xylene	< 4.60	ug/Kg	2/18/2016	19:28
p-Isopropyltoluene	< 4.60	ug/Kg	2/18/2016	19:28
sec-Butylbenzene	< 4.60	ug/Kg	2/18/2016	19:28
Styrene	< 11.5	ug/Kg	2/18/2016	19:28
tert-Butylbenzene	< 4.60	ug/Kg	2/18/2016	19:28
Tetrachloroethene	**8.08**	ug/Kg	2/18/2016	19:28
Toluene	< 4.60	ug/Kg	2/18/2016	19:28
trans-1,2-Dichloroethene	< 4.60	ug/Kg	2/18/2016	19:28
trans-1,3-Dichloropropene	< 4.60	ug/Kg	2/18/2016	19:28

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-1.3		
Lab Sample ID:	160673-03	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Trichloroethene	< 4.60	ug/Kg			2/18/2016 19:28
Trichlorofluoromethane	< 4.60	ug/Kg			2/18/2016 19:28
Vinyl chloride	< 4.60	ug/Kg			2/18/2016 19:28

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**107**	83 - 126		2/18/2016 19:28
4-Bromofluorobenzene	**89.2**	80.8 - 115		2/18/2016 19:28
Pentafluorobenzene	**96.5**	90.6 - 111		2/18/2016 19:28
Toluene-D8	**93.2**	89.2 - 109		2/18/2016 19:28

Method Reference(s): EPA 8260C
EPA 5035

Data File: x29707.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-2.1		
Lab Sample ID:	160673-04	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 3.68	ug/Kg		2/18/2016 19:52
1,1,2,2-Tetrachloroethane	< 3.68	ug/Kg		2/18/2016 19:52
1,1,2-Trichloroethane	< 3.68	ug/Kg		2/18/2016 19:52
1,1-Dichloroethane	< 3.68	ug/Kg		2/18/2016 19:52
1,1-Dichloroethene	< 3.68	ug/Kg		2/18/2016 19:52
1,2,3-Trichlorobenzene	< 9.20	ug/Kg		2/18/2016 19:52
1,2,4-Trichlorobenzene	< 9.20	ug/Kg		2/18/2016 19:52
1,2,4-Trimethylbenzene	< 3.68	ug/Kg		2/18/2016 19:52
1,2-Dibromo-3-Chloropropane	< 18.4	ug/Kg		2/18/2016 19:52
1,2-Dibromoethane	< 3.68	ug/Kg		2/18/2016 19:52
1,2-Dichlorobenzene	< 3.68	ug/Kg		2/18/2016 19:52
1,2-Dichloroethane	< 3.68	ug/Kg		2/18/2016 19:52
1,2-Dichloropropane	< 3.68	ug/Kg		2/18/2016 19:52
1,3,5-Trimethylbenzene	< 3.68	ug/Kg		2/18/2016 19:52
1,3-Dichlorobenzene	< 3.68	ug/Kg		2/18/2016 19:52
1,4-Dichlorobenzene	< 3.68	ug/Kg		2/18/2016 19:52
1,4-dioxane	< 36.8	ug/Kg		2/18/2016 19:52
2-Butanone	< 18.4	ug/Kg		2/18/2016 19:52
2-Hexanone	< 9.20	ug/Kg		2/18/2016 19:52
4-Methyl-2-pentanone	< 9.20	ug/Kg		2/18/2016 19:52
Acetone	< 18.4	ug/Kg		2/18/2016 19:52
Benzene	< 3.68	ug/Kg		2/18/2016 19:52
Bromochloromethane	< 9.20	ug/Kg		2/18/2016 19:52
Bromodichloromethane	< 3.68	ug/Kg		2/18/2016 19:52
Bromoform	< 9.20	ug/Kg		2/18/2016 19:52
Bromomethane	< 3.68	ug/Kg		2/18/2016 19:52
Carbon disulfide	< 3.68	ug/Kg		2/18/2016 19:52

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-2.1		
Lab Sample ID:	160673-04	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Carbon Tetrachloride	< 3.68	ug/Kg	2/18/2016	19:52
Chlorobenzene	< 3.68	ug/Kg	2/18/2016	19:52
Chloroethane	< 3.68	ug/Kg	2/18/2016	19:52
Chloroform	< 3.68	ug/Kg	2/18/2016	19:52
Chloromethane	< 3.68	ug/Kg	2/18/2016	19:52
cis-1,2-Dichloroethene	< 3.68	ug/Kg	2/18/2016	19:52
cis-1,3-Dichloropropene	< 3.68	ug/Kg	2/18/2016	19:52
Cyclohexane	< 18.4	ug/Kg	2/18/2016	19:52
Dibromochloromethane	< 3.68	ug/Kg	2/18/2016	19:52
Dichlorodifluoromethane	< 3.68	ug/Kg	2/18/2016	19:52
Ethylbenzene	< 3.68	ug/Kg	2/18/2016	19:52
Freon 113	< 3.68	ug/Kg	2/18/2016	19:52
Isopropylbenzene	< 3.68	ug/Kg	2/18/2016	19:52
m,p-Xylene	< 3.68	ug/Kg	2/18/2016	19:52
Methyl acetate	< 3.68	ug/Kg	2/18/2016	19:52
Methyl tert-butyl Ether	< 3.68	ug/Kg	2/18/2016	19:52
Methylcyclohexane	< 3.68	ug/Kg	2/18/2016	19:52
Methylene chloride	< 9.20	ug/Kg	2/18/2016	19:52
Naphthalene	< 9.20	ug/Kg	2/18/2016	19:52
n-Butylbenzene	< 3.68	ug/Kg	2/18/2016	19:52
n-Propylbenzene	< 3.68	ug/Kg	2/18/2016	19:52
o-Xylene	< 3.68	ug/Kg	2/18/2016	19:52
p-Isopropyltoluene	< 3.68	ug/Kg	2/18/2016	19:52
sec-Butylbenzene	< 3.68	ug/Kg	2/18/2016	19:52
Styrene	< 9.20	ug/Kg	2/18/2016	19:52
tert-Butylbenzene	< 3.68	ug/Kg	2/18/2016	19:52
Tetrachloroethene	**12.0**	ug/Kg	2/18/2016	19:52
Toluene	< 3.68	ug/Kg	2/18/2016	19:52
trans-1,2-Dichloroethene	< 3.68	ug/Kg	2/18/2016	19:52
trans-1,3-Dichloropropene	< 3.68	ug/Kg	2/18/2016	19:52

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-2.1		
Lab Sample ID:	160673-04	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Trichloroethene	< 3.68	ug/Kg			2/18/2016 19:52
Trichlorofluoromethane	< 3.68	ug/Kg			2/18/2016 19:52
Vinyl chloride	< 3.68	ug/Kg			2/18/2016 19:52

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**109**	83 - 126		2/18/2016 19:52
4-Bromofluorobenzene	**90.0**	80.8 - 115		2/18/2016 19:52
Pentafluorobenzene	**94.7**	90.6 - 111		2/18/2016 19:52
Toluene-D8	**92.1**	89.2 - 109		2/18/2016 19:52

Method Reference(s): EPA 8260C
EPA 5035

Data File: x29708.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-2.2		
Lab Sample ID:	160673-05	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.78	ug/Kg		2/18/2016 20:16
1,1,2,2-Tetrachloroethane	< 4.78	ug/Kg		2/18/2016 20:16
1,1,2-Trichloroethane	< 4.78	ug/Kg		2/18/2016 20:16
1,1-Dichloroethane	< 4.78	ug/Kg		2/18/2016 20:16
1,1-Dichloroethene	< 4.78	ug/Kg		2/18/2016 20:16
1,2,3-Trichlorobenzene	< 12.0	ug/Kg		2/18/2016 20:16
1,2,4-Trichlorobenzene	< 12.0	ug/Kg		2/18/2016 20:16
1,2,4-Trimethylbenzene	< 4.78	ug/Kg		2/18/2016 20:16
1,2-Dibromo-3-Chloropropane	< 23.9	ug/Kg		2/18/2016 20:16
1,2-Dibromoethane	< 4.78	ug/Kg		2/18/2016 20:16
1,2-Dichlorobenzene	< 4.78	ug/Kg		2/18/2016 20:16
1,2-Dichloroethane	< 4.78	ug/Kg		2/18/2016 20:16
1,2-Dichloropropane	< 4.78	ug/Kg		2/18/2016 20:16
1,3,5-Trimethylbenzene	< 4.78	ug/Kg		2/18/2016 20:16
1,3-Dichlorobenzene	< 4.78	ug/Kg		2/18/2016 20:16
1,4-Dichlorobenzene	< 4.78	ug/Kg		2/18/2016 20:16
1,4-dioxane	< 47.8	ug/Kg		2/18/2016 20:16
2-Butanone	< 23.9	ug/Kg		2/18/2016 20:16
2-Hexanone	< 12.0	ug/Kg		2/18/2016 20:16
4-Methyl-2-pentanone	< 12.0	ug/Kg		2/18/2016 20:16
Acetone	< 23.9	ug/Kg		2/18/2016 20:16
Benzene	< 4.78	ug/Kg		2/18/2016 20:16
Bromochloromethane	< 12.0	ug/Kg		2/18/2016 20:16
Bromodichloromethane	< 4.78	ug/Kg		2/18/2016 20:16
Bromoform	< 12.0	ug/Kg		2/18/2016 20:16
Bromomethane	< 4.78	ug/Kg		2/18/2016 20:16
Carbon disulfide	< 4.78	ug/Kg		2/18/2016 20:16

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-2.2		
Lab Sample ID:	160673-05	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Carbon Tetrachloride	< 4.78	ug/Kg	2/18/2016	20:16
Chlorobenzene	< 4.78	ug/Kg	2/18/2016	20:16
Chloroethane	< 4.78	ug/Kg	2/18/2016	20:16
Chloroform	< 4.78	ug/Kg	2/18/2016	20:16
Chloromethane	< 4.78	ug/Kg	2/18/2016	20:16
cis-1,2-Dichloroethene	< 4.78	ug/Kg	2/18/2016	20:16
cis-1,3-Dichloropropene	< 4.78	ug/Kg	2/18/2016	20:16
Cyclohexane	< 23.9	ug/Kg	2/18/2016	20:16
Dibromochloromethane	< 4.78	ug/Kg	2/18/2016	20:16
Dichlorodifluoromethane	< 4.78	ug/Kg	2/18/2016	20:16
Ethylbenzene	< 4.78	ug/Kg	2/18/2016	20:16
Freon 113	< 4.78	ug/Kg	2/18/2016	20:16
Isopropylbenzene	< 4.78	ug/Kg	2/18/2016	20:16
m,p-Xylene	< 4.78	ug/Kg	2/18/2016	20:16
Methyl acetate	< 4.78	ug/Kg	2/18/2016	20:16
Methyl tert-butyl Ether	< 4.78	ug/Kg	2/18/2016	20:16
Methylcyclohexane	< 4.78	ug/Kg	2/18/2016	20:16
Methylene chloride	< 12.0	ug/Kg	2/18/2016	20:16
Naphthalene	< 12.0	ug/Kg	2/18/2016	20:16
n-Butylbenzene	< 4.78	ug/Kg	2/18/2016	20:16
n-Propylbenzene	< 4.78	ug/Kg	2/18/2016	20:16
o-Xylene	< 4.78	ug/Kg	2/18/2016	20:16
p-Isopropyltoluene	< 4.78	ug/Kg	2/18/2016	20:16
sec-Butylbenzene	< 4.78	ug/Kg	2/18/2016	20:16
Styrene	< 12.0	ug/Kg	2/18/2016	20:16
tert-Butylbenzene	< 4.78	ug/Kg	2/18/2016	20:16
Tetrachloroethene	**11.8**	ug/Kg	2/18/2016	20:16
Toluene	< 4.78	ug/Kg	2/18/2016	20:16
trans-1,2-Dichloroethene	< 4.78	ug/Kg	2/18/2016	20:16
trans-1,3-Dichloropropene	< 4.78	ug/Kg	2/18/2016	20:16

Report Prepared Thursday, February 25, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-2.2		
Lab Sample ID:	160673-05	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Trichloroethene	< 4.78	ug/Kg			2/18/2016 20:16
Trichlorofluoromethane	< 4.78	ug/Kg			2/18/2016 20:16
Vinyl chloride	< 4.78	ug/Kg			2/18/2016 20:16

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**106**	83 - 126		2/18/2016 20:16
4-Bromofluorobenzene	**87.8**	80.8 - 115		2/18/2016 20:16
Pentafluorobenzene	**94.1**	90.6 - 111		2/18/2016 20:16
Toluene-D8	**92.3**	89.2 - 109		2/18/2016 20:16

Method Reference(s): EPA 8260C
EPA 5035

Data File: x29709.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-2.3		
Lab Sample ID:	160673-06	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 5.01	ug/Kg		2/18/2016 20:40
1,1,2,2-Tetrachloroethane	< 5.01	ug/Kg		2/18/2016 20:40
1,1,2-Trichloroethane	< 5.01	ug/Kg		2/18/2016 20:40
1,1-Dichloroethane	< 5.01	ug/Kg		2/18/2016 20:40
1,1-Dichloroethene	< 5.01	ug/Kg		2/18/2016 20:40
1,2,3-Trichlorobenzene	< 12.5	ug/Kg		2/18/2016 20:40
1,2,4-Trichlorobenzene	< 12.5	ug/Kg		2/18/2016 20:40
1,2,4-Trimethylbenzene	< 5.01	ug/Kg		2/18/2016 20:40
1,2-Dibromo-3-Chloropropane	< 25.0	ug/Kg		2/18/2016 20:40
1,2-Dibromoethane	< 5.01	ug/Kg		2/18/2016 20:40
1,2-Dichlorobenzene	< 5.01	ug/Kg		2/18/2016 20:40
1,2-Dichloroethane	< 5.01	ug/Kg		2/18/2016 20:40
1,2-Dichloropropane	< 5.01	ug/Kg		2/18/2016 20:40
1,3,5-Trimethylbenzene	< 5.01	ug/Kg		2/18/2016 20:40
1,3-Dichlorobenzene	< 5.01	ug/Kg		2/18/2016 20:40
1,4-Dichlorobenzene	< 5.01	ug/Kg		2/18/2016 20:40
1,4-dioxane	< 50.1	ug/Kg		2/18/2016 20:40
2-Butanone	< 25.0	ug/Kg		2/18/2016 20:40
2-Hexanone	< 12.5	ug/Kg		2/18/2016 20:40
4-Methyl-2-pentanone	< 12.5	ug/Kg		2/18/2016 20:40
Acetone	< 25.0	ug/Kg		2/18/2016 20:40
Benzene	< 5.01	ug/Kg		2/18/2016 20:40
Bromochloromethane	< 12.5	ug/Kg		2/18/2016 20:40
Bromodichloromethane	< 5.01	ug/Kg		2/18/2016 20:40
Bromoform	< 12.5	ug/Kg		2/18/2016 20:40
Bromomethane	< 5.01	ug/Kg		2/18/2016 20:40
Carbon disulfide	< 5.01	ug/Kg		2/18/2016 20:40

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-2.3		
Lab Sample ID:	160673-06	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Carbon Tetrachloride	< 5.01	ug/Kg	2/18/2016	20:40
Chlorobenzene	< 5.01	ug/Kg	2/18/2016	20:40
Chloroethane	< 5.01	ug/Kg	2/18/2016	20:40
Chloroform	< 5.01	ug/Kg	2/18/2016	20:40
Chloromethane	< 5.01	ug/Kg	2/18/2016	20:40
cis-1,2-Dichloroethene	< 5.01	ug/Kg	2/18/2016	20:40
cis-1,3-Dichloropropene	< 5.01	ug/Kg	2/18/2016	20:40
Cyclohexane	< 25.0	ug/Kg	2/18/2016	20:40
Dibromochloromethane	< 5.01	ug/Kg	2/18/2016	20:40
Dichlorodifluoromethane	< 5.01	ug/Kg	2/18/2016	20:40
Ethylbenzene	< 5.01	ug/Kg	2/18/2016	20:40
Freon 113	< 5.01	ug/Kg	2/18/2016	20:40
Isopropylbenzene	< 5.01	ug/Kg	2/18/2016	20:40
m,p-Xylene	< 5.01	ug/Kg	2/18/2016	20:40
Methyl acetate	< 5.01	ug/Kg	2/18/2016	20:40
Methyl tert-butyl Ether	< 5.01	ug/Kg	2/18/2016	20:40
Methylcyclohexane	< 5.01	ug/Kg	2/18/2016	20:40
Methylene chloride	< 12.5	ug/Kg	2/18/2016	20:40
Naphthalene	< 12.5	ug/Kg	2/18/2016	20:40
n-Butylbenzene	< 5.01	ug/Kg	2/18/2016	20:40
n-Propylbenzene	< 5.01	ug/Kg	2/18/2016	20:40
o-Xylene	< 5.01	ug/Kg	2/18/2016	20:40
p-Isopropyltoluene	< 5.01	ug/Kg	2/18/2016	20:40
sec-Butylbenzene	< 5.01	ug/Kg	2/18/2016	20:40
Styrene	< 12.5	ug/Kg	2/18/2016	20:40
tert-Butylbenzene	< 5.01	ug/Kg	2/18/2016	20:40
Tetrachloroethene	**13.8**	ug/Kg	2/18/2016	20:40
Toluene	< 5.01	ug/Kg	2/18/2016	20:40
trans-1,2-Dichloroethene	< 5.01	ug/Kg	2/18/2016	20:40
trans-1,3-Dichloropropene	< 5.01	ug/Kg	2/18/2016	20:40

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-2.3		
Lab Sample ID:	160673-06	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Trichloroethene	< 5.01	ug/Kg		2/18/2016	20:40
Trichlorofluoromethane	< 5.01	ug/Kg		2/18/2016	20:40
Vinyl chloride	< 5.01	ug/Kg		2/18/2016	20:40

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**107**	83 - 126		2/18/2016	20:40
4-Bromofluorobenzene	**86.2**	80.8 - 115		2/18/2016	20:40
Pentafluorobenzene	**96.4**	90.6 - 111		2/18/2016	20:40
Toluene-D8	**92.9**	89.2 - 109		2/18/2016	20:40

Method Reference(s): EPA 8260C
EPA 5035

Data File: x29710.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-3.1		
Lab Sample ID:	160673-07	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.20	ug/Kg		2/18/2016 21:04
1,1,2,2-Tetrachloroethane	< 4.20	ug/Kg		2/18/2016 21:04
1,1,2-Trichloroethane	< 4.20	ug/Kg		2/18/2016 21:04
1,1-Dichloroethane	< 4.20	ug/Kg		2/18/2016 21:04
1,1-Dichloroethene	< 4.20	ug/Kg		2/18/2016 21:04
1,2,3-Trichlorobenzene	< 10.5	ug/Kg		2/18/2016 21:04
1,2,4-Trichlorobenzene	< 10.5	ug/Kg		2/18/2016 21:04
1,2,4-Trimethylbenzene	< 4.20	ug/Kg		2/18/2016 21:04
1,2-Dibromo-3-Chloropropane	< 21.0	ug/Kg		2/18/2016 21:04
1,2-Dibromoethane	< 4.20	ug/Kg		2/18/2016 21:04
1,2-Dichlorobenzene	< 4.20	ug/Kg		2/18/2016 21:04
1,2-Dichloroethane	< 4.20	ug/Kg		2/18/2016 21:04
1,2-Dichloropropane	< 4.20	ug/Kg		2/18/2016 21:04
1,3,5-Trimethylbenzene	< 4.20	ug/Kg		2/18/2016 21:04
1,3-Dichlorobenzene	< 4.20	ug/Kg		2/18/2016 21:04
1,4-Dichlorobenzene	< 4.20	ug/Kg		2/18/2016 21:04
1,4-dioxane	< 42.0	ug/Kg		2/18/2016 21:04
2-Butanone	< 21.0	ug/Kg		2/18/2016 21:04
2-Hexanone	< 10.5	ug/Kg		2/18/2016 21:04
4-Methyl-2-pentanone	< 10.5	ug/Kg		2/18/2016 21:04
Acetone	< 21.0	ug/Kg		2/18/2016 21:04
Benzene	< 4.20	ug/Kg		2/18/2016 21:04
Bromochloromethane	< 10.5	ug/Kg		2/18/2016 21:04
Bromodichloromethane	< 4.20	ug/Kg		2/18/2016 21:04
Bromoform	< 10.5	ug/Kg		2/18/2016 21:04
Bromomethane	< 4.20	ug/Kg		2/18/2016 21:04
Carbon disulfide	< 4.20	ug/Kg		2/18/2016 21:04

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-3.1		
Lab Sample ID:	160673-07	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Carbon Tetrachloride	< 4.20	ug/Kg	2/18/2016	21:04
Chlorobenzene	< 4.20	ug/Kg	2/18/2016	21:04
Chloroethane	< 4.20	ug/Kg	2/18/2016	21:04
Chloroform	< 4.20	ug/Kg	2/18/2016	21:04
Chloromethane	< 4.20	ug/Kg	2/18/2016	21:04
cis-1,2-Dichloroethene	< 4.20	ug/Kg	2/18/2016	21:04
cis-1,3-Dichloropropene	< 4.20	ug/Kg	2/18/2016	21:04
Cyclohexane	< 21.0	ug/Kg	2/18/2016	21:04
Dibromochloromethane	< 4.20	ug/Kg	2/18/2016	21:04
Dichlorodifluoromethane	< 4.20	ug/Kg	2/18/2016	21:04
Ethylbenzene	< 4.20	ug/Kg	2/18/2016	21:04
Freon 113	< 4.20	ug/Kg	2/18/2016	21:04
Isopropylbenzene	< 4.20	ug/Kg	2/18/2016	21:04
m,p-Xylene	< 4.20	ug/Kg	2/18/2016	21:04
Methyl acetate	< 4.20	ug/Kg	2/18/2016	21:04
Methyl tert-butyl Ether	< 4.20	ug/Kg	2/18/2016	21:04
Methylcyclohexane	< 4.20	ug/Kg	2/18/2016	21:04
Methylene chloride	< 10.5	ug/Kg	2/18/2016	21:04
Naphthalene	< 10.5	ug/Kg	2/18/2016	21:04
n-Butylbenzene	< 4.20	ug/Kg	2/18/2016	21:04
n-Propylbenzene	< 4.20	ug/Kg	2/18/2016	21:04
o-Xylene	< 4.20	ug/Kg	2/18/2016	21:04
p-Isopropyltoluene	< 4.20	ug/Kg	2/18/2016	21:04
sec-Butylbenzene	< 4.20	ug/Kg	2/18/2016	21:04
Styrene	< 10.5	ug/Kg	2/18/2016	21:04
tert-Butylbenzene	< 4.20	ug/Kg	2/18/2016	21:04
Tetrachloroethene	**5.29**	ug/Kg	2/18/2016	21:04
Toluene	< 4.20	ug/Kg	2/18/2016	21:04
trans-1,2-Dichloroethene	< 4.20	ug/Kg	2/18/2016	21:04
trans-1,3-Dichloropropene	< 4.20	ug/Kg	2/18/2016	21:04

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-3.1		
Lab Sample ID:	160673-07	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Trichloroethene	< 4.20	ug/Kg			2/18/2016 21:04
Trichlorofluoromethane	< 4.20	ug/Kg			2/18/2016 21:04
Vinyl chloride	< 4.20	ug/Kg			2/18/2016 21:04

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**106**	83 - 126		2/18/2016 21:04
4-Bromofluorobenzene	**92.7**	80.8 - 115		2/18/2016 21:04
Pentafluorobenzene	**95.6**	90.6 - 111		2/18/2016 21:04
Toluene-D8	**96.1**	89.2 - 109		2/18/2016 21:04

Method Reference(s): EPA 8260C
EPA 5035

Data File: x29711.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-3.2		
Lab Sample ID:	160673-08	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.39	ug/Kg		2/18/2016 21:28
1,1,2,2-Tetrachloroethane	< 4.39	ug/Kg		2/18/2016 21:28
1,1,2-Trichloroethane	< 4.39	ug/Kg		2/18/2016 21:28
1,1-Dichloroethane	< 4.39	ug/Kg		2/18/2016 21:28
1,1-Dichloroethene	< 4.39	ug/Kg		2/18/2016 21:28
1,2,3-Trichlorobenzene	< 11.0	ug/Kg		2/18/2016 21:28
1,2,4-Trichlorobenzene	< 11.0	ug/Kg		2/18/2016 21:28
1,2,4-Trimethylbenzene	< 4.39	ug/Kg		2/18/2016 21:28
1,2-Dibromo-3-Chloropropane	< 22.0	ug/Kg		2/18/2016 21:28
1,2-Dibromoethane	< 4.39	ug/Kg		2/18/2016 21:28
1,2-Dichlorobenzene	< 4.39	ug/Kg		2/18/2016 21:28
1,2-Dichloroethane	< 4.39	ug/Kg		2/18/2016 21:28
1,2-Dichloropropane	< 4.39	ug/Kg		2/18/2016 21:28
1,3,5-Trimethylbenzene	< 4.39	ug/Kg		2/18/2016 21:28
1,3-Dichlorobenzene	< 4.39	ug/Kg		2/18/2016 21:28
1,4-Dichlorobenzene	< 4.39	ug/Kg		2/18/2016 21:28
1,4-dioxane	< 43.9	ug/Kg		2/18/2016 21:28
2-Butanone	< 22.0	ug/Kg		2/18/2016 21:28
2-Hexanone	< 11.0	ug/Kg		2/18/2016 21:28
4-Methyl-2-pentanone	< 11.0	ug/Kg		2/18/2016 21:28
Acetone	< 22.0	ug/Kg		2/18/2016 21:28
Benzene	< 4.39	ug/Kg		2/18/2016 21:28
Bromochloromethane	< 11.0	ug/Kg		2/18/2016 21:28
Bromodichloromethane	< 4.39	ug/Kg		2/18/2016 21:28
Bromoform	< 11.0	ug/Kg		2/18/2016 21:28
Bromomethane	< 4.39	ug/Kg		2/18/2016 21:28
Carbon disulfide	< 4.39	ug/Kg		2/18/2016 21:28

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-3.2		
Lab Sample ID:	160673-08	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Carbon Tetrachloride	< 4.39	ug/Kg		2/18/2016	21:28
Chlorobenzene	< 4.39	ug/Kg		2/18/2016	21:28
Chloroethane	< 4.39	ug/Kg		2/18/2016	21:28
Chloroform	< 4.39	ug/Kg		2/18/2016	21:28
Chloromethane	< 4.39	ug/Kg		2/18/2016	21:28
cis-1,2-Dichloroethene	< 4.39	ug/Kg		2/18/2016	21:28
cis-1,3-Dichloropropene	< 4.39	ug/Kg		2/18/2016	21:28
Cyclohexane	< 22.0	ug/Kg		2/18/2016	21:28
Dibromochloromethane	< 4.39	ug/Kg		2/18/2016	21:28
Dichlorodifluoromethane	< 4.39	ug/Kg		2/18/2016	21:28
Ethylbenzene	< 4.39	ug/Kg		2/18/2016	21:28
Freon 113	< 4.39	ug/Kg		2/18/2016	21:28
Isopropylbenzene	< 4.39	ug/Kg		2/18/2016	21:28
m,p-Xylene	< 4.39	ug/Kg		2/18/2016	21:28
Methyl acetate	< 4.39	ug/Kg		2/18/2016	21:28
Methyl tert-butyl Ether	< 4.39	ug/Kg		2/18/2016	21:28
Methylcyclohexane	< 4.39	ug/Kg		2/18/2016	21:28
Methylene chloride	< 11.0	ug/Kg		2/18/2016	21:28
Naphthalene	< 11.0	ug/Kg		2/18/2016	21:28
n-Butylbenzene	< 4.39	ug/Kg		2/18/2016	21:28
n-Propylbenzene	< 4.39	ug/Kg		2/18/2016	21:28
o-Xylene	< 4.39	ug/Kg		2/18/2016	21:28
p-Isopropyltoluene	< 4.39	ug/Kg		2/18/2016	21:28
sec-Butylbenzene	< 4.39	ug/Kg		2/18/2016	21:28
Styrene	< 11.0	ug/Kg		2/18/2016	21:28
tert-Butylbenzene	< 4.39	ug/Kg		2/18/2016	21:28
Tetrachloroethene	**2.32**	ug/Kg	J	2/18/2016	21:28
Toluene	< 4.39	ug/Kg		2/18/2016	21:28
trans-1,2-Dichloroethene	< 4.39	ug/Kg		2/18/2016	21:28
trans-1,3-Dichloropropene	< 4.39	ug/Kg		2/18/2016	21:28

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-3.2		
Lab Sample ID:	160673-08	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Trichloroethene	< 4.39	ug/Kg			2/18/2016 21:28
Trichlorofluoromethane	< 4.39	ug/Kg			2/18/2016 21:28
Vinyl chloride	< 4.39	ug/Kg			2/18/2016 21:28

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**107**	83 - 126		2/18/2016 21:28
4-Bromofluorobenzene	**94.3**	80.8 - 115		2/18/2016 21:28
Pentafluorobenzene	**96.1**	90.6 - 111		2/18/2016 21:28
Toluene-D8	**94.4**	89.2 - 109		2/18/2016 21:28

Method Reference(s): EPA 8260C
EPA 5035

Data File: x29712.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-3.3		
Lab Sample ID:	160673-09	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.63	ug/Kg		2/18/2016 21:52
1,1,2,2-Tetrachloroethane	< 4.63	ug/Kg		2/18/2016 21:52
1,1,2-Trichloroethane	< 4.63	ug/Kg		2/18/2016 21:52
1,1-Dichloroethane	< 4.63	ug/Kg		2/18/2016 21:52
1,1-Dichloroethene	< 4.63	ug/Kg		2/18/2016 21:52
1,2,3-Trichlorobenzene	< 11.6	ug/Kg		2/18/2016 21:52
1,2,4-Trichlorobenzene	< 11.6	ug/Kg		2/18/2016 21:52
1,2,4-Trimethylbenzene	< 4.63	ug/Kg		2/18/2016 21:52
1,2-Dibromo-3-Chloropropane	< 23.1	ug/Kg		2/18/2016 21:52
1,2-Dibromoethane	< 4.63	ug/Kg		2/18/2016 21:52
1,2-Dichlorobenzene	< 4.63	ug/Kg		2/18/2016 21:52
1,2-Dichloroethane	< 4.63	ug/Kg		2/18/2016 21:52
1,2-Dichloropropane	< 4.63	ug/Kg		2/18/2016 21:52
1,3,5-Trimethylbenzene	< 4.63	ug/Kg		2/18/2016 21:52
1,3-Dichlorobenzene	< 4.63	ug/Kg		2/18/2016 21:52
1,4-Dichlorobenzene	< 4.63	ug/Kg		2/18/2016 21:52
1,4-dioxane	< 46.3	ug/Kg		2/18/2016 21:52
2-Butanone	< 23.1	ug/Kg		2/18/2016 21:52
2-Hexanone	< 11.6	ug/Kg		2/18/2016 21:52
4-Methyl-2-pentanone	< 11.6	ug/Kg		2/18/2016 21:52
Acetone	< 23.1	ug/Kg		2/18/2016 21:52
Benzene	< 4.63	ug/Kg		2/18/2016 21:52
Bromochloromethane	< 11.6	ug/Kg		2/18/2016 21:52
Bromodichloromethane	< 4.63	ug/Kg		2/18/2016 21:52
Bromoform	< 11.6	ug/Kg		2/18/2016 21:52
Bromomethane	< 4.63	ug/Kg		2/18/2016 21:52
Carbon disulfide	< 4.63	ug/Kg		2/18/2016 21:52

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-3.3		
Lab Sample ID:	160673-09	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Carbon Tetrachloride	< 4.63	ug/Kg	2/18/2016	21:52
Chlorobenzene	< 4.63	ug/Kg	2/18/2016	21:52
Chloroethane	< 4.63	ug/Kg	2/18/2016	21:52
Chloroform	< 4.63	ug/Kg	2/18/2016	21:52
Chloromethane	< 4.63	ug/Kg	2/18/2016	21:52
cis-1,2-Dichloroethene	< 4.63	ug/Kg	2/18/2016	21:52
cis-1,3-Dichloropropene	< 4.63	ug/Kg	2/18/2016	21:52
Cyclohexane	< 23.1	ug/Kg	2/18/2016	21:52
Dibromochloromethane	< 4.63	ug/Kg	2/18/2016	21:52
Dichlorodifluoromethane	< 4.63	ug/Kg	2/18/2016	21:52
Ethylbenzene	< 4.63	ug/Kg	2/18/2016	21:52
Freon 113	< 4.63	ug/Kg	2/18/2016	21:52
Isopropylbenzene	< 4.63	ug/Kg	2/18/2016	21:52
m,p-Xylene	< 4.63	ug/Kg	2/18/2016	21:52
Methyl acetate	< 4.63	ug/Kg	2/18/2016	21:52
Methyl tert-butyl Ether	< 4.63	ug/Kg	2/18/2016	21:52
Methylcyclohexane	< 4.63	ug/Kg	2/18/2016	21:52
Methylene chloride	< 11.6	ug/Kg	2/18/2016	21:52
Naphthalene	< 11.6	ug/Kg	2/18/2016	21:52
n-Butylbenzene	< 4.63	ug/Kg	2/18/2016	21:52
n-Propylbenzene	< 4.63	ug/Kg	2/18/2016	21:52
o-Xylene	< 4.63	ug/Kg	2/18/2016	21:52
p-Isopropyltoluene	< 4.63	ug/Kg	2/18/2016	21:52
sec-Butylbenzene	< 4.63	ug/Kg	2/18/2016	21:52
Styrene	< 11.6	ug/Kg	2/18/2016	21:52
tert-Butylbenzene	< 4.63	ug/Kg	2/18/2016	21:52
Tetrachloroethene	**6.54**	ug/Kg	2/18/2016	21:52
Toluene	< 4.63	ug/Kg	2/18/2016	21:52
trans-1,2-Dichloroethene	< 4.63	ug/Kg	2/18/2016	21:52
trans-1,3-Dichloropropene	< 4.63	ug/Kg	2/18/2016	21:52

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-3.3		
Lab Sample ID:	160673-09	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Trichloroethene	< 4.63	ug/Kg			2/18/2016 21:52
Trichlorofluoromethane	< 4.63	ug/Kg			2/18/2016 21:52
Vinyl chloride	< 4.63	ug/Kg			2/18/2016 21:52

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**105**	83 - 126		2/18/2016 21:52
4-Bromofluorobenzene	**89.7**	80.8 - 115		2/18/2016 21:52
Pentafluorobenzene	**94.3**	90.6 - 111		2/18/2016 21:52
Toluene-D8	**93.7**	89.2 - 109		2/18/2016 21:52

Method Reference(s): EPA 8260C
EPA 5035

Data File: x29713.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-3.4		
Lab Sample ID:	160673-10	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.10	ug/Kg		2/18/2016 22:17
1,1,2,2-Tetrachloroethane	< 4.10	ug/Kg		2/18/2016 22:17
1,1,2-Trichloroethane	< 4.10	ug/Kg		2/18/2016 22:17
1,1-Dichloroethane	< 4.10	ug/Kg		2/18/2016 22:17
1,1-Dichloroethene	< 4.10	ug/Kg		2/18/2016 22:17
1,2,3-Trichlorobenzene	< 10.2	ug/Kg		2/18/2016 22:17
1,2,4-Trichlorobenzene	< 10.2	ug/Kg		2/18/2016 22:17
1,2,4-Trimethylbenzene	< 4.10	ug/Kg		2/18/2016 22:17
1,2-Dibromo-3-Chloropropane	< 20.5	ug/Kg		2/18/2016 22:17
1,2-Dibromoethane	< 4.10	ug/Kg		2/18/2016 22:17
1,2-Dichlorobenzene	< 4.10	ug/Kg		2/18/2016 22:17
1,2-Dichloroethane	< 4.10	ug/Kg		2/18/2016 22:17
1,2-Dichloropropane	< 4.10	ug/Kg		2/18/2016 22:17
1,3,5-Trimethylbenzene	< 4.10	ug/Kg		2/18/2016 22:17
1,3-Dichlorobenzene	< 4.10	ug/Kg		2/18/2016 22:17
1,4-Dichlorobenzene	< 4.10	ug/Kg		2/18/2016 22:17
1,4-dioxane	< 41.0	ug/Kg		2/18/2016 22:17
2-Butanone	< 20.5	ug/Kg		2/18/2016 22:17
2-Hexanone	< 10.2	ug/Kg		2/18/2016 22:17
4-Methyl-2-pentanone	< 10.2	ug/Kg		2/18/2016 22:17
Acetone	< 20.5	ug/Kg		2/18/2016 22:17
Benzene	< 4.10	ug/Kg		2/18/2016 22:17
Bromochloromethane	< 10.2	ug/Kg		2/18/2016 22:17
Bromodichloromethane	< 4.10	ug/Kg		2/18/2016 22:17
Bromoform	< 10.2	ug/Kg		2/18/2016 22:17
Bromomethane	< 4.10	ug/Kg		2/18/2016 22:17
Carbon disulfide	< 4.10	ug/Kg		2/18/2016 22:17

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-3.4		
Lab Sample ID:	160673-10	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Carbon Tetrachloride	< 4.10	ug/Kg	2/18/2016	22:17
Chlorobenzene	< 4.10	ug/Kg	2/18/2016	22:17
Chloroethane	< 4.10	ug/Kg	2/18/2016	22:17
Chloroform	< 4.10	ug/Kg	2/18/2016	22:17
Chloromethane	< 4.10	ug/Kg	2/18/2016	22:17
cis-1,2-Dichloroethene	< 4.10	ug/Kg	2/18/2016	22:17
cis-1,3-Dichloropropene	< 4.10	ug/Kg	2/18/2016	22:17
Cyclohexane	< 20.5	ug/Kg	2/18/2016	22:17
Dibromochloromethane	< 4.10	ug/Kg	2/18/2016	22:17
Dichlorodifluoromethane	< 4.10	ug/Kg	2/18/2016	22:17
Ethylbenzene	< 4.10	ug/Kg	2/18/2016	22:17
Freon 113	< 4.10	ug/Kg	2/18/2016	22:17
Isopropylbenzene	< 4.10	ug/Kg	2/18/2016	22:17
m,p-Xylene	< 4.10	ug/Kg	2/18/2016	22:17
Methyl acetate	< 4.10	ug/Kg	2/18/2016	22:17
Methyl tert-butyl Ether	< 4.10	ug/Kg	2/18/2016	22:17
Methylcyclohexane	< 4.10	ug/Kg	2/18/2016	22:17
Methylene chloride	< 10.2	ug/Kg	2/18/2016	22:17
Naphthalene	< 10.2	ug/Kg	2/18/2016	22:17
n-Butylbenzene	< 4.10	ug/Kg	2/18/2016	22:17
n-Propylbenzene	< 4.10	ug/Kg	2/18/2016	22:17
o-Xylene	< 4.10	ug/Kg	2/18/2016	22:17
p-Isopropyltoluene	< 4.10	ug/Kg	2/18/2016	22:17
sec-Butylbenzene	< 4.10	ug/Kg	2/18/2016	22:17
Styrene	< 10.2	ug/Kg	2/18/2016	22:17
tert-Butylbenzene	< 4.10	ug/Kg	2/18/2016	22:17
Tetrachloroethene	**6.24**	ug/Kg	2/18/2016	22:17
Toluene	< 4.10	ug/Kg	2/18/2016	22:17
trans-1,2-Dichloroethene	< 4.10	ug/Kg	2/18/2016	22:17
trans-1,3-Dichloropropene	< 4.10	ug/Kg	2/18/2016	22:17

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-3.4		
Lab Sample ID:	160673-10	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Trichloroethene	< 4.10	ug/Kg		2/18/2016	22:17
Trichlorofluoromethane	< 4.10	ug/Kg		2/18/2016	22:17
Vinyl chloride	< 4.10	ug/Kg		2/18/2016	22:17

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**109**	83 - 126		2/18/2016	22:17
4-Bromofluorobenzene	**89.8**	80.8 - 115		2/18/2016	22:17
Pentafluorobenzene	**94.7**	90.6 - 111		2/18/2016	22:17
Toluene-D8	**94.6**	89.2 - 109		2/18/2016	22:17

Method Reference(s): EPA 8260C
EPA 5035

Data File: x29714.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-3.5		
Lab Sample ID:	160673-11	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.48	ug/Kg		2/18/2016 22:40
1,1,2,2-Tetrachloroethane	< 4.48	ug/Kg		2/18/2016 22:40
1,1,2-Trichloroethane	< 4.48	ug/Kg		2/18/2016 22:40
1,1-Dichloroethane	< 4.48	ug/Kg		2/18/2016 22:40
1,1-Dichloroethene	< 4.48	ug/Kg		2/18/2016 22:40
1,2,3-Trichlorobenzene	< 11.2	ug/Kg		2/18/2016 22:40
1,2,4-Trichlorobenzene	< 11.2	ug/Kg		2/18/2016 22:40
1,2,4-Trimethylbenzene	< 4.48	ug/Kg		2/18/2016 22:40
1,2-Dibromo-3-Chloropropane	< 22.4	ug/Kg		2/18/2016 22:40
1,2-Dibromoethane	< 4.48	ug/Kg		2/18/2016 22:40
1,2-Dichlorobenzene	< 4.48	ug/Kg		2/18/2016 22:40
1,2-Dichloroethane	< 4.48	ug/Kg		2/18/2016 22:40
1,2-Dichloropropane	< 4.48	ug/Kg		2/18/2016 22:40
1,3,5-Trimethylbenzene	< 4.48	ug/Kg		2/18/2016 22:40
1,3-Dichlorobenzene	< 4.48	ug/Kg		2/18/2016 22:40
1,4-Dichlorobenzene	< 4.48	ug/Kg		2/18/2016 22:40
1,4-dioxane	< 44.8	ug/Kg		2/18/2016 22:40
2-Butanone	< 22.4	ug/Kg		2/18/2016 22:40
2-Hexanone	< 11.2	ug/Kg		2/18/2016 22:40
4-Methyl-2-pentanone	< 11.2	ug/Kg		2/18/2016 22:40
Acetone	< 22.4	ug/Kg		2/18/2016 22:40
Benzene	< 4.48	ug/Kg		2/18/2016 22:40
Bromochloromethane	< 11.2	ug/Kg		2/18/2016 22:40
Bromodichloromethane	< 4.48	ug/Kg		2/18/2016 22:40
Bromoform	< 11.2	ug/Kg		2/18/2016 22:40
Bromomethane	< 4.48	ug/Kg		2/18/2016 22:40
Carbon disulfide	< 4.48	ug/Kg		2/18/2016 22:40

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-3.5		
Lab Sample ID:	160673-11	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Carbon Tetrachloride	< 4.48	ug/Kg	2/18/2016	22:40
Chlorobenzene	< 4.48	ug/Kg	2/18/2016	22:40
Chloroethane	< 4.48	ug/Kg	2/18/2016	22:40
Chloroform	< 4.48	ug/Kg	2/18/2016	22:40
Chloromethane	< 4.48	ug/Kg	2/18/2016	22:40
cis-1,2-Dichloroethene	< 4.48	ug/Kg	2/18/2016	22:40
cis-1,3-Dichloropropene	< 4.48	ug/Kg	2/18/2016	22:40
Cyclohexane	< 22.4	ug/Kg	2/18/2016	22:40
Dibromochloromethane	< 4.48	ug/Kg	2/18/2016	22:40
Dichlorodifluoromethane	< 4.48	ug/Kg	2/18/2016	22:40
Ethylbenzene	< 4.48	ug/Kg	2/18/2016	22:40
Freon 113	< 4.48	ug/Kg	2/18/2016	22:40
Isopropylbenzene	< 4.48	ug/Kg	2/18/2016	22:40
m,p-Xylene	< 4.48	ug/Kg	2/18/2016	22:40
Methyl acetate	< 4.48	ug/Kg	2/18/2016	22:40
Methyl tert-butyl Ether	< 4.48	ug/Kg	2/18/2016	22:40
Methylcyclohexane	< 4.48	ug/Kg	2/18/2016	22:40
Methylene chloride	< 11.2	ug/Kg	2/18/2016	22:40
Naphthalene	< 11.2	ug/Kg	2/18/2016	22:40
n-Butylbenzene	< 4.48	ug/Kg	2/18/2016	22:40
n-Propylbenzene	< 4.48	ug/Kg	2/18/2016	22:40
o-Xylene	< 4.48	ug/Kg	2/18/2016	22:40
p-Isopropyltoluene	< 4.48	ug/Kg	2/18/2016	22:40
sec-Butylbenzene	< 4.48	ug/Kg	2/18/2016	22:40
Styrene	< 11.2	ug/Kg	2/18/2016	22:40
tert-Butylbenzene	< 4.48	ug/Kg	2/18/2016	22:40
Tetrachloroethene	**7.58**	ug/Kg	2/18/2016	22:40
Toluene	< 4.48	ug/Kg	2/18/2016	22:40
trans-1,2-Dichloroethene	< 4.48	ug/Kg	2/18/2016	22:40
trans-1,3-Dichloropropene	< 4.48	ug/Kg	2/18/2016	22:40

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-3.5		
Lab Sample ID:	160673-11	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Trichloroethene	< 4.48	ug/Kg		2/18/2016	22:40
Trichlorofluoromethane	< 4.48	ug/Kg		2/18/2016	22:40
Vinyl chloride	< 4.48	ug/Kg		2/18/2016	22:40

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**109**	83 - 126		2/18/2016	22:40
4-Bromofluorobenzene	**93.3**	80.8 - 115		2/18/2016	22:40
Pentafluorobenzene	**94.9**	90.6 - 111		2/18/2016	22:40
Toluene-D8	**93.8**	89.2 - 109		2/18/2016	22:40

Method Reference(s): EPA 8260C
EPA 5035

Data File: x29715.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-3.6		
Lab Sample ID:	160673-12	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 3.11	ug/Kg		2/18/2016 23:05
1,1,2,2-Tetrachloroethane	< 3.11	ug/Kg		2/18/2016 23:05
1,1,2-Trichloroethane	< 3.11	ug/Kg		2/18/2016 23:05
1,1-Dichloroethane	< 3.11	ug/Kg		2/18/2016 23:05
1,1-Dichloroethene	< 3.11	ug/Kg		2/18/2016 23:05
1,2,3-Trichlorobenzene	< 7.78	ug/Kg		2/18/2016 23:05
1,2,4-Trichlorobenzene	< 7.78	ug/Kg		2/18/2016 23:05
1,2,4-Trimethylbenzene	< 3.11	ug/Kg		2/18/2016 23:05
1,2-Dibromo-3-Chloropropane	< 15.6	ug/Kg		2/18/2016 23:05
1,2-Dibromoethane	< 3.11	ug/Kg		2/18/2016 23:05
1,2-Dichlorobenzene	< 3.11	ug/Kg		2/18/2016 23:05
1,2-Dichloroethane	< 3.11	ug/Kg		2/18/2016 23:05
1,2-Dichloropropane	< 3.11	ug/Kg		2/18/2016 23:05
1,3,5-Trimethylbenzene	< 3.11	ug/Kg		2/18/2016 23:05
1,3-Dichlorobenzene	< 3.11	ug/Kg		2/18/2016 23:05
1,4-Dichlorobenzene	< 3.11	ug/Kg		2/18/2016 23:05
1,4-dioxane	< 31.1	ug/Kg		2/18/2016 23:05
2-Butanone	< 15.6	ug/Kg		2/18/2016 23:05
2-Hexanone	< 7.78	ug/Kg		2/18/2016 23:05
4-Methyl-2-pentanone	< 7.78	ug/Kg		2/18/2016 23:05
Acetone	< 15.6	ug/Kg		2/18/2016 23:05
Benzene	< 3.11	ug/Kg		2/18/2016 23:05
Bromochloromethane	< 7.78	ug/Kg		2/18/2016 23:05
Bromodichloromethane	< 3.11	ug/Kg		2/18/2016 23:05
Bromoform	< 7.78	ug/Kg		2/18/2016 23:05
Bromomethane	< 3.11	ug/Kg		2/18/2016 23:05
Carbon disulfide	< 3.11	ug/Kg		2/18/2016 23:05

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-3.6		
Lab Sample ID:	160673-12	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Carbon Tetrachloride	< 3.11	ug/Kg		2/18/2016	23:05
Chlorobenzene	< 3.11	ug/Kg		2/18/2016	23:05
Chloroethane	< 3.11	ug/Kg		2/18/2016	23:05
Chloroform	< 3.11	ug/Kg		2/18/2016	23:05
Chloromethane	< 3.11	ug/Kg		2/18/2016	23:05
cis-1,2-Dichloroethene	< 3.11	ug/Kg		2/18/2016	23:05
cis-1,3-Dichloropropene	< 3.11	ug/Kg		2/18/2016	23:05
Cyclohexane	< 15.6	ug/Kg		2/18/2016	23:05
Dibromochloromethane	< 3.11	ug/Kg		2/18/2016	23:05
Dichlorodifluoromethane	< 3.11	ug/Kg		2/18/2016	23:05
Ethylbenzene	< 3.11	ug/Kg		2/18/2016	23:05
Freon 113	< 3.11	ug/Kg		2/18/2016	23:05
Isopropylbenzene	< 3.11	ug/Kg		2/18/2016	23:05
m,p-Xylene	< 3.11	ug/Kg		2/18/2016	23:05
Methyl acetate	< 3.11	ug/Kg		2/18/2016	23:05
Methyl tert-butyl Ether	< 3.11	ug/Kg		2/18/2016	23:05
Methylcyclohexane	< 3.11	ug/Kg		2/18/2016	23:05
Methylene chloride	< 7.78	ug/Kg		2/18/2016	23:05
Naphthalene	< 7.78	ug/Kg		2/18/2016	23:05
n-Butylbenzene	< 3.11	ug/Kg		2/18/2016	23:05
n-Propylbenzene	< 3.11	ug/Kg		2/18/2016	23:05
o-Xylene	< 3.11	ug/Kg		2/18/2016	23:05
p-Isopropyltoluene	< 3.11	ug/Kg		2/18/2016	23:05
sec-Butylbenzene	< 3.11	ug/Kg		2/18/2016	23:05
Styrene	< 7.78	ug/Kg		2/18/2016	23:05
tert-Butylbenzene	< 3.11	ug/Kg		2/18/2016	23:05
Tetrachloroethene	**2.09**	ug/Kg	J	2/18/2016	23:05
Toluene	< 3.11	ug/Kg		2/18/2016	23:05
trans-1,2-Dichloroethene	< 3.11	ug/Kg		2/18/2016	23:05
trans-1,3-Dichloropropene	< 3.11	ug/Kg		2/18/2016	23:05

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-3.6		
Lab Sample ID:	160673-12	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Trichloroethene	< 3.11	ug/Kg		2/18/2016	23:05
Trichlorofluoromethane	< 3.11	ug/Kg		2/18/2016	23:05
Vinyl chloride	< 3.11	ug/Kg		2/18/2016	23:05

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**108**	83 - 126		2/18/2016	23:05
4-Bromofluorobenzene	**99.9**	80.8 - 115		2/18/2016	23:05
Pentafluorobenzene	**96.2**	90.6 - 111		2/18/2016	23:05
Toluene-D8	**94.3**	89.2 - 109		2/18/2016	23:05

Method Reference(s): EPA 8260C
EPA 5035

Data File: x29716.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-6.1		
Lab Sample ID:	160673-13	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 3.98	ug/Kg		2/18/2016 23:29
1,1,2,2-Tetrachloroethane	< 3.98	ug/Kg		2/18/2016 23:29
1,1,2-Trichloroethane	< 3.98	ug/Kg		2/18/2016 23:29
1,1-Dichloroethane	< 3.98	ug/Kg		2/18/2016 23:29
1,1-Dichloroethene	< 3.98	ug/Kg		2/18/2016 23:29
1,2,3-Trichlorobenzene	< 9.94	ug/Kg		2/18/2016 23:29
1,2,4-Trichlorobenzene	< 9.94	ug/Kg		2/18/2016 23:29
1,2,4-Trimethylbenzene	< 3.98	ug/Kg		2/18/2016 23:29
1,2-Dibromo-3-Chloropropane	< 19.9	ug/Kg		2/18/2016 23:29
1,2-Dibromoethane	< 3.98	ug/Kg		2/18/2016 23:29
1,2-Dichlorobenzene	< 3.98	ug/Kg		2/18/2016 23:29
1,2-Dichloroethane	< 3.98	ug/Kg		2/18/2016 23:29
1,2-Dichloropropane	< 3.98	ug/Kg		2/18/2016 23:29
1,3,5-Trimethylbenzene	< 3.98	ug/Kg		2/18/2016 23:29
1,3-Dichlorobenzene	< 3.98	ug/Kg		2/18/2016 23:29
1,4-Dichlorobenzene	< 3.98	ug/Kg		2/18/2016 23:29
1,4-dioxane	< 39.8	ug/Kg		2/18/2016 23:29
2-Butanone	< 19.9	ug/Kg		2/18/2016 23:29
2-Hexanone	< 9.94	ug/Kg		2/18/2016 23:29
4-Methyl-2-pentanone	< 9.94	ug/Kg		2/18/2016 23:29
Acetone	< 19.9	ug/Kg		2/18/2016 23:29
Benzene	< 3.98	ug/Kg		2/18/2016 23:29
Bromochloromethane	< 9.94	ug/Kg		2/18/2016 23:29
Bromodichloromethane	< 3.98	ug/Kg		2/18/2016 23:29
Bromoform	< 9.94	ug/Kg		2/18/2016 23:29
Bromomethane	< 3.98	ug/Kg		2/18/2016 23:29
Carbon disulfide	< 3.98	ug/Kg		2/18/2016 23:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-6.1		
Lab Sample ID:	160673-13	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Carbon Tetrachloride	< 3.98	ug/Kg		2/18/2016	23:29
Chlorobenzene	< 3.98	ug/Kg		2/18/2016	23:29
Chloroethane	< 3.98	ug/Kg		2/18/2016	23:29
Chloroform	< 3.98	ug/Kg		2/18/2016	23:29
Chloromethane	< 3.98	ug/Kg		2/18/2016	23:29
cis-1,2-Dichloroethene	< 3.98	ug/Kg		2/18/2016	23:29
cis-1,3-Dichloropropene	< 3.98	ug/Kg		2/18/2016	23:29
Cyclohexane	< 19.9	ug/Kg		2/18/2016	23:29
Dibromochloromethane	< 3.98	ug/Kg		2/18/2016	23:29
Dichlorodifluoromethane	< 3.98	ug/Kg		2/18/2016	23:29
Ethylbenzene	< 3.98	ug/Kg		2/18/2016	23:29
Freon 113	< 3.98	ug/Kg		2/18/2016	23:29
Isopropylbenzene	< 3.98	ug/Kg		2/18/2016	23:29
m,p-Xylene	< 3.98	ug/Kg		2/18/2016	23:29
Methyl acetate	< 3.98	ug/Kg		2/18/2016	23:29
Methyl tert-butyl Ether	< 3.98	ug/Kg		2/18/2016	23:29
Methylcyclohexane	< 3.98	ug/Kg		2/18/2016	23:29
Methylene chloride	< 9.94	ug/Kg		2/18/2016	23:29
Naphthalene	< 9.94	ug/Kg		2/18/2016	23:29
n-Butylbenzene	< 3.98	ug/Kg		2/18/2016	23:29
n-Propylbenzene	< 3.98	ug/Kg		2/18/2016	23:29
o-Xylene	< 3.98	ug/Kg		2/18/2016	23:29
p-Isopropyltoluene	**37.1**	ug/Kg		2/18/2016	23:29
sec-Butylbenzene	< 3.98	ug/Kg		2/18/2016	23:29
Styrene	< 9.94	ug/Kg		2/18/2016	23:29
tert-Butylbenzene	< 3.98	ug/Kg		2/18/2016	23:29
Tetrachloroethene	**3.75**	ug/Kg	J	2/18/2016	23:29
Toluene	< 3.98	ug/Kg		2/18/2016	23:29
trans-1,2-Dichloroethene	< 3.98	ug/Kg		2/18/2016	23:29
trans-1,3-Dichloropropene	< 3.98	ug/Kg		2/18/2016	23:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	R-6.1		
Lab Sample ID:	160673-13	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Trichloroethene	< 3.98	ug/Kg		2/18/2016	23:29
Trichlorofluoromethane	< 3.98	ug/Kg		2/18/2016	23:29
Vinyl chloride	< 3.98	ug/Kg		2/18/2016	23:29

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**103**	83 - 126		2/18/2016	23:29
4-Bromofluorobenzene	**98.1**	80.8 - 115		2/18/2016	23:29
Pentafluorobenzene	**95.4**	90.6 - 111		2/18/2016	23:29
Toluene-D8	**93.6**	89.2 - 109		2/18/2016	23:29

Method Reference(s): EPA 8260C
EPA 5035

Data File: x29717.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #1(R1.1,R1.2,R1.3)		
Lab Sample ID:	160673-14	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**6.97**	mg/Kg		2/19/2016 14:23
Barium	**50.8**	mg/Kg		2/19/2016 14:23
Beryllium	**0.330**	mg/Kg		2/19/2016 14:23
Cadmium	**1.35**	mg/Kg		2/19/2016 14:23
Chromium	**18.9**	mg/Kg		2/19/2016 14:23
Copper	**30.6**	mg/Kg		2/19/2016 14:23
Lead	**74.7**	mg/Kg		2/19/2016 14:23
Manganese	**379**	mg/Kg		2/19/2016 14:23
Nickel	**14.5**	mg/Kg		2/19/2016 14:23
Selenium	**1.00**	mg/Kg		2/19/2016 14:23
Silver	**0.405**	mg/Kg	J	2/19/2016 14:23
Zinc	**207**	mg/Kg		2/19/2016 14:23

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 2/17/2016
Data File: 021916b

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #1(R1.1,R1.2,R1.3)		
Lab Sample ID:	160673-14	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0710**	mg/Kg		2/19/2016 12:30

Method Reference(s): EPA 7471B
Preparation Date: 2/18/2016
Data File: Hg160219A

Report Prepared Thursday, February 25, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #1(R1.1,R1.2,R1.3)		
Lab Sample ID:	160673-14	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.168	mg/Kg		2/24/2016 17:22
PCB-1221	< 0.168	mg/Kg		2/24/2016 17:22
PCB-1232	< 0.168	mg/Kg		2/24/2016 17:22
PCB-1242	< 0.168	mg/Kg		2/24/2016 17:22
PCB-1248	< 0.168	mg/Kg		2/24/2016 17:22
PCB-1254	**1.94**	mg/Kg		2/24/2016 17:22
PCB-1260	< 0.168	mg/Kg		2/24/2016 17:22
PCB-1262	< 0.168	mg/Kg		2/24/2016 17:22
PCB-1268	< 0.168	mg/Kg		2/24/2016 17:22

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**190**	17.6 - 142	*	2/24/2016 17:22
Tetrachloro-m-xylene	**122**	0 - 152		2/24/2016 17:22

Method Reference(s): EPA 8082A
EPA 3550C

Preparation Date: 2/23/2016

Report Prepared Thursday, February 25, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #1(R1.1,R1.2,R1.3)		
Lab Sample ID:	160673-14	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 336	ug/Kg		2/22/2016 17:19
1,2,4,5-Tetrachlorobenzene	< 336	ug/Kg		2/22/2016 17:19
1,2,4-Trichlorobenzene	< 336	ug/Kg		2/22/2016 17:19
1,2-Dichlorobenzene	< 336	ug/Kg		2/22/2016 17:19
1,3-Dichlorobenzene	< 336	ug/Kg		2/22/2016 17:19
1,4-Dichlorobenzene	< 336	ug/Kg		2/22/2016 17:19
2,3,4,6-Tetrachlorophenol	< 336	ug/Kg		2/22/2016 17:19
2,4,5-Trichlorophenol	< 671	ug/Kg		2/22/2016 17:19
2,4,6-Trichlorophenol	< 336	ug/Kg		2/22/2016 17:19
2,4-Dichlorophenol	< 336	ug/Kg		2/22/2016 17:19
2,4-Dimethylphenol	< 336	ug/Kg		2/22/2016 17:19
2,4-Dinitrophenol	< 671	ug/Kg		2/22/2016 17:19
2,4-Dinitrotoluene	< 336	ug/Kg		2/22/2016 17:19
2,6-Dinitrotoluene	< 336	ug/Kg		2/22/2016 17:19
2-Chloronaphthalene	< 336	ug/Kg		2/22/2016 17:19
2-Chlorophenol	< 336	ug/Kg		2/22/2016 17:19
2-Methylnapthalene	< 336	ug/Kg		2/22/2016 17:19
2-Methylphenol	< 336	ug/Kg		2/22/2016 17:19
2-Nitroaniline	< 671	ug/Kg		2/22/2016 17:19
2-Nitrophenol	< 336	ug/Kg		2/22/2016 17:19
3&4-Methylphenol	< 336	ug/Kg		2/22/2016 17:19
3,3'-Dichlorobenzidine	< 336	ug/Kg		2/22/2016 17:19
3-Nitroaniline	< 671	ug/Kg		2/22/2016 17:19
4,6-Dinitro-2-methylphenol	< 671	ug/Kg		2/22/2016 17:19
4-Bromophenyl phenyl ether	< 336	ug/Kg		2/22/2016 17:19
4-Chloro-3-methylphenol	< 336	ug/Kg		2/22/2016 17:19
4-Chloroaniline	< 336	ug/Kg		2/22/2016 17:19

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #1(R1.1,R1.2,R1.3)		
Lab Sample ID:	160673-14	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

4-Chlorophenyl phenyl ether	< 336	ug/Kg	2/22/2016	17:19
4-Nitroaniline	< 671	ug/Kg	2/22/2016	17:19
4-Nitrophenol	< 671	ug/Kg	2/22/2016	17:19
Acenaphthene	< 336	ug/Kg	2/22/2016	17:19
Acenaphthylene	< 336	ug/Kg	2/22/2016	17:19
Acetophenone	< 336	ug/Kg	2/22/2016	17:19
Anthracene	< 336	ug/Kg	2/22/2016	17:19
Atrazine	< 336	ug/Kg	2/22/2016	17:19
Benzaldehyde	< 336	ug/Kg	2/22/2016	17:19
Benzo (a) anthracene	**1020**	ug/Kg	2/22/2016	17:19
Benzo (a) pyrene	**1500**	ug/Kg	2/22/2016	17:19
Benzo (b) fluoranthene	**1920**	ug/Kg	2/22/2016	17:19
Benzo (g,h,i) perylene	**1490**	ug/Kg	2/22/2016	17:19
Benzo (k) fluoranthene	**1190**	ug/Kg	2/22/2016	17:19
Bis (2-chloroethoxy) methane	< 336	ug/Kg	2/22/2016	17:19
Bis (2-chloroethyl) ether	< 336	ug/Kg	2/22/2016	17:19
Bis (2-chloroisopropyl) ether	< 336	ug/Kg	2/22/2016	17:19
Bis (2-ethylhexyl) phthalate	< 336	ug/Kg	2/22/2016	17:19
Butylbenzylphthalate	< 336	ug/Kg	2/22/2016	17:19
Caprolactam	< 336	ug/Kg	2/22/2016	17:19
Carbazole	< 336	ug/Kg	2/22/2016	17:19
Chrysene	**1340**	ug/Kg	2/22/2016	17:19
Dibenz (a,h) anthracene	**379**	ug/Kg	2/22/2016	17:19
Dibenzofuran	< 336	ug/Kg	2/22/2016	17:19
Diethyl phthalate	< 336	ug/Kg	2/22/2016	17:19
Dimethyl phthalate	< 671	ug/Kg	2/22/2016	17:19
Di-n-butyl phthalate	< 336	ug/Kg	2/22/2016	17:19
Di-n-octylphthalate	< 336	ug/Kg	2/22/2016	17:19
Fluoranthene	**1300**	ug/Kg	2/22/2016	17:19
Fluorene	< 336	ug/Kg	2/22/2016	17:19

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier: Composite #1(R1.1,R1.2,R1.3)
Lab Sample ID: 160673-14 **Date Sampled:** 2/12/2016
Matrix: Soil **Date Received:** 2/12/2016

Hexachlorobenzene	< 336	ug/Kg	2/22/2016	17:19
Hexachlorobutadiene	< 336	ug/Kg	2/22/2016	17:19
Hexachlorocyclopentadiene	< 336	ug/Kg	2/22/2016	17:19
Hexachloroethane	< 336	ug/Kg	2/22/2016	17:19
Indeno (1,2,3-cd) pyrene	**1690**	ug/Kg	2/22/2016	17:19
Isophorone	< 336	ug/Kg	2/22/2016	17:19
Naphthalene	< 336	ug/Kg	2/22/2016	17:19
Nitrobenzene	< 336	ug/Kg	2/22/2016	17:19
N-Nitroso-di-n-propylamine	< 336	ug/Kg	2/22/2016	17:19
N-Nitrosodiphenylamine	< 336	ug/Kg	2/22/2016	17:19
Pentachlorophenol	< 671	ug/Kg	2/22/2016	17:19
Phenanthrene	**513**	ug/Kg	2/22/2016	17:19
Phenol	< 336	ug/Kg	2/22/2016	17:19
Pyrene	**1290**	ug/Kg	2/22/2016	17:19

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**74.3**	36.2 - 107		2/22/2016	17:19
2-Fluorobiphenyl	**55.5**	22 - 96.1		2/22/2016	17:19
2-Fluorophenol	**45.3**	14.2 - 89.8		2/22/2016	17:19
Nitrobenzene-d5	**43.7**	11.6 - 83.3		2/22/2016	17:19
Phenol-d5	**50.7**	19.4 - 102		2/22/2016	17:19
Terphenyl-d14	**75.1**	60.4 - 114		2/22/2016	17:19

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 2/22/2016
Data File: B10291.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #1(R1.1,R1.2,R1.3)		
Lab Sample ID:	160673-14	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	**1.34**	mg/Kg		2/24/2016

Method Reference(s): EPA 9014
Preparation Date: 2/24/2016

Report Prepared Thursday, February 25, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #2(R2.1,R2.2,R2.3)		
Lab Sample ID:	160673-15	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**2.84**	mg/Kg		2/19/2016 14:28
Barium	**40.9**	mg/Kg		2/19/2016 14:28
Beryllium	**0.306**	mg/Kg		2/19/2016 14:28
Cadmium	**0.976**	mg/Kg		2/19/2016 14:28
Chromium	**14.3**	mg/Kg		2/19/2016 14:28
Copper	**46.9**	mg/Kg		2/19/2016 14:28
Lead	**139**	mg/Kg		2/19/2016 14:28
Manganese	**223**	mg/Kg		2/19/2016 14:28
Nickel	**15.8**	mg/Kg		2/19/2016 14:28
Selenium	**0.773**	mg/Kg		2/19/2016 14:28
Silver	**0.374**	mg/Kg	J	2/19/2016 14:28
Zinc	**199**	mg/Kg		2/19/2016 14:28

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 2/17/2016
Data File: 021916b

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #2(R2.1,R2.2,R2.3)		
Lab Sample ID:	160673-15	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.442**	mg/Kg		2/19/2016 12:33

Method Reference(s): EPA 7471B
Preparation Date: 2/18/2016
Data File: Hg160219A

Report Prepared Thursday, February 25, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #2(R2.1,R2.2,R2.3)		
Lab Sample ID:	160673-15	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0342	mg/Kg		2/24/2016 17:45
PCB-1221	< 0.0342	mg/Kg		2/24/2016 17:45
PCB-1232	< 0.0342	mg/Kg		2/24/2016 17:45
PCB-1242	< 0.0342	mg/Kg		2/24/2016 17:45
PCB-1248	< 0.0342	mg/Kg		2/24/2016 17:45
PCB-1254	**0.461**	mg/Kg		2/24/2016 17:45
PCB-1260	< 0.0342	mg/Kg		2/24/2016 17:45
PCB-1262	< 0.0342	mg/Kg		2/24/2016 17:45
PCB-1268	< 0.0342	mg/Kg		2/24/2016 17:45

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**139**	17.6 - 142		2/24/2016 17:45
Tetrachloro-m-xylene	**93.9**	0 - 152		2/24/2016 17:45

Method Reference(s): EPA 8082A
EPA 3550C

Preparation Date: 2/23/2016

Report Prepared Thursday, February 25, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #2(R2.1,R2.2,R2.3)		
Lab Sample ID:	160673-15	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 345	ug/Kg		2/22/2016 17:48
1,2,4,5-Tetrachlorobenzene	< 345	ug/Kg		2/22/2016 17:48
1,2,4-Trichlorobenzene	< 345	ug/Kg		2/22/2016 17:48
1,2-Dichlorobenzene	< 345	ug/Kg		2/22/2016 17:48
1,3-Dichlorobenzene	< 345	ug/Kg		2/22/2016 17:48
1,4-Dichlorobenzene	< 345	ug/Kg		2/22/2016 17:48
2,3,4,6-Tetrachlorophenol	< 345	ug/Kg		2/22/2016 17:48
2,4,5-Trichlorophenol	< 691	ug/Kg		2/22/2016 17:48
2,4,6-Trichlorophenol	< 345	ug/Kg		2/22/2016 17:48
2,4-Dichlorophenol	< 345	ug/Kg		2/22/2016 17:48
2,4-Dimethylphenol	< 345	ug/Kg		2/22/2016 17:48
2,4-Dinitrophenol	< 691	ug/Kg		2/22/2016 17:48
2,4-Dinitrotoluene	< 345	ug/Kg		2/22/2016 17:48
2,6-Dinitrotoluene	< 345	ug/Kg		2/22/2016 17:48
2-Chloronaphthalene	< 345	ug/Kg		2/22/2016 17:48
2-Chlorophenol	< 345	ug/Kg		2/22/2016 17:48
2-Methylnapthalene	< 345	ug/Kg		2/22/2016 17:48
2-Methylphenol	< 345	ug/Kg		2/22/2016 17:48
2-Nitroaniline	< 691	ug/Kg		2/22/2016 17:48
2-Nitrophenol	< 345	ug/Kg		2/22/2016 17:48
3&4-Methylphenol	< 345	ug/Kg		2/22/2016 17:48
3,3'-Dichlorobenzidine	< 345	ug/Kg		2/22/2016 17:48
3-Nitroaniline	< 691	ug/Kg		2/22/2016 17:48
4,6-Dinitro-2-methylphenol	< 691	ug/Kg		2/22/2016 17:48
4-Bromophenyl phenyl ether	< 345	ug/Kg		2/22/2016 17:48
4-Chloro-3-methylphenol	< 345	ug/Kg		2/22/2016 17:48
4-Chloroaniline	< 345	ug/Kg		2/22/2016 17:48

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #2(R2.1,R2.2,R2.3)		
Lab Sample ID:	160673-15	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

4-Chlorophenyl phenyl ether	< 345	ug/Kg	2/22/2016	17:48
4-Nitroaniline	< 691	ug/Kg	2/22/2016	17:48
4-Nitrophenol	< 691	ug/Kg	2/22/2016	17:48
Acenaphthene	< 345	ug/Kg	2/22/2016	17:48
Acenaphthylene	< 345	ug/Kg	2/22/2016	17:48
Acetophenone	< 345	ug/Kg	2/22/2016	17:48
Anthracene	< 345	ug/Kg	2/22/2016	17:48
Atrazine	< 345	ug/Kg	2/22/2016	17:48
Benzaldehyde	< 345	ug/Kg	2/22/2016	17:48
Benzo (a) anthracene	**529**	ug/Kg	2/22/2016	17:48
Benzo (a) pyrene	**548**	ug/Kg	2/22/2016	17:48
Benzo (b) fluoranthene	**526**	ug/Kg	2/22/2016	17:48
Benzo (g,h,i) perylene	**399**	ug/Kg	2/22/2016	17:48
Benzo (k) fluoranthene	**467**	ug/Kg	2/22/2016	17:48
Bis (2-chloroethoxy) methane	< 345	ug/Kg	2/22/2016	17:48
Bis (2-chloroethyl) ether	< 345	ug/Kg	2/22/2016	17:48
Bis (2-chloroisopropyl) ether	< 345	ug/Kg	2/22/2016	17:48
Bis (2-ethylhexyl) phthalate	< 345	ug/Kg	2/22/2016	17:48
Butylbenzylphthalate	< 345	ug/Kg	2/22/2016	17:48
Caprolactam	< 345	ug/Kg	2/22/2016	17:48
Carbazole	< 345	ug/Kg	2/22/2016	17:48
Chrysene	**565**	ug/Kg	2/22/2016	17:48
Dibenz (a,h) anthracene	< 345	ug/Kg	2/22/2016	17:48
Dibenzofuran	< 345	ug/Kg	2/22/2016	17:48
Diethyl phthalate	< 345	ug/Kg	2/22/2016	17:48
Dimethyl phthalate	< 691	ug/Kg	2/22/2016	17:48
Di-n-butyl phthalate	< 345	ug/Kg	2/22/2016	17:48
Di-n-octylphthalate	< 345	ug/Kg	2/22/2016	17:48
Fluoranthene	**1060**	ug/Kg	2/22/2016	17:48
Fluorene	< 345	ug/Kg	2/22/2016	17:48

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier: Composite #2(R2.1,R2.2,R2.3)
Lab Sample ID: 160673-15 **Date Sampled:** 2/12/2016
Matrix: Soil **Date Received:** 2/12/2016

Hexachlorobenzene	< 345	ug/Kg	2/22/2016	17:48
Hexachlorobutadiene	< 345	ug/Kg	2/22/2016	17:48
Hexachlorocyclopentadiene	< 345	ug/Kg	2/22/2016	17:48
Hexachloroethane	< 345	ug/Kg	2/22/2016	17:48
Indeno (1,2,3-cd) pyrene	**472**	ug/Kg	2/22/2016	17:48
Isophorone	< 345	ug/Kg	2/22/2016	17:48
Naphthalene	< 345	ug/Kg	2/22/2016	17:48
Nitrobenzene	< 345	ug/Kg	2/22/2016	17:48
N-Nitroso-di-n-propylamine	< 345	ug/Kg	2/22/2016	17:48
N-Nitrosodiphenylamine	< 345	ug/Kg	2/22/2016	17:48
Pentachlorophenol	< 691	ug/Kg	2/22/2016	17:48
Phenanthrene	**579**	ug/Kg	2/22/2016	17:48
Phenol	< 345	ug/Kg	2/22/2016	17:48
Pyrene	**892**	ug/Kg	2/22/2016	17:48

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**66.9**	36.2 - 107		2/22/2016	17:48
2-Fluorobiphenyl	**55.6**	22 - 96.1		2/22/2016	17:48
2-Fluorophenol	**48.8**	14.2 - 89.8		2/22/2016	17:48
Nitrobenzene-d5	**46.7**	11.6 - 83.3		2/22/2016	17:48
Phenol-d5	**52.7**	19.4 - 102		2/22/2016	17:48
Terphenyl-d14	**68.7**	60.4 - 114		2/22/2016	17:48

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 2/22/2016
Data File: B10292.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #2(R2.1,R2.2,R2.3)		
Lab Sample ID:	160673-15	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.457	mg/Kg		2/24/2016

Method Reference(s): EPA 9014
Preparation Date: 2/24/2016

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, February 25, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #3(R3.1,R3.2,R3.3)		
Lab Sample ID:	160673-16	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**2.88**	mg/Kg		2/19/2016 14:32
Barium	**58.7**	mg/Kg		2/19/2016 14:32
Beryllium	**0.292**	mg/Kg		2/19/2016 14:32
Cadmium	**1.83**	mg/Kg		2/19/2016 14:32
Chromium	**103**	mg/Kg		2/19/2016 14:32
Copper	**51.2**	mg/Kg		2/19/2016 14:32
Lead	**87.6**	mg/Kg		2/19/2016 14:32
Manganese	**289**	mg/Kg		2/19/2016 14:32
Nickel	**60.4**	mg/Kg		2/19/2016 14:32
Selenium	**0.969**	mg/Kg		2/19/2016 14:32
Silver	**0.582**	mg/Kg		2/19/2016 14:32
Zinc	**172**	mg/Kg		2/19/2016 14:32

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 2/17/2016
Data File: 021916b

Report Prepared Thursday, February 25, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #3(R3.1,R3.2,R3.3)		
Lab Sample ID:	160673-16	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.207**	mg/Kg		2/19/2016 12:36

Method Reference(s): EPA 7471B
Preparation Date: 2/18/2016
Data File: Hg160219A

Report Prepared Thursday, February 25, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #3(R3.1,R3.2,R3.3)		
Lab Sample ID:	160673-16	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.674	mg/Kg		2/24/2016 18:08
PCB-1221	< 0.674	mg/Kg		2/24/2016 18:08
PCB-1232	< 0.674	mg/Kg		2/24/2016 18:08
PCB-1242	< 0.674	mg/Kg		2/24/2016 18:08
PCB-1248	< 0.674	mg/Kg		2/24/2016 18:08
PCB-1254	**3.37**	mg/Kg		2/24/2016 18:08
PCB-1260	< 0.674	mg/Kg		2/24/2016 18:08
PCB-1262	< 0.674	mg/Kg		2/24/2016 18:08
PCB-1268	< 0.674	mg/Kg		2/24/2016 18:08

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	NC	17.6 - 142		2/24/2016 18:08
Tetrachloro-m-xylene	NC	0 - 152		2/24/2016 18:08

Method Reference(s): EPA 8082A
EPA 3550C

Preparation Date: 2/23/2016

Report Prepared Thursday, February 25, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #3(R3.1,R3.2,R3.3)		
Lab Sample ID:	160673-16	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 340	ug/Kg		2/22/2016 18:17
1,2,4,5-Tetrachlorobenzene	< 340	ug/Kg		2/22/2016 18:17
1,2,4-Trichlorobenzene	< 340	ug/Kg		2/22/2016 18:17
1,2-Dichlorobenzene	< 340	ug/Kg		2/22/2016 18:17
1,3-Dichlorobenzene	< 340	ug/Kg		2/22/2016 18:17
1,4-Dichlorobenzene	< 340	ug/Kg		2/22/2016 18:17
2,3,4,6-Tetrachlorophenol	< 340	ug/Kg		2/22/2016 18:17
2,4,5-Trichlorophenol	< 680	ug/Kg		2/22/2016 18:17
2,4,6-Trichlorophenol	< 340	ug/Kg		2/22/2016 18:17
2,4-Dichlorophenol	< 340	ug/Kg		2/22/2016 18:17
2,4-Dimethylphenol	< 340	ug/Kg		2/22/2016 18:17
2,4-Dinitrophenol	< 680	ug/Kg		2/22/2016 18:17
2,4-Dinitrotoluene	< 340	ug/Kg		2/22/2016 18:17
2,6-Dinitrotoluene	< 340	ug/Kg		2/22/2016 18:17
2-Chloronaphthalene	< 340	ug/Kg		2/22/2016 18:17
2-Chlorophenol	< 340	ug/Kg		2/22/2016 18:17
2-Methylnapthalene	< 340	ug/Kg		2/22/2016 18:17
2-Methylphenol	< 340	ug/Kg		2/22/2016 18:17
2-Nitroaniline	< 680	ug/Kg		2/22/2016 18:17
2-Nitrophenol	< 340	ug/Kg		2/22/2016 18:17
3&4-Methylphenol	< 340	ug/Kg		2/22/2016 18:17
3,3'-Dichlorobenzidine	< 340	ug/Kg		2/22/2016 18:17
3-Nitroaniline	< 680	ug/Kg		2/22/2016 18:17
4,6-Dinitro-2-methylphenol	< 680	ug/Kg		2/22/2016 18:17
4-Bromophenyl phenyl ether	< 340	ug/Kg		2/22/2016 18:17
4-Chloro-3-methylphenol	< 340	ug/Kg		2/22/2016 18:17
4-Chloroaniline	< 340	ug/Kg		2/22/2016 18:17

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #3(R3.1,R3.2,R3.3)		
Lab Sample ID:	160673-16	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

4-Chlorophenyl phenyl ether	< 340	ug/Kg		2/22/2016	18:17
4-Nitroaniline	< 680	ug/Kg		2/22/2016	18:17
4-Nitrophenol	< 680	ug/Kg		2/22/2016	18:17
Acenaphthene	< 340	ug/Kg		2/22/2016	18:17
Acenaphthylene	< 340	ug/Kg		2/22/2016	18:17
Acetophenone	< 340	ug/Kg		2/22/2016	18:17
Anthracene	< 340	ug/Kg		2/22/2016	18:17
Atrazine	< 340	ug/Kg		2/22/2016	18:17
Benzaldehyde	< 340	ug/Kg		2/22/2016	18:17
Benzo (a) anthracene	**380**	ug/Kg		2/22/2016	18:17
Benzo (a) pyrene	**357**	ug/Kg		2/22/2016	18:17
Benzo (b) fluoranthene	**347**	ug/Kg		2/22/2016	18:17
Benzo (g,h,i) perylene	**264**	ug/Kg	J	2/22/2016	18:17
Benzo (k) fluoranthene	**338**	ug/Kg	J	2/22/2016	18:17
Bis (2-chloroethoxy) methane	< 340	ug/Kg		2/22/2016	18:17
Bis (2-chloroethyl) ether	< 340	ug/Kg		2/22/2016	18:17
Bis (2-chloroisopropyl) ether	< 340	ug/Kg		2/22/2016	18:17
Bis (2-ethylhexyl) phthalate	< 340	ug/Kg		2/22/2016	18:17
Butylbenzylphthalate	< 340	ug/Kg		2/22/2016	18:17
Caprolactam	< 340	ug/Kg		2/22/2016	18:17
Carbazole	< 340	ug/Kg		2/22/2016	18:17
Chrysene	**425**	ug/Kg		2/22/2016	18:17
Dibenz (a,h) anthracene	< 340	ug/Kg		2/22/2016	18:17
Dibenzofuran	< 340	ug/Kg		2/22/2016	18:17
Diethyl phthalate	< 340	ug/Kg		2/22/2016	18:17
Dimethyl phthalate	< 680	ug/Kg		2/22/2016	18:17
Di-n-butyl phthalate	< 340	ug/Kg		2/22/2016	18:17
Di-n-octylphthalate	< 340	ug/Kg		2/22/2016	18:17
Fluoranthene	**827**	ug/Kg		2/22/2016	18:17
Fluorene	< 340	ug/Kg		2/22/2016	18:17

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier: Composite #3(R3.1,R3.2,R3.3)
Lab Sample ID: 160673-16 **Date Sampled:** 2/12/2016
Matrix: Soil **Date Received:** 2/12/2016

Hexachlorobenzene	< 340	ug/Kg		2/22/2016	18:17
Hexachlorobutadiene	< 340	ug/Kg		2/22/2016	18:17
Hexachlorocyclopentadiene	< 340	ug/Kg		2/22/2016	18:17
Hexachloroethane	< 340	ug/Kg		2/22/2016	18:17
Indeno (1,2,3-cd) pyrene	**313**	ug/Kg	J	2/22/2016	18:17
Isophorone	< 340	ug/Kg		2/22/2016	18:17
Naphthalene	< 340	ug/Kg		2/22/2016	18:17
Nitrobenzene	< 340	ug/Kg		2/22/2016	18:17
N-Nitroso-di-n-propylamine	< 340	ug/Kg		2/22/2016	18:17
N-Nitrosodiphenylamine	< 340	ug/Kg		2/22/2016	18:17
Pentachlorophenol	< 680	ug/Kg		2/22/2016	18:17
Phenanthrene	**489**	ug/Kg		2/22/2016	18:17
Phenol	< 340	ug/Kg		2/22/2016	18:17
Pyrene	**679**	ug/Kg		2/22/2016	18:17

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**69.8**	36.2 - 107		2/22/2016	18:17
2-Fluorobiphenyl	**60.1**	22 - 96.1		2/22/2016	18:17
2-Fluorophenol	**47.2**	14.2 - 89.8		2/22/2016	18:17
Nitrobenzene-d5	**47.9**	11.6 - 83.3		2/22/2016	18:17
Phenol-d5	**54.3**	19.4 - 102		2/22/2016	18:17
Terphenyl-d14	**72.3**	60.4 - 114		2/22/2016	18:17

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 2/22/2016
Data File: B10293.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #3(R3.1,R3.2,R3.3)		
Lab Sample ID:	160673-16	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.597	mg/Kg		2/24/2016

Method Reference(s): EPA 9014
Preparation Date: 2/24/2016

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Report Prepared Thursday, February 25, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #4(R3.4,R3.5,R3.6)		
Lab Sample ID:	160673-17	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**3.96**	mg/Kg		2/19/2016 14:36
Barium	**46.7**	mg/Kg		2/19/2016 14:36
Beryllium	**0.318**	mg/Kg		2/19/2016 14:36
Cadmium	**1.89**	mg/Kg		2/19/2016 14:36
Chromium	**17.4**	mg/Kg		2/19/2016 14:36
Copper	**65.4**	mg/Kg		2/19/2016 14:36
Lead	**128**	mg/Kg		2/19/2016 14:36
Manganese	**302**	mg/Kg		2/19/2016 14:36
Nickel	**16.4**	mg/Kg		2/19/2016 14:36
Selenium	**1.44**	mg/Kg		2/19/2016 14:36
Silver	**0.527**	mg/Kg	J	2/19/2016 14:36
Zinc	**219**	mg/Kg		2/19/2016 14:36

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 2/17/2016
Data File: 021916b

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #4(R3.4,R3.5,R3.6)		
Lab Sample ID:	160673-17	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.142**	mg/Kg		2/19/2016 12:40

Method Reference(s): EPA 7471B
Preparation Date: 2/18/2016
Data File: Hg160219A

Report Prepared Thursday, February 25, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #4(R3.4,R3.5,R3.6)		
Lab Sample ID:	160673-17	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.178	mg/Kg		2/24/2016 18:30
PCB-1221	< 0.178	mg/Kg		2/24/2016 18:30
PCB-1232	< 0.178	mg/Kg		2/24/2016 18:30
PCB-1242	< 0.178	mg/Kg		2/24/2016 18:30
PCB-1248	< 0.178	mg/Kg		2/24/2016 18:30
PCB-1254	**0.872**	mg/Kg		2/24/2016 18:30
PCB-1260	< 0.178	mg/Kg		2/24/2016 18:30
PCB-1262	< 0.178	mg/Kg		2/24/2016 18:30
PCB-1268	< 0.178	mg/Kg		2/24/2016 18:30

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**465**	17.6 - 142	*	2/24/2016 18:30
Tetrachloro-m-xylene	**112**	0 - 152		2/24/2016 18:30

Method Reference(s): EPA 8082A
EPA 3550C

Preparation Date: 2/23/2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #4(R3.4,R3.5,R3.6)		
Lab Sample ID:	160673-17	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 357	ug/Kg		2/22/2016 18:46
1,2,4,5-Tetrachlorobenzene	< 357	ug/Kg		2/22/2016 18:46
1,2,4-Trichlorobenzene	< 357	ug/Kg		2/22/2016 18:46
1,2-Dichlorobenzene	< 357	ug/Kg		2/22/2016 18:46
1,3-Dichlorobenzene	< 357	ug/Kg		2/22/2016 18:46
1,4-Dichlorobenzene	< 357	ug/Kg		2/22/2016 18:46
2,3,4,6-Tetrachlorophenol	< 357	ug/Kg		2/22/2016 18:46
2,4,5-Trichlorophenol	< 714	ug/Kg		2/22/2016 18:46
2,4,6-Trichlorophenol	< 357	ug/Kg		2/22/2016 18:46
2,4-Dichlorophenol	< 357	ug/Kg		2/22/2016 18:46
2,4-Dimethylphenol	< 357	ug/Kg		2/22/2016 18:46
2,4-Dinitrophenol	< 714	ug/Kg		2/22/2016 18:46
2,4-Dinitrotoluene	< 357	ug/Kg		2/22/2016 18:46
2,6-Dinitrotoluene	< 357	ug/Kg		2/22/2016 18:46
2-Chloronaphthalene	< 357	ug/Kg		2/22/2016 18:46
2-Chlorophenol	< 357	ug/Kg		2/22/2016 18:46
2-Methylnapthalene	< 357	ug/Kg		2/22/2016 18:46
2-Methylphenol	< 357	ug/Kg		2/22/2016 18:46
2-Nitroaniline	< 714	ug/Kg		2/22/2016 18:46
2-Nitrophenol	< 357	ug/Kg		2/22/2016 18:46
3&4-Methylphenol	< 357	ug/Kg		2/22/2016 18:46
3,3'-Dichlorobenzidine	< 357	ug/Kg		2/22/2016 18:46
3-Nitroaniline	< 714	ug/Kg		2/22/2016 18:46
4,6-Dinitro-2-methylphenol	< 714	ug/Kg		2/22/2016 18:46
4-Bromophenyl phenyl ether	< 357	ug/Kg		2/22/2016 18:46
4-Chloro-3-methylphenol	< 357	ug/Kg		2/22/2016 18:46
4-Chloroaniline	< 357	ug/Kg		2/22/2016 18:46

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #4(R3.4,R3.5,R3.6)		
Lab Sample ID:	160673-17	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

4-Chlorophenyl phenyl ether	< 357	ug/Kg			2/22/2016	18:46
4-Nitroaniline	< 714	ug/Kg			2/22/2016	18:46
4-Nitrophenol	< 714	ug/Kg			2/22/2016	18:46
Acenaphthene	< 357	ug/Kg			2/22/2016	18:46
Acenaphthylene	< 357	ug/Kg			2/22/2016	18:46
Acetophenone	< 357	ug/Kg			2/22/2016	18:46
Anthracene	< 357	ug/Kg			2/22/2016	18:46
Atrazine	< 357	ug/Kg			2/22/2016	18:46
Benzaldehyde	< 357	ug/Kg			2/22/2016	18:46
Benzo (a) anthracene	**465**	ug/Kg			2/22/2016	18:46
Benzo (a) pyrene	**430**	ug/Kg			2/22/2016	18:46
Benzo (b) fluoranthene	**464**	ug/Kg			2/22/2016	18:46
Benzo (g,h,i) perylene	**327**	ug/Kg		J	2/22/2016	18:46
Benzo (k) fluoranthene	**387**	ug/Kg			2/22/2016	18:46
Bis (2-chloroethoxy) methane	< 357	ug/Kg			2/22/2016	18:46
Bis (2-chloroethyl) ether	< 357	ug/Kg			2/22/2016	18:46
Bis (2-chloroisopropyl) ether	< 357	ug/Kg			2/22/2016	18:46
Bis (2-ethylhexyl) phthalate	< 357	ug/Kg			2/22/2016	18:46
Butylbenzylphthalate	< 357	ug/Kg			2/22/2016	18:46
Caprolactam	< 357	ug/Kg			2/22/2016	18:46
Carbazole	< 357	ug/Kg			2/22/2016	18:46
Chrysene	**492**	ug/Kg			2/22/2016	18:46
Dibenz (a,h) anthracene	< 357	ug/Kg			2/22/2016	18:46
Dibenzofuran	< 357	ug/Kg			2/22/2016	18:46
Diethyl phthalate	< 357	ug/Kg			2/22/2016	18:46
Dimethyl phthalate	< 714	ug/Kg			2/22/2016	18:46
Di-n-butyl phthalate	< 357	ug/Kg			2/22/2016	18:46
Di-n-octylphthalate	< 357	ug/Kg			2/22/2016	18:46
Fluoranthene	**918**	ug/Kg			2/22/2016	18:46
Fluorene	< 357	ug/Kg			2/22/2016	18:46

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier: Composite #4(R3.4,R3.5,R3.6)
Lab Sample ID: 160673-17 **Date Sampled:** 2/12/2016
Matrix: Soil **Date Received:** 2/12/2016

Hexachlorobenzene	< 357	ug/Kg	2/22/2016	18:46
Hexachlorobutadiene	< 357	ug/Kg	2/22/2016	18:46
Hexachlorocyclopentadiene	< 357	ug/Kg	2/22/2016	18:46
Hexachloroethane	< 357	ug/Kg	2/22/2016	18:46
Indeno (1,2,3-cd) pyrene	**423**	ug/Kg	2/22/2016	18:46
Isophorone	< 357	ug/Kg	2/22/2016	18:46
Naphthalene	< 357	ug/Kg	2/22/2016	18:46
Nitrobenzene	< 357	ug/Kg	2/22/2016	18:46
N-Nitroso-di-n-propylamine	< 357	ug/Kg	2/22/2016	18:46
N-Nitrosodiphenylamine	< 357	ug/Kg	2/22/2016	18:46
Pentachlorophenol	< 714	ug/Kg	2/22/2016	18:46
Phenanthrene	**436**	ug/Kg	2/22/2016	18:46
Phenol	< 357	ug/Kg	2/22/2016	18:46
Pyrene	**817**	ug/Kg	2/22/2016	18:46

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**71.3**	36.2 - 107		2/22/2016	18:46
2-Fluorobiphenyl	**58.3**	22 - 96.1		2/22/2016	18:46
2-Fluorophenol	**53.5**	14.2 - 89.8		2/22/2016	18:46
Nitrobenzene-d5	**53.4**	11.6 - 83.3		2/22/2016	18:46
Phenol-d5	**56.3**	19.4 - 102		2/22/2016	18:46
Terphenyl-d14	**72.0**	60.4 - 114		2/22/2016	18:46

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 2/22/2016
Data File: B10294.D

Report Prepared Thursday, February 25, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #4(R3.4,R3.5,R3.6)		
Lab Sample ID:	160673-17	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.421	mg/Kg		2/24/2016

Method Reference(s): EPA 9014
Preparation Date: 2/24/2016

Report Prepared Thursday, February 25, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #5(R6.1,R6.2,R6.3)		
Lab Sample ID:	160673-18	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**3.16**	mg/Kg		2/19/2016 14:41
Barium	**96.5**	mg/Kg		2/19/2016 14:41
Beryllium	**0.274**	mg/Kg		2/19/2016 14:41
Cadmium	**4.04**	mg/Kg		2/19/2016 14:41
Chromium	**36.7**	mg/Kg		2/19/2016 14:41
Copper	**59.4**	mg/Kg	D	2/19/2016 14:41
Lead	**195**	mg/Kg	M	2/19/2016 14:41
Manganese	**326**	mg/Kg	M	2/19/2016 14:41
Nickel	**17.5**	mg/Kg		2/19/2016 14:41
Selenium	**0.518**	mg/Kg	J	2/19/2016 14:41
Silver	**0.693**	mg/Kg		2/19/2016 14:41
Zinc	**290**	mg/Kg	DM	2/19/2016 14:41

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 2/17/2016
Data File: 021916b

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #5(R6.1,R6.2,R6.3)		
Lab Sample ID:	160673-18	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.123**	mg/Kg	M	2/19/2016 12:43

Method Reference(s): EPA 7471B
Preparation Date: 2/18/2016
Data File: Hg160219A

Report Prepared Thursday, February 25, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #5(R6.1,R6.2,R6.3)		
Lab Sample ID:	160673-18	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.163	mg/Kg		2/24/2016 18:53
PCB-1221	< 0.163	mg/Kg		2/24/2016 18:53
PCB-1232	< 0.163	mg/Kg		2/24/2016 18:53
PCB-1242	< 0.163	mg/Kg		2/24/2016 18:53
PCB-1248	< 0.163	mg/Kg		2/24/2016 18:53
PCB-1254	**0.887**	mg/Kg		2/24/2016 18:53
PCB-1260	< 0.163	mg/Kg		2/24/2016 18:53
PCB-1262	< 0.163	mg/Kg		2/24/2016 18:53
PCB-1268	< 0.163	mg/Kg		2/24/2016 18:53

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**186**	17.6 - 142	*	2/24/2016 18:53
Tetrachloro-m-xylene	**111**	0 - 152		2/24/2016 18:53

Method Reference(s): EPA 8082A
EPA 3550C

Preparation Date: 2/23/2016

Report Prepared Thursday, February 25, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #5(R6.1,R6.2,R6.3)		
Lab Sample ID:	160673-18	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 324	ug/Kg		2/22/2016 20:12
1,2,4,5-Tetrachlorobenzene	< 324	ug/Kg		2/22/2016 20:12
1,2,4-Trichlorobenzene	< 324	ug/Kg		2/22/2016 20:12
1,2-Dichlorobenzene	< 324	ug/Kg		2/22/2016 20:12
1,3-Dichlorobenzene	< 324	ug/Kg		2/22/2016 20:12
1,4-Dichlorobenzene	< 324	ug/Kg		2/22/2016 20:12
2,3,4,6-Tetrachlorophenol	< 324	ug/Kg		2/22/2016 20:12
2,4,5-Trichlorophenol	< 648	ug/Kg		2/22/2016 20:12
2,4,6-Trichlorophenol	< 324	ug/Kg		2/22/2016 20:12
2,4-Dichlorophenol	< 324	ug/Kg		2/22/2016 20:12
2,4-Dimethylphenol	< 324	ug/Kg		2/22/2016 20:12
2,4-Dinitrophenol	< 648	ug/Kg		2/22/2016 20:12
2,4-Dinitrotoluene	< 324	ug/Kg		2/22/2016 20:12
2,6-Dinitrotoluene	< 324	ug/Kg		2/22/2016 20:12
2-Chloronaphthalene	< 324	ug/Kg		2/22/2016 20:12
2-Chlorophenol	< 324	ug/Kg		2/22/2016 20:12
2-Methylnapthalene	< 324	ug/Kg		2/22/2016 20:12
2-Methylphenol	< 324	ug/Kg		2/22/2016 20:12
2-Nitroaniline	< 648	ug/Kg		2/22/2016 20:12
2-Nitrophenol	< 324	ug/Kg		2/22/2016 20:12
3&4-Methylphenol	< 324	ug/Kg		2/22/2016 20:12
3,3'-Dichlorobenzidine	< 324	ug/Kg		2/22/2016 20:12
3-Nitroaniline	< 648	ug/Kg		2/22/2016 20:12
4,6-Dinitro-2-methylphenol	< 648	ug/Kg		2/22/2016 20:12
4-Bromophenyl phenyl ether	< 324	ug/Kg		2/22/2016 20:12
4-Chloro-3-methylphenol	< 324	ug/Kg		2/22/2016 20:12
4-Chloroaniline	< 324	ug/Kg		2/22/2016 20:12

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #5(R6.1,R6.2,R6.3)		
Lab Sample ID:	160673-18	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

4-Chlorophenyl phenyl ether	< 324	ug/Kg		2/22/2016	20:12
4-Nitroaniline	< 648	ug/Kg		2/22/2016	20:12
4-Nitrophenol	< 648	ug/Kg		2/22/2016	20:12
Acenaphthene	**318**	ug/Kg	J	2/22/2016	20:12
Acenaphthylene	< 324	ug/Kg		2/22/2016	20:12
Acetophenone	< 324	ug/Kg		2/22/2016	20:12
Anthracene	**740**	ug/Kg		2/22/2016	20:12
Atrazine	< 324	ug/Kg		2/22/2016	20:12
Benzaldehyde	< 324	ug/Kg		2/22/2016	20:12
Benzo (a) anthracene	**1310**	ug/Kg		2/22/2016	20:12
Benzo (a) pyrene	**1230**	ug/Kg		2/22/2016	20:12
Benzo (b) fluoranthene	**1570**	ug/Kg		2/22/2016	20:12
Benzo (g,h,i) perylene	**808**	ug/Kg		2/22/2016	20:12
Benzo (k) fluoranthene	**852**	ug/Kg		2/22/2016	20:12
Bis (2-chloroethoxy) methane	< 324	ug/Kg		2/22/2016	20:12
Bis (2-chloroethyl) ether	< 324	ug/Kg		2/22/2016	20:12
Bis (2-chloroisopropyl) ether	< 324	ug/Kg		2/22/2016	20:12
Bis (2-ethylhexyl) phthalate	< 324	ug/Kg		2/22/2016	20:12
Butylbenzylphthalate	< 324	ug/Kg		2/22/2016	20:12
Caprolactam	< 324	ug/Kg		2/22/2016	20:12
Carbazole	**239**	ug/Kg	J	2/22/2016	20:12
Chrysene	**1550**	ug/Kg		2/22/2016	20:12
Dibenz (a,h) anthracene	**294**	ug/Kg	J	2/22/2016	20:12
Dibenzofuran	**281**	ug/Kg	J	2/22/2016	20:12
Diethyl phthalate	< 324	ug/Kg		2/22/2016	20:12
Dimethyl phthalate	< 648	ug/Kg		2/22/2016	20:12
Di-n-butyl phthalate	< 324	ug/Kg		2/22/2016	20:12
Di-n-octylphthalate	< 324	ug/Kg		2/22/2016	20:12
Fluoranthene	**3410**	ug/Kg		2/22/2016	20:12
Fluorene	**360**	ug/Kg		2/22/2016	20:12

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier: Composite #5(R6.1,R6.2,R6.3)
Lab Sample ID: 160673-18 **Date Sampled:** 2/12/2016
Matrix: Soil **Date Received:** 2/12/2016

Hexachlorobenzene	< 324	ug/Kg	2/22/2016	20:12
Hexachlorobutadiene	< 324	ug/Kg	2/22/2016	20:12
Hexachlorocyclopentadiene	< 324	ug/Kg	2/22/2016	20:12
Hexachloroethane	< 324	ug/Kg	2/22/2016	20:12
Indeno (1,2,3-cd) pyrene	**1140**	ug/Kg	2/22/2016	20:12
Isophorone	< 324	ug/Kg	2/22/2016	20:12
Naphthalene	< 324	ug/Kg	2/22/2016	20:12
Nitrobenzene	< 324	ug/Kg	2/22/2016	20:12
N-Nitroso-di-n-propylamine	< 324	ug/Kg	2/22/2016	20:12
N-Nitrosodiphenylamine	< 324	ug/Kg	2/22/2016	20:12
Pentachlorophenol	< 648	ug/Kg	2/22/2016	20:12
Phenanthrene	**3390**	ug/Kg	2/22/2016	20:12
Phenol	< 324	ug/Kg	2/22/2016	20:12
Pyrene	**2590**	ug/Kg	2/22/2016	20:12

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**73.5**	36.2 - 107		2/22/2016	20:12
2-Fluorobiphenyl	**53.7**	22 - 96.1		2/22/2016	20:12
2-Fluorophenol	**45.3**	14.2 - 89.8		2/22/2016	20:12
Nitrobenzene-d5	**47.1**	11.6 - 83.3		2/22/2016	20:12
Phenol-d5	**49.4**	19.4 - 102		2/22/2016	20:12
Terphenyl-d14	**75.8**	60.4 - 114		2/22/2016	20:12

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 2/22/2016
Data File: B10297.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160673

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 1440 Empire Blvd

Sample Identifier:	Composite #5(R6.1,R6.2,R6.3)		
Lab Sample ID:	160673-18	**Date Sampled:**	2/12/2016
Matrix:	Soil	**Date Received:**	2/12/2016

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.556	mg/Kg		2/24/2016

Method Reference(s): EPA 9014
Preparation Date: 2/24/2016

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, February 25, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term, or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.

Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

~~2 of 2~~ eem 2/12/16
1 of 3

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:	INVOICE TO:	
CLIENT: RAVI	CLIENT:	LAB PROJECT ID: 166673
ADDRESS:	ADDRESS:	
CITY: STATE: ZIP:	CITY: STATE: ZIP:	Quotation #:
PHONE: 585-697-2071	PHONE:	Email: LZICARI@ravieng.com
ATTN: Lynn ZiCARI	ATTN:	

PROJECT REFERENCE

1440 Empire Blvd (1 of 2)

Matrix Codes:

AQ - Aqueous Liquid **NQ** - Non-Aqueous Liquid **WA** - Water **WG** - Groundwater **DW** - Drinking Water **WW** - Wastewater **SO** - Soil **SL** - Sludge **SD** - Solid **PT** - Paint **WP** - Wipe **CK** - Caulk **OL** - Oil **AR** - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL/CPSI VOA	TCL/CPSI SVOA	Pest	Sylvex	PCBs	Part 375 metals	Cr+6	TCN			REMARKS	PARADIGM LAB SAMPLE NUMBER
1	2/12/16			X	R-1.1	So	1	X										Composite #1 R1.1, R1.2 R1.3	01
2					R-1.2			X											02
3					R-1.3			X											03
4					R-2.1			X										Composite #2 R2.1, R-2.2 R-2.3	04
5					R-2.2			X											05
6					R-2.3			X											06
7					R-3.1			X										Composite #3 R3.1, R3.2 R-3.3	07
8					R-3.2			X											08
9					R-3.3			X											09
10					R-3.4			X											10

VOAs as discrete only

Turnaround Time	Report Supplements	
Availability contingent upon lab approval; additional fees may apply.		
Standard 5 day ☐	Batch QC ☐	Basic EDD ☐
Rush 3 day ☐	Category A ☐	NYSDEC EDD ☒
Rush 2 day ☐	Category B ☒	
Rush 1 day ☐		
Other ☐ please indicate: 10 Day	Other ☐ please indicate:	Other EDD ☐ please indicate:

Lynn ZiCARI	2/12/16	Total Cost:
Sampled By	Date/Time	
Lynn Zicari	2/12/16	
Relinquished By	Date/Time	
	2/12/16 15:10	P.I.F.
Received By	Date/Time	
Molly Wall	2/12/16 1634	
Received @ Lab By	Date/Time	

4°C iced 2/12/16 15:23

Custody Seal N/A, Samples delivered by client, GP 2/12/16

2063

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:			INVOICE TO:			
CLIENT: RAVI			CLIENT:			LAB PROJECT ID: 1601673
ADDRESS:			ADDRESS:			Quotation #:
CITY:	STATE:	ZIP:	CITY:	STATE:	ZIP:	
PHONE: 585-697-2071			PHONE:			Email: LZICARI@RAVIENG.COM
ATTN: Lynn Zicari			ATTN:			

PROJECT REFERENCE
1440 Empire Blvd (2 of 2)

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL/CPSI VOA	TCL SVOA	Pest	Silver	PCBs	Part 375 Metals	Cr+6	TCN	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	2/12/16			X	R-3.5	SO	1	X								Composite #4 R-3.4, R3.5, R-3.6	1 1
2					R-3.6			X									1 2
3					R-6.1			X								Composite #5 R-6.1, R-6.2, R.63	1 3
4					R-6.2			X									
5					R-6.3			X									
6					Composite #1		3		X	X	X	X	X	X	X		1 4
7					Composite #2				X	X	X	X	X	X	X		1 5
8					Composite #3				X	X	X	X	X	X	X		1 6
9					Composite #4				X	X	X	X	X	X	X		1 7
10					Composite #5				X	X	X	X	X	X	X		1 8

NO (2) VOA

See notes for Composites

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Other please indicate: 10 Day	☐	Other please indicate:	☐	Other EDD please indicate:	☐

Sampled By: Lynn Zicari	Date/Time: 2/12/16	Total Cost:
Relinquished By:	Date/Time: 2/12/16	
Received By:	Date/Time: 2/12/16, 15:10	P.I.F.
Received @ Lab By: Molly Wall	Date/Time: 2/12/16 1634	

Chain of Custody Supplement

Client: Ravi **Completed by:** molly kail

Lab Project ID: 160673 **Date:** 2/12/16

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

NELAC compliance with the sample condition requirements upon receipt

Condition	Yes	No	N/A
Container Type	X	5035	
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		X met
Comments	4°C iced 2/12/16 15-23 custody seals NA samples delivered by client		
Sufficient Sample Quantity	X		
Comments			

ANALYTICAL REPORT

Lab Number:	L1604054
Client:	Paradigm Environmental Services 179 Lake Avenue Rochester, NY 14608
ATTN:	Kate Hansen
Phone:	(585) 647-2530
Project Name:	160673
Project Number:	160673
Report Date:	02/22/16

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

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

Project Name: 160673
Project Number: 160673

Lab Number: L1604054
Report Date: 02/22/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1604054-01	160673-14 COMP #1 (R1.1,R1.2,R1.3)	SOIL	Not Specified	02/12/16 00:00	02/15/16
L1604054-02	160673-15 COMP #2 (R2.1,R2.2,R2.3)	SOIL	Not Specified	02/12/16 00:00	02/15/16
L1604054-03	160673-16 COMP #3 (R3.1,R3.2,R3.3)	SOIL	Not Specified	02/12/16 00:00	02/15/16
L1604054-04	160673-17 COMP #4 (R3.4,R3.5,R3.6)	SOIL	Not Specified	02/12/16 00:00	02/15/16
L1604054-05	160673-18 COMP #5 (R6.1,R6.2,R6.3)	SOIL	Not Specified	02/12/16 00:00	02/15/16

Project Name: 160673
Project Number: 160673

Lab Number: L1604054
Report Date: 02/22/16

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet 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:	160673	**Lab Number:**	L1604054
Project Number:	160673	**Report Date:**	02/22/16

Case Narrative (continued)

Report Submission

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

Chromium, Hexavalent

The WG866851-6 Soluble MS recovery (67%), performed on L1604054-05, was outside the acceptance criteria. This has been attributed to matrix interference. A post-spike was performed with a recovery of 92%.

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: 02/22/16

ORGANICS

PESTICIDES

Project Name: 160673 **Lab Number:** L1604054

Project Number: 160673 **Report Date:** 02/22/16

SAMPLE RESULTS

Lab ID: L1604054-01
Client ID: 160673-14 COMP #1 (R1.1,R1.2,R1.3)
Sample Location: Not Specified
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/21/16 21:23
Analyst: SS
Percent Solids: 84%

Date Collected: 02/12/16 00:00
Date Received: 02/15/16
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/19/16 09:50
Cleanup Method: EPA 3620B
Cleanup Date: 02/21/16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.83	0.359	1	A
Lindane	ND		ug/kg	0.763	0.341	1	A
Alpha-BHC	ND		ug/kg	0.763	0.217	1	A
Beta-BHC	ND		ug/kg	1.83	0.694	1	A
Heptachlor	ND		ug/kg	0.916	0.411	1	A
Aldrin	ND		ug/kg	1.83	0.645	1	A
Heptachlor epoxide	23.3	PI	ug/kg	3.43	1.03	1	A
Endrin	ND		ug/kg	0.763	0.313	1	A
Endrin aldehyde	ND		ug/kg	2.29	0.801	1	A
Endrin ketone	ND		ug/kg	1.83	0.472	1	A
Dieldrin	47.5	PI	ug/kg	1.14	0.572	1	B
4,4'-DDE	15.8	PI	ug/kg	1.83	0.424	1	B
4,4'-DDD	11.0	PI	ug/kg	1.83	0.653	1	B
4,4'-DDT	ND		ug/kg	3.43	1.47	1	A
Endosulfan I	ND		ug/kg	1.83	0.433	1	A
Endosulfan II	ND		ug/kg	1.83	0.612	1	A
Endosulfan sulfate	ND		ug/kg	0.763	0.363	1	A
Methoxychlor	ND		ug/kg	3.43	1.07	1	A
Toxaphene	ND		ug/kg	34.3	9.62	1	A
cis-Chlordane	14.2		ug/kg	2.29	0.638	1	B
trans-Chlordane	10.7	PI	ug/kg	2.29	0.604	1	A
Chlordane	116	PI	ug/kg	14.9	6.07	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	108		30-150	B
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	115		30-150	A

Project Name: 160673 **Lab Number:** L1604054

Project Number: 160673 **Report Date:** 02/22/16

SAMPLE RESULTS

Lab ID:	L1604054-01	Date Collected:	02/12/16 00:00
Client ID:	160673-14 COMP #1 (R1.1,R1.2,R1.3)	Date Received:	02/15/16
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 8151A
Analytical Method:	1,8151A	Extraction Date:	02/18/16 16:06
Analytical Date:	02/20/16 21:26		
Analyst:	EC		
Percent Solids:	84%		
Methylation Date:	02/19/16 23:33		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	196	5.21	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	111		30-150	A
DCAA	100		30-150	B

Project Name: 160673 **Lab Number:** L1604054

Project Number: 160673 **Report Date:** 02/22/16

SAMPLE RESULTS

Lab ID: L1604054-02
Client ID: 160673-15 COMP #2 (R2.1,R2.2,R2.3)
Sample Location: Not Specified
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/21/16 21:36
Analyst: SS
Percent Solids: 80%

Date Collected: 02/12/16 00:00
Date Received: 02/15/16
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/19/16 09:50
Cleanup Method: EPA 3620B
Cleanup Date: 02/21/16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.00	0.393	1	A
Lindane	ND		ug/kg	0.835	0.373	1	A
Alpha-BHC	ND		ug/kg	0.835	0.237	1	A
Beta-BHC	ND		ug/kg	2.00	0.760	1	A
Heptachlor	8.13	PI	ug/kg	1.00	0.449	1	B
Aldrin	ND		ug/kg	2.00	0.706	1	A
Heptachlor epoxide	6.93	PI	ug/kg	3.76	1.13	1	A
Endrin	ND		ug/kg	0.835	0.342	1	A
Endrin aldehyde	ND		ug/kg	2.51	0.877	1	A
Endrin ketone	ND		ug/kg	2.00	0.516	1	A
Dieldrin	4.34	PI	ug/kg	1.25	0.626	1	B
4,4'-DDE	13.1	PI	ug/kg	2.00	0.464	1	B
4,4'-DDD	13.3	PI	ug/kg	2.00	0.715	1	B
4,4'-DDT	ND		ug/kg	3.76	1.61	1	A
Endosulfan I	ND		ug/kg	2.00	0.474	1	A
Endosulfan II	ND		ug/kg	2.00	0.670	1	A
Endosulfan sulfate	ND		ug/kg	0.835	0.398	1	A
Methoxychlor	ND		ug/kg	3.76	1.17	1	A
Toxaphene	ND		ug/kg	37.6	10.5	1	A
cis-Chlordane	11.0		ug/kg	2.51	0.698	1	A
trans-Chlordane	9.48	PI	ug/kg	2.51	0.662	1	A
Chlordane	72.7	PI	ug/kg	16.3	6.64	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	84		30-150	B
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	105		30-150	A

Project Name: 160673 **Lab Number:** L1604054

Project Number: 160673 **Report Date:** 02/22/16

SAMPLE RESULTS

Lab ID:	L1604054-02	Date Collected:	02/12/16 00:00
Client ID:	160673-15 COMP #2 (R2.1,R2.2,R2.3)	Date Received:	02/15/16
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 8151A
Analytical Method:	1,8151A	Extraction Date:	02/18/16 16:06
Analytical Date:	02/20/16 21:45		
Analyst:	EC		
Percent Solids:	80%		
Methylation Date:	02/19/16 23:33		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	209	5.55	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	110		30-150	A
DCAA	112		30-150	B

Project Name: 160673 **Lab Number:** L1604054

Project Number: 160673 **Report Date:** 02/22/16

SAMPLE RESULTS

Lab ID: L1604054-03
Client ID: 160673-16 COMP #3 (R3.1,R3.2,R3.3)
Sample Location: Not Specified
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/21/16 21:49
Analyst: SS
Percent Solids: 82%

Date Collected: 02/12/16 00:00
Date Received: 02/15/16
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/19/16 09:50
Cleanup Method: EPA 3620B
Cleanup Date: 02/21/16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.92	0.376	1	A
Lindane	ND		ug/kg	0.800	0.357	1	A
Alpha-BHC	ND		ug/kg	0.800	0.227	1	A
Beta-BHC	ND		ug/kg	1.92	0.728	1	A
Heptachlor	ND		ug/kg	0.960	0.430	1	A
Aldrin	36.8		ug/kg	1.92	0.676	1	B
Heptachlor epoxide	94.8	PI	ug/kg	3.60	1.08	1	A
Endrin	ND		ug/kg	0.800	0.328	1	A
Endrin aldehyde	45.1		ug/kg	2.40	0.840	1	B
Endrin ketone	ND		ug/kg	1.92	0.494	1	A
Dieldrin	71.3	PI	ug/kg	1.20	0.600	1	B
4,4'-DDE	ND		ug/kg	1.92	0.444	1	A
4,4'-DDD	ND		ug/kg	1.92	0.684	1	A
4,4'-DDT	ND		ug/kg	3.60	1.54	1	A
Endosulfan I	ND		ug/kg	1.92	0.453	1	A
Endosulfan II	ND		ug/kg	1.92	0.641	1	A
Endosulfan sulfate	ND		ug/kg	0.800	0.381	1	A
Methoxychlor	ND		ug/kg	3.60	1.12	1	A
Toxaphene	ND		ug/kg	36.0	10.1	1	A
cis-Chlordane	ND		ug/kg	2.40	0.668	1	A
trans-Chlordane	ND		ug/kg	2.40	0.633	1	A
Chlordane	ND		ug/kg	15.6	6.36	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	92		30-150	B
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	79		30-150	A

Project Name: 160673 **Lab Number:** L1604054

Project Number: 160673 **Report Date:** 02/22/16

SAMPLE RESULTS

Lab ID:	L1604054-03	Date Collected:	02/12/16 00:00
Client ID:	160673-16 COMP #3 (R3.1,R3.2,R3.3)	Date Received:	02/15/16
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 8151A
Analytical Method:	1,8151A	Extraction Date:	02/18/16 16:06
Analytical Date:	02/20/16 22:25		
Analyst:	EC		
Percent Solids:	82%		
Methylation Date:	02/19/16 23:33		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	197	5.24	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	109		30-150	A
DCAA	104		30-150	B

Project Name: 160673 **Lab Number:** L1604054

Project Number: 160673 **Report Date:** 02/22/16

SAMPLE RESULTS

Lab ID: L1604054-04
Client ID: 160673-17 COMP #4 (R3.4,R3.5,R3.6)
Sample Location: Not Specified
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/21/16 22:02
Analyst: SS
Percent Solids: 85%

Date Collected: 02/12/16 00:00
Date Received: 02/15/16
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/19/16 09:50
Cleanup Method: EPA 3620B
Cleanup Date: 02/21/16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.81	0.355	1	A
Lindane	ND		ug/kg	0.755	0.338	1	A
Alpha-BHC	ND		ug/kg	0.755	0.214	1	A
Beta-BHC	ND		ug/kg	1.81	0.687	1	A
Heptachlor	ND		ug/kg	0.906	0.406	1	A
Aldrin	ND		ug/kg	1.81	0.638	1	A
Heptachlor epoxide	8.85	PI	ug/kg	3.40	1.02	1	A
Endrin	ND		ug/kg	0.755	0.310	1	A
Endrin aldehyde	3.28	PI	ug/kg	2.27	0.793	1	A
Endrin ketone	ND		ug/kg	1.81	0.467	1	A
Dieldrin	9.31	PI	ug/kg	1.13	0.566	1	B
4,4'-DDE	4.66	PI	ug/kg	1.81	0.419	1	B
4,4'-DDD	ND		ug/kg	1.81	0.646	1	A
4,4'-DDT	ND		ug/kg	3.40	1.46	1	A
Endosulfan I	ND		ug/kg	1.81	0.428	1	A
Endosulfan II	ND		ug/kg	1.81	0.606	1	A
Endosulfan sulfate	ND		ug/kg	0.755	0.360	1	A
Methoxychlor	ND		ug/kg	3.40	1.06	1	A
Toxaphene	ND		ug/kg	34.0	9.52	1	A
cis-Chlordane	3.89	PI	ug/kg	2.27	0.631	1	B
trans-Chlordane	4.01	PI	ug/kg	2.27	0.598	1	A
Chlordane	41.4	PI	ug/kg	14.7	6.00	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	104		30-150	B
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	88		30-150	A

Project Name: 160673 **Lab Number:** L1604054

Project Number: 160673 **Report Date:** 02/22/16

SAMPLE RESULTS

Lab ID:	L1604054-04	Date Collected:	02/12/16 00:00
Client ID:	160673-17 COMP #4 (R3.4,R3.5,R3.6)	Date Received:	02/15/16
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 8151A
Analytical Method:	1,8151A	Extraction Date:	02/18/16 16:06
Analytical Date:	02/20/16 22:44		
Analyst:	EC		
Percent Solids:	85%		
Methylation Date:	02/19/16 23:33		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	193	5.14	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	105		30-150	A
DCAA	103		30-150	B

Project Name: 160673 **Lab Number:** L1604054

Project Number: 160673 **Report Date:** 02/22/16

SAMPLE RESULTS

Lab ID: L1604054-05
Client ID: 160673-18 COMP #5 (R6.1,R6.2,R6.3)
Sample Location: Not Specified
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/21/16 22:15
Analyst: SS
Percent Solids: 86%

Date Collected: 02/12/16 00:00
Date Received: 02/15/16
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/19/16 09:50
Cleanup Method: EPA 3620B
Cleanup Date: 02/21/16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.83	0.358	1	A
Lindane	ND		ug/kg	0.761	0.340	1	A
Alpha-BHC	ND		ug/kg	0.761	0.216	1	A
Beta-BHC	ND		ug/kg	1.83	0.693	1	A
Heptachlor	ND		ug/kg	0.914	0.410	1	A
Aldrin	ND		ug/kg	1.83	0.643	1	A
Heptachlor epoxide	ND		ug/kg	3.42	1.03	1	A
Endrin	ND		ug/kg	0.761	0.312	1	A
Endrin aldehyde	ND		ug/kg	2.28	0.799	1	A
Endrin ketone	ND		ug/kg	1.83	0.470	1	A
Dieldrin	ND		ug/kg	1.14	0.571	1	A
4,4'-DDE	ND		ug/kg	1.83	0.422	1	A
4,4'-DDD	ND		ug/kg	1.83	0.652	1	A
4,4'-DDT	ND		ug/kg	3.42	1.47	1	A
Endosulfan I	ND		ug/kg	1.83	0.432	1	A
Endosulfan II	ND		ug/kg	1.83	0.610	1	A
Endosulfan sulfate	ND		ug/kg	0.761	0.362	1	A
Methoxychlor	ND		ug/kg	3.42	1.06	1	A
Toxaphene	ND		ug/kg	34.2	9.59	1	A
cis-Chlordane	ND		ug/kg	2.28	0.636	1	A
trans-Chlordane	ND		ug/kg	2.28	0.603	1	A
Chlordane	ND		ug/kg	14.8	6.05	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	102		30-150	B
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	74		30-150	A

Project Name: 160673 **Lab Number:** L1604054

Project Number: 160673 **Report Date:** 02/22/16

SAMPLE RESULTS

Lab ID:	L1604054-05	Date Collected:	02/12/16 00:00
Client ID:	160673-18 COMP #5 (R6.1,R6.2,R6.3)	Date Received:	02/15/16
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 8151A
Analytical Method:	1,8151A	Extraction Date:	02/18/16 16:06
Analytical Date:	02/20/16 23:04		
Analyst:	EC		
Percent Solids:	86%		
Methylation Date:	02/19/16 23:33		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	191	5.08	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	96		30-150	A
DCAA	101		30-150	B

Project Name: 160673 **Lab Number:** L1604054

Project Number: 160673 **Report Date:** 02/22/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 02/20/16 20:27
Analyst: EC

Extraction Method: EPA 8151A
Extraction Date: 02/18/16 16:06

Methylation Date: 02/19/16 23:33

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-05 Batch: WG866426-1						
2,4,5-TP (Silvex)	ND		ug/kg	164	4.36	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	88		30-150	A
DCAA	116		30-150	B

Project Name: 160673
Project Number: 160673

Lab Number: L1604054
Report Date: 02/22/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 02/21/16 19:26
Analyst: SS

Extraction Method: EPA 3546
Extraction Date: 02/19/16 09:50
Cleanup Method: EPA 3620B
Cleanup Date: 02/21/16

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05 Batch: WG866669-1						
Delta-BHC	ND		ug/kg	1.51	0.296	A
Lindane	ND		ug/kg	0.630	0.281	A
Alpha-BHC	ND		ug/kg	0.630	0.179	A
Beta-BHC	ND		ug/kg	1.51	0.573	A
Heptachlor	ND		ug/kg	0.756	0.339	A
Aldrin	ND		ug/kg	1.51	0.532	A
Heptachlor epoxide	ND		ug/kg	2.83	0.850	A
Endrin	ND		ug/kg	0.630	0.258	A
Endrin aldehyde	ND		ug/kg	1.89	0.661	A
Endrin ketone	ND		ug/kg	1.51	0.389	A
Dieldrin	ND		ug/kg	0.944	0.472	A
4,4'-DDE	ND		ug/kg	1.51	0.349	A
4,4'-DDD	ND		ug/kg	1.51	0.539	A
4,4'-DDT	ND		ug/kg	2.83	1.22	A
Endosulfan I	ND		ug/kg	1.51	0.357	A
Endosulfan II	ND		ug/kg	1.51	0.505	A
Endosulfan sulfate	ND		ug/kg	0.630	0.300	A
Methoxychlor	ND		ug/kg	2.83	0.882	A
Toxaphene	ND		ug/kg	28.3	7.93	A
cis-Chlordane	ND		ug/kg	1.89	0.526	A
trans-Chlordane	ND		ug/kg	1.89	0.499	A
Chlordane	ND		ug/kg	12.3	5.01	A

Project Name: 160673 **Lab Number:** L1604054

Project Number: 160673 **Report Date:** 02/22/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 02/21/16 19:26
Analyst: SS

Extraction Method: EPA 3546
Extraction Date: 02/19/16 09:50
Cleanup Method: EPA 3620B
Cleanup Date: 02/21/16

Parameter	Result	Qualifier	Units	RL	MDL
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05 Batch: WG866669-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	115		30-150	B
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	124		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 160673
Project Number: 160673

Lab Number: L1604054
Report Date: 02/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG866426-2 WG866426-3									
2,4-D	86		38		30-150	**77**	Q	30	A
2,4,5-T	90		38		30-150	**81**	Q	30	A
2,4,5-TP (Silvex)	98		41		30-150	**82**	Q	30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	85		40		30-150	A
DCAA	145		45		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 160673

Project Number: 160673

Lab Number: L1604054

Report Date: 02/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG866669-2 WG866669-3									
Delta-BHC	105		110		30-150	5		30	A
Lindane	101		106		30-150	5		30	A
Alpha-BHC	112		116		30-150	4		30	A
Beta-BHC	102		107		30-150	5		30	A
Heptachlor	99		103		30-150	4		30	A
Aldrin	109		115		30-150	5		30	A
Heptachlor epoxide	109		115		30-150	5		30	A
Endrin	113		120		30-150	6		30	A
Endrin aldehyde	97		84		30-150	14		30	A
Endrin ketone	115		120		30-150	4		30	A
Dieldrin	111		117		30-150	5		30	A
4,4'-DDE	115		122		30-150	6		30	A
4,4'-DDD	122		128		30-150	5		30	A
4,4'-DDT	120		130		30-150	8		30	A
Endosulfan I	110		116		30-150	5		30	A
Endosulfan II	125		130		30-150	4		30	A
Endosulfan sulfate	105		111		30-150	6		30	A
Methoxychlor	126		130		30-150	3		30	A
cis-Chlordane	112		118		30-150	5		30	A
trans-Chlordane	116		123		30-150	6		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 160673

Project Number: 160673

Lab Number: L1604054

Report Date: 02/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG866669-2 WG866669-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		88		30-150	B
Decachlorobiphenyl	127		124		30-150	B
2,4,5,6-Tetrachloro-m-xylene	89		90		30-150	A
Decachlorobiphenyl	133		134		30-150	A

INORGANICS
&
MISCELLANEOUS

Project Name: 160673
Project Number: 160673

Lab Number: L1604054
Report Date: 02/22/16

SAMPLE RESULTS

Lab ID: L1604054-01
Client ID: 160673-14 COMP #1 (R1.1,R1.2,R
Sample Location: Not Specified
Matrix: Soil

Date Collected: 02/12/16 00:00
Date Received: 02/15/16
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	84.2		%	0.100	NA	1	-	02/17/16 04:37	30,2540G	RT
Chromium, Hexavalent	ND		mg/kg	0.95	0.19	1	02/19/16 19:20	02/21/16 21:44	1,7196A	RP

Project Name: 160673
Project Number: 160673

Lab Number: L1604054
Report Date: 02/22/16

SAMPLE RESULTS

Lab ID: L1604054-02
Client ID: 160673-15 COMP #2 (R2.1,R2.2,R
Sample Location: Not Specified
Matrix: Soil

Date Collected: 02/12/16 00:00
Date Received: 02/15/16
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	-	02/17/16 04:37	30,2540G	RT
Chromium, Hexavalent	ND		mg/kg	1.0	0.20	1	02/19/16 19:20	02/21/16 21:44	1,7196A	RP

Project Name: 160673
Project Number: 160673

Lab Number: L1604054
Report Date: 02/22/16

SAMPLE RESULTS

Lab ID: L1604054-03
Client ID: 160673-16 COMP #3 (R3.1,R3.2,R
Sample Location: Not Specified
Matrix: Soil

Date Collected: 02/12/16 00:00
Date Received: 02/15/16
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	82.0		%	0.100	NA	1	-	02/17/16 04:37	30,2540G	RT
Chromium, Hexavalent	ND		mg/kg	0.98	0.20	1	02/19/16 19:20	02/21/16 21:45	1,7196A	RP

Project Name: 160673
Project Number: 160673

Lab Number: L1604054
Report Date: 02/22/16

SAMPLE RESULTS

Lab ID: L1604054-04
Client ID: 160673-17 COMP #4 (R3.4,R3.5,R
Sample Location: Not Specified
Matrix: Soil

Date Collected: 02/12/16 00:00
Date Received: 02/15/16
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	84.7		%	0.100	NA	1	-	02/17/16 04:37	30,2540G	RT
Chromium, Hexavalent	ND		mg/kg	0.94	0.19	1	02/19/16 19:20	02/21/16 21:45	1,7196A	RP

Project Name: 160673
Project Number: 160673

Lab Number: L1604054
Report Date: 02/22/16

SAMPLE RESULTS

Lab ID: L1604054-05
Client ID: 160673-18 COMP #5 (R6.1,R6.2,R
Sample Location: Not Specified
Matrix: Soil

Date Collected: 02/12/16 00:00
Date Received: 02/15/16
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	86.3		%	0.100	NA	1	-	02/17/16 04:37	30,2540G	RT
Chromium, Hexavalent	ND		mg/kg	0.93	0.18	1	02/19/16 19:20	02/21/16 21:46	1,7196A	RP

Project Name: 160673 **Lab Number:** L1604054

Project Number: 160673 **Report Date:** 02/22/16

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG866851-1										
Chromium, Hexavalent	ND		mg/kg	0.80	0.16	1	02/19/16 19:20	02/21/16 21:46	1,7196A	RP

Lab Control Sample Analysis

Batch Quality Control

Project Name: 160673

Project Number: 160673

Lab Number: L1604054

Report Date: 02/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG866851-2								
Chromium, Hexavalent	80		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 160673
Project Number: 160673

Lab Number: L1604054
Report Date: 02/22/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG866851-5 QC Sample: L1604054-05 Client ID: 160673-18 COMP #5 (R6.1,R6.2,R6.3)												
Chromium, Hexavalent	ND	1080	1000	92		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 160673
Project Number: 160673

Lab Number: L1604054
Report Date: 02/22/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG865838-1 QC Sample: L1604006-01 Client ID: DUP Sample						
Solids, Total	84.5	86.0	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG866851-4 QC Sample: L1604054-05 Client ID: 160673-18 COMP #5 (R6.1,R6.2,R6.3)						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 160673
Project Number: 160673

Lab Number: L1604054
Report Date: 02/22/16

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1604054-01A	Glass 120ml/4oz unpreserved	A	N/A	4.2	Y	Absent	HERB-APA(14),TS(7),NYTCL-8081(14),HEXCR-7196(30)
L1604054-02A	Glass 120ml/4oz unpreserved	A	N/A	4.2	Y	Absent	HERB-APA(14),TS(7),NYTCL-8081(14),HEXCR-7196(30)
L1604054-03A	Glass 120ml/4oz unpreserved	A	N/A	4.2	Y	Absent	HERB-APA(14),TS(7),NYTCL-8081(14),HEXCR-7196(30)
L1604054-04A	Glass 120ml/4oz unpreserved	A	N/A	4.2	Y	Absent	HERB-APA(14),TS(7),NYTCL-8081(14),HEXCR-7196(30)
L1604054-05A	Glass 120ml/4oz unpreserved	A	N/A	4.2	Y	Absent	HERB-APA(14),TS(7),NYTCL-8081(14),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name:	160673	**Lab Number:**	L1604054
Project Number:	160673	**Report Date:**	02/22/16

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

Report Format: DU Report with 'J' Qualifiers

Project Name:	160673	**Lab Number:**	L1604054
Project Number:	160673	**Report Date:**	02/22/16

Data Qualifiers

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

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	160673	**Lab Number:**	L1604054
Project Number:	160673	**Report Date:**	02/22/16

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

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

Westborough Facility
EPA 524.2: 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, m/p-xylene, o-xylene
EPA 624: 2-Butanone (MEK), 1,4-Dioxane, tert-Amylmethyl Ether, tert-Butyl Alcohol, m/p-xylene, o-xylene
EPA 625: Aniline, Benzoic Acid, Benzyl Alcohol, 4-Chloroaniline, 3-Methylphenol, 4-Methylphenol.
EPA 1010A: NPW: Ignitability
EPA 6010C: NPW: Strontium; SCM: Strontium
EPA 8151A: NPW: 2,4-DB, Dicamba, Dichloroprop, MCPA, MCPP; SCM: 2,4-DB, Dichloroprop, MCPA, MCPP
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene, Isopropanol; SCM: Iodomethane (methyl iodide), Methyl methacrylate (soil); 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 9010: NPW: Amenable Cyanide Distillation, Total Cyanide Distillation
EPA 9038: NPW: Sulfate
EPA 9050A: NPW: Specific Conductance
EPA 9056: NPW: Chloride, Nitrate, Sulfate
EPA 9065: NPW: Phenols
EPA 9251: NPW: Chloride
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
EPA 8270D: NPW: Biphenyl; SCM: Biphenyl, Caprolactam
EPA 8270D-SIM Isotope Dilution: SCM: 1,4-Dioxane
SM 2540D: TSS
SM2540G: SCM: Percent Solids
EPA 1631E: SCM: Mercury
EPA 7474: SCM: Mercury
EPA 8081B: NPW and SCM: Mirex, Hexachlorobenzene.
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA 8270-SIM: NPW and SCM: Alkylated PAHs.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene.
Biological Tissue Matrix: ***8270D-SIM; 3050B; 3051A; 7471B; 8081B; 8082A; 6020A:*** Lead***; 8270D:*** bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Diethyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Fluoranthene, Pentachlorophenol.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,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, SM4500Cl-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.

Serial_No:02221615:21

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L1604054

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179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES INC

REPORT TO:		INVOICE TO:			
COMPANY:	Paradigm Environmental	COMPANY:	Same	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS:	179 Lake Avenue	ADDRESS:			
CITY:	Rochester STATE: NY ZIP: 14608	CITY:	STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS)	
PHONE:	FAX:	PHONE:	FAX:	STD	OTHER
PROJECT NAME/SITE NAME:		ATTN:	Kate Hansen	ATTN: Meridith Dillman	1 2 3 X 5
		COMMENTS:	Please email results to khansen@paradigmenv.com and reporting@paradigmenv.com	Date Due: 2/23/16 for Data	

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	Hex Cr	Silvex	Pest	REMARKS	PARADIGM LAB SAMPLE NUMBER
										Rept J Flags ASP Cat B Package Due 3/7/16 SOG closed SW 846 MTS rep as Dry WT	
12/12/16				160673-14	SO,I	1	X	X	X	composite #1 (R1.1, R1.2, R1.3)	
2				15			X	X	X	#2 (R2.1, R2.2, R2.3)	
3				16			X	X	X	#3 (R3.1, R3.2, R3.3)	
4				17			X	X	X	#4 (R3.4, R3.5, R3.6)	
5				18			X	X	X	#5 (R6.1, R6.2, R6.3)	
6											
7											
8											
9											
10											

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type:	Y ☐	N ☐
Comments:		
Preservation:	Y ☐	N ☐
Comments:		
Holding Time:	Y ☐	N ☐
Comments:		
Temperature:	Y ☐	N ☐
Comments:		

Client

Sampled By	Matt Vail	Date/Time 2/15/16 1600
Relinquished By		Date/Time 2/15/16 1712
Received By		Date/Time 2-15-16
Received By		Date/Time 2/16/16 0825
Received @ Lab By		Date/Time

Total Cost:

P.I.F.