December 22, 2016

Thomas Hall
NYSDEC Region 8 Office
6274 East Avon-Lima Rd
Avon, NY 14414-9516

RE: NYSDEC Spill No. 1606422
Ben Weitsman of Rochester LLC
80 Steel Street Rochester, NY
Cleanup Approach

FILE: 6084/60307

Dear **Thomas:**

O'Brien & Gere (OBG), on behalf of Ben Weitsman of Rochester LLC (Weitsman), has developed the approach herein described to obtain closure of the NYSDEC Spill No. 1606422, associated with the facility located at 80 Steel Street in the city of Rochester, Monroe County, New York (herein referred to as Site), opened on September 28, 2016.

BACKGROUND

OBG was on Site on September 28, 2016 performing test digs to collect soil samples for disposal characterization as part of an on-going United States Environmental Protection Agency (USEPA)-approved self-implementing polychlorinated biphenyl (PCB) cleanup. While advancing a test pit with an excavator in an area outside of the delineated PCB cleanup area, a buried 55-gallon steel drum (buried drum) with secured lid was encountered in the sidewall at approximately 1.5-feet (ft) below grade surface (bgs). The side of the drum opened to the excavation had deterioration that was causing a black, oily-like substance to leak from the drum. Water was encountered in the excavation at a depth of approximately 3-ft bgs.

The buried drum was uncovered to a point of being able to access and open the steel lid. Soil around the drum was excavated and placed on poly-sheeting adjacent to the excavation. Upon opening the buried drum, a poly-lining was observed and fluid within the drum was at a level equal to the surrounding water. An attempt was made to transfer the contents(fluid) of the drum into a new 55-gallon steel drum via an electric transfer pump. Approximately 30-gallons of water was transferred to the new drum when it was determined that the level in the drum was not dropping, pumping subsequently ceased. Within the buried drum was a poly-liner containing sludge and water, the liner and the sludge it contained was removed and placed in a plastic over-pack drum.

Absorbent pads were placed on the water surface within the excavation and in the buried drum and the buried drum was covered and secured using the original lid. To limit the potential migration of the oily-like substance on the surface of the excavation water, the excavation was backfilled with the same material, re-covering the drum.

Prior to the excavation being backfilled, a composited soil sample (WC-03-0-8-092816) was collected for waste characterization purposes from the stockpile of material removed from around the buried drum. The sample was analyzed for the following:

- Flashpoint (USEPA Method 1010A)
- PCBs (USEPA Method 8082A)
- pH (USEPA Method 9045D)
- TCLP Semi-Volatile Organic Compounds (SVOCs) (USEPA Method 8270D)
- TCLP Mercury (USEPA Method 7470A)
- TCLP RCRA Metals (ICP) (USEPA Method 6010C)
- TCLP Volatile Organic Compounds (VOCs) (USEPA Method 8260C)

Laboratory Reports have been included as ***Attachment 1***.

In addition to the soil sample collected from the soils adjacent to the buried drum, a waste characterization sample was collected from the oil water mixture that had been transferred into the new steel drum. The waste oil/water will be profiled based on the analytical results and appropriately disposed of at an authorized treatment, storage, and disposal facility (TSDF).

A second 55-gallon steel drum (pond drum) was observed sitting in the existing site retention pond approximately 100 feet north of the buried drum. The drum did not have a lid and was partially submerged in the retention pond under approximately 1 foot of water and several inches of sediment and material. Upon removal of the drum a sheen was observed on the retention pond water surface in the vicinity of the drum so an absorbent boom was used for control. A sheen was not apparent until the drum was disturbed. Once the drum was set upright, the drum was observed to contain approximately 30-gallons of black material. The drum contents were sampled (Pond_Drum-1-092916) for waste characterization as identified above. The material will be profiled for disposal purposes based on the analytical results, and appropriately disposed of at an authorized TSDF. Based upon the use of the site and the condition and location of each drum, the two drums are not believed to be associated with each other. A limited investigation utilizing ground penetrating radar was conducted in the excavation area of the proposed storm water management area (SWMA) and no additional anomalies were detected that would indicate the presence of additional drums.

While excavating the SWMA 2 PVC lines were uncovered approximately 2 to 3 feet bgs. The lines contained an oil sludge. The sludge and soil immediately adjacent to the PVC lines was sampled for waste characterization. Upon review of the analytical (Lab Sample ID:165454) a determination will be made on how to dispose of the PVC lines, its contents.

CLEANUP APPROACH

As part of the self-implementing PCB cleanup, an USEPA and NYSDEC-approved cap consisting of paved asphalt and lined retention pond will cover the area of the drums. In addition, a deed restriction will be placed on the Site that, combined with the cap system, will mitigate potential exposures.

The area where the drums were encountered are located within the planned SWMA. Soil will be excavated from this area to develop the grades necessary for the installation of the SWMA liner, with varying depths from 2 to 8 ft. below current grade. This removal will extend to at least 2 ft. below and extend to at least 15 ft. horizontally from the buried drum. The excess soils from Site improvements associated with cleanup have been approved for transport and disposal at a 6 NYCRR Part 360 (Part 360)-permitted landfill located in Ontario County, New York, and operated by Casella Resource Solutions (Casella).

The water in the current retention pond, in addition to water encountered during construction, will be pumped out and contained in a storage tank for characterization prior to discharge to the Monroe County sewer system. A short term discharge permit has been obtained from Monroe County Pure Waters to discharge the water to the Monroe County sewer located on Site and written authorization from Monroe County will be received prior to discharge. The sediment at the bottom of the retention pond will also be removed as part of the Site improvements and disposed of at the Casella landfill as part of the same waste stream as the surrounding soils.

As part of the construction activities, the buried drum will also be removed, and placed in an over pack for disposal at an authorized TSDF.

The proposed excavation depth in the vicinity of the buried drum and PVC lines is approximately 2.5-ft below the bottom of the buried drum and lines. Soils at the bottom of the excavation in the vicinity of the buried drum and lines will be screened with a photo-ionization detector (PID) and results will be included as part of the spill closure report to the NYSDEC. Should elevated readings (*i.e.*, greater than 10 ppm) or visual/olfactory evidence of petroleum impacts be observed at the bottom of the proposed excavation, documentation samples of the area will be collected as outlined in NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation, issued May 2010. No additional soil sampling is planned related to the cleanup of this spill.

Upon completion of the Site improvements, a report will be submitted to the NYSDEC for approval of the spill closure. This report will include a description of the field observations and samples collected, if warranted based on the criteria described above, in addition to documentation of soil and water disposition.

OBG requests NYSDEC-approval of the cleanup approach contained herein. Should you have any questions, please do not hesitate to contact me at 315-956-6836.

Very truly yours,
O'BRIEN & GERE, INC. OF NORTH AMERICA

James Cavotta
Project Manager

cc. James Haklar-USEPA Region 2
Mike Khalil – NYSDEC Region 8
Doreen Simmons- Hancock and Estabrook
Paul Mazurkiewicz, PE – O'Brien & Gere
Doug Crawford, PE – O'Brien & Gere
Logan Reid – O'Brien & Gere

Attachments:
Attachment 1 – Laboratory Analytical Reports

\\Rochestersvr\projects\Ben-Weitsman.6084\60307.80-Steel-Street\Corres\Nov 1 2016 Spill Approach to NYSDEC\Approach to Spill

Attachment 1 –

Laboratory Analytical Reports

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

O'Brien & Gere Engineers, Inc.

For Lab Project ID

164225

Referencing

60307

Prepared

Thursday, October 06, 2016

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958 • PADEP ID# 68-02351

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.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164225

Client: O'Brien & Gere Engineers, Inc.

Project Reference: 60307

Sample Identifier: WC-01-0-8-092816, 40 ppm Headspace
Lab Sample ID: 164225-01 **Date Sampled:** 9/28/2016
Matrix: Soil **Date Received:** 9/29/2016

Flash Point

Analyte	Result	Units	Qualifier	Date Analyzed
Flash Point, Celsius	>70.0	C		10/5/2016

Method Reference(s): EPA 1010A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.363	mg/Kg		10/3/2016 03:28
PCB-1221	< 0.363	mg/Kg		10/3/2016 03:28
PCB-1232	< 0.363	mg/Kg		10/3/2016 03:28
PCB-1242	< 0.363	mg/Kg		10/3/2016 03:28
PCB-1248	< 0.363	mg/Kg		10/3/2016 03:28
PCB-1254	< 0.363	mg/Kg		10/3/2016 03:28
PCB-1260	< 0.363	mg/Kg		10/3/2016 03:28
PCB-1262	< 0.363	mg/Kg		10/3/2016 03:28
PCB-1268	< 0.363	mg/Kg		10/3/2016 03:28

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**61.1**	10 - 144		10/3/2016 03:28
Tetrachloro-m-xylene	**65.6**	10 - 140		10/3/2016 03:28

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 9/30/2016

pH

Analyte	Result	Units	Qualifier	Date Analyzed
pH	7.73 @ 24.8 C	S.U.		9/29/2016 13:15

Method Reference(s): EPA 9045D

Reactive Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Cyanide	<100	mg/Kg		10/3/2016

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164225

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 60307

Sample Identifier:	WC-01-0-8-092816, 40 ppm Headspace		
Lab Sample ID:	164225-01	**Date Sampled:**	9/28/2016
Matrix:	Soil	**Date Received:**	9/29/2016

Method Reference(s): EPA 7.3.3.2
Subcontractor ELAP ID: 11148
ELAP does not offer this test for approval as part of their laboratory certification program.

Reactive Sulfide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Sulfide	<100	mg/Kg		10/3/2016

Method Reference(s): EPA 7.3.4.2
Subcontractor ELAP ID: 11148
ELAP does not offer this test for approval as part of their laboratory certification program.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164225

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 60307

Sample Identifier: WC-01-0-8-092816, 40 ppm Headspace
Lab Sample ID: 164225-01A **Date Sampled:** 9/28/2016
Matrix: TCLP Extract **Date Received:** 9/29/2016

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		10/3/2016 18:13
2,4,5-Trichlorophenol	< 80.0	ug/L	400000		10/3/2016 18:13
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		10/3/2016 18:13
2,4-Dinitrotoluene	< 40.0	ug/L	130		10/3/2016 18:13
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000		10/3/2016 18:13
Hexachlorobenzene	< 40.0	ug/L	130		10/3/2016 18:13
Hexachlorobutadiene	< 40.0	ug/L	500		10/3/2016 18:13
Hexachloroethane	< 40.0	ug/L	3000		10/3/2016 18:13
Nitrobenzene	< 40.0	ug/L	2000		10/3/2016 18:13
Pentachlorophenol	< 80.0	ug/L	100000		10/3/2016 18:13
Pyridine	< 40.0	ug/L	5000		10/3/2016 18:13

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**94.2**	34.3 - 131		10/3/2016 18:13
2-Fluorobiphenyl	**93.9**	42.8 - 105		10/3/2016 18:13
2-Fluorophenol	**72.8**	15.8 - 97.7		10/3/2016 18:13
Nitrobenzene-d5	**84.9**	49.7 - 100		10/3/2016 18:13
Phenol-d5	**69.9**	10 - 98.9		10/3/2016 18:13
Terphenyl-d14	**94.3**	52.6 - 115		10/3/2016 18:13

Method Reference(s): EPA 8270D
EPA 1311 / 3510C
Preparation Date: 10/3/2016
Data File: B14416.D

TCLP Mercury

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Mercury	< 0.00200	mg/L	0.2		10/1/2016 15:39

Method Reference(s): EPA 7470A
EPA 1311
Preparation Date: 10/1/2016
Data File: Hg161001A

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164225

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 60307

Sample Identifier: WC-01-0-8-092816, 40 ppm Headspace
Lab Sample ID: 164225-01A **Date Sampled:** 9/28/2016
Matrix: TCLP Extract **Date Received:** 9/29/2016

TCLP RCRA Metals (ICP)

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Arsenic	< 0.100	mg/L	5		10/3/2016 17:23
Barium	**0.790**	mg/L	100		10/3/2016 17:23
Cadmium	< 0.0250	mg/L	1		10/3/2016 17:23
Chromium	< 0.0500	mg/L	5		10/3/2016 17:23
Lead	< 0.100	mg/L	5		10/3/2016 17:23
Selenium	< 0.100	mg/L	1		10/3/2016 17:23
Silver	< 0.0500	mg/L	5		10/3/2016 17:23

Method Reference(s): EPA 6010C
EPA 1311 / 3005A
Preparation Date: 9/30/2016
Data File: 100316b

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 20.0	ug/L	700		10/3/2016 21:28
1,2-Dichloroethane	< 20.0	ug/L	500		10/3/2016 21:28
2-Butanone	< 100	ug/L	200000		10/3/2016 21:28
Benzene	< 20.0	ug/L	500		10/3/2016 21:28
Carbon Tetrachloride	< 20.0	ug/L	500		10/3/2016 21:28
Chlorobenzene	< 20.0	ug/L	100000		10/3/2016 21:28
Chloroform	< 20.0	ug/L	6000		10/3/2016 21:28
Tetrachloroethene	< 20.0	ug/L	700		10/3/2016 21:28
Trichloroethene	< 20.0	ug/L	500		10/3/2016 21:28
Vinyl chloride	< 20.0	ug/L	200		10/3/2016 21:28

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164225

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 60307

Sample Identifier: WC-01-0-8-092816, 40 ppm Headspace

Lab Sample ID: 164225-01A **Date Sampled:** 9/28/2016

Matrix: TCLP Extract **Date Received:** 9/29/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**98.2**	85.8 - 116		10/3/2016 21:28
4-Bromofluorobenzene	**103**	80.6 - 114		10/3/2016 21:28
Pentafluorobenzene	**102**	89.6 - 112		10/3/2016 21:28
Toluene-D8	**108**	89.6 - 109		10/3/2016 21:28

Method Reference(s): EPA 8260C
EPA 1311 / 5030C

Data File: x35794.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164225

Client: O'Brien & Gere Engineers, Inc.

Project Reference: 60307

Sample Identifier: WC-02-0-3-092816, 17.4 ppm Headspace
Lab Sample ID: 164225-02 **Date Sampled:** 9/28/2016
Matrix: Soil **Date Received:** 9/29/2016

Flash Point

Analyte	Result	Units	Qualifier	Date Analyzed
Flash Point, Celsius	>70.0	C		10/6/2016

Method Reference(s): EPA 1010A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.370	mg/Kg		10/6/2016 09:22
PCB-1221	< 0.370	mg/Kg		10/6/2016 09:22
PCB-1232	< 0.370	mg/Kg		10/6/2016 09:22
PCB-1242	< 0.370	mg/Kg		10/6/2016 09:22
PCB-1248	< 0.370	mg/Kg		10/6/2016 09:22
PCB-1254	< 0.370	mg/Kg		10/6/2016 09:22
PCB-1260	< 0.370	mg/Kg		10/6/2016 09:22
PCB-1262	< 0.370	mg/Kg		10/6/2016 09:22
PCB-1268	< 0.370	mg/Kg		10/6/2016 09:22

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**90.4**	10 - 144		10/6/2016 09:22
Tetrachloro-m-xylene	**46.7**	10 - 140		10/6/2016 09:22

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 9/30/2016

pH

Analyte	Result	Units	Qualifier	Date Analyzed
pH	8.19 @ 24.9 C	S.U.		9/29/2016 13:15

Method Reference(s): EPA 9045D

Reactive Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Cyanide	<100	mg/Kg		10/3/2016

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164225

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 60307

Sample Identifier:	WC-02-0-3-092816, 17.4 ppm Headspace		
Lab Sample ID:	164225-02	**Date Sampled:**	9/28/2016
Matrix:	Soil	**Date Received:**	9/29/2016

Method Reference(s): EPA 7.3.3.2
Subcontractor ELAP ID: 11148
ELAP does not offer this test for approval as part of their laboratory certification program.

Reactive Sulfide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Sulfide	<100	mg/Kg		10/3/2016

Method Reference(s): EPA 7.3.4.2
Subcontractor ELAP ID: 11148
ELAP does not offer this test for approval as part of their laboratory certification program.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164225

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 60307

Sample Identifier:	WC-02-0-3-092816, 17.4 ppm Headspace		
Lab Sample ID:	164225-02A	**Date Sampled:**	9/28/2016
Matrix:	TCLP Extract	**Date Received:**	9/29/2016

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		10/3/2016 18:41
2,4,5-Trichlorophenol	< 80.0	ug/L	400000		10/3/2016 18:41
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		10/3/2016 18:41
2,4-Dinitrotoluene	< 40.0	ug/L	130		10/3/2016 18:41
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000		10/3/2016 18:41
Hexachlorobenzene	< 40.0	ug/L	130		10/3/2016 18:41
Hexachlorobutadiene	< 40.0	ug/L	500		10/3/2016 18:41
Hexachloroethane	< 40.0	ug/L	3000		10/3/2016 18:41
Nitrobenzene	< 40.0	ug/L	2000		10/3/2016 18:41
Pentachlorophenol	< 80.0	ug/L	100000		10/3/2016 18:41
Pyridine	< 40.0	ug/L	5000		10/3/2016 18:41

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**84.1**	34.3 - 131		10/3/2016 18:41
2-Fluorobiphenyl	**85.1**	42.8 - 105		10/3/2016 18:41
2-Fluorophenol	**72.5**	15.8 - 97.7		10/3/2016 18:41
Nitrobenzene-d5	**79.9**	49.7 - 100		10/3/2016 18:41
Phenol-d5	**76.9**	10 - 98.9		10/3/2016 18:41
Terphenyl-d14	**80.1**	52.6 - 115		10/3/2016 18:41

Method Reference(s): EPA 8270D
EPA 1311 / 3510C
Preparation Date: 10/3/2016
Data File: B14417.D

TCLP Mercury

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Mercury	< 0.00200	mg/L	0.2		10/1/2016 15:43

Method Reference(s): EPA 7470A
EPA 1311
Preparation Date: 10/1/2016
Data File: Hg161001A

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164225

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 60307

Sample Identifier: WC-02-0-3-092816, 17.4 ppm Headspace
Lab Sample ID: 164225-02A **Date Sampled:** 9/28/2016
Matrix: TCLP Extract **Date Received:** 9/29/2016

TCLP RCRA Metals (ICP)

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Arsenic	< 0.100	mg/L	5		10/3/2016 17:36
Barium	**1.59**	mg/L	100		10/3/2016 17:36
Cadmium	< 0.0250	mg/L	1		10/3/2016 17:36
Chromium	< 0.0500	mg/L	5		10/3/2016 17:36
Lead	**0.572**	mg/L	5		10/3/2016 17:36
Selenium	< 0.100	mg/L	1		10/3/2016 17:36
Silver	< 0.0500	mg/L	5		10/3/2016 17:36

Method Reference(s): EPA 6010C
EPA 1311 / 3005A
Preparation Date: 9/30/2016
Data File: 100316b

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 20.0	ug/L	700		10/3/2016 21:50
1,2-Dichloroethane	< 20.0	ug/L	500		10/3/2016 21:50
2-Butanone	< 100	ug/L	200000		10/3/2016 21:50
Benzene	< 20.0	ug/L	500		10/3/2016 21:50
Carbon Tetrachloride	< 20.0	ug/L	500		10/3/2016 21:50
Chlorobenzene	< 20.0	ug/L	100000		10/3/2016 21:50
Chloroform	< 20.0	ug/L	6000		10/3/2016 21:50
Tetrachloroethene	< 20.0	ug/L	700		10/3/2016 21:50
Trichloroethene	< 20.0	ug/L	500		10/3/2016 21:50
Vinyl chloride	< 20.0	ug/L	200		10/3/2016 21:50

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164225

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 60307

Sample Identifier: WC-02-0-3-092816, 17.4 ppm Headspace

Lab Sample ID: 164225-02A **Date Sampled:** 9/28/2016

Matrix: TCLP Extract **Date Received:** 9/29/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**96.5**	85.8 - 116		10/3/2016 21:50
4-Bromofluorobenzene	**104**	80.6 - 114		10/3/2016 21:50
Pentafluorobenzene	**102**	89.6 - 112		10/3/2016 21:50
Toluene-D8	**105**	89.6 - 109		10/3/2016 21:50

Method Reference(s): EPA 8260C
EPA 1311 / 5030C

Data File: x35795.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164225

Client: O'Brien & Gere Engineers, Inc.

Project Reference: 60307

Sample Identifier: WC-03-0-8-092816, 10.1 ppm
Lab Sample ID: 164225-03 **Date Sampled:** 9/28/2016
Matrix: Soil **Date Received:** 9/29/2016

Flash Point

Analyte	Result	Units	Qualifier	Date Analyzed
Flash Point, Celsius	>70.0	C		10/3/2016

Method Reference(s): EPA 1010A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.382	mg/Kg		10/3/2016 04:15
PCB-1221	< 0.382	mg/Kg		10/3/2016 04:15
PCB-1232	< 0.382	mg/Kg		10/3/2016 04:15
PCB-1242	< 0.382	mg/Kg		10/3/2016 04:15
PCB-1248	< 0.382	mg/Kg		10/3/2016 04:15
PCB-1254	< 0.382	mg/Kg		10/3/2016 04:15
PCB-1260	< 0.382	mg/Kg		10/3/2016 04:15
PCB-1262	< 0.382	mg/Kg		10/3/2016 04:15
PCB-1268	< 0.382	mg/Kg		10/3/2016 04:15

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**54.0**	10 - 144		10/3/2016 04:15
Tetrachloro-m-xylene	**52.4**	10 - 140		10/3/2016 04:15

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 9/30/2016

pH

Analyte	Result	Units	Qualifier	Date Analyzed
pH	9.39 @ 24.9 C	S.U.		9/29/2016 13:15

Method Reference(s): EPA 9045D

Reactive Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Cyanide	<100	mg/Kg		10/3/2016

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164225

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 60307

Sample Identifier:	WC-03-0-8-092816, 10.1 ppm		
Lab Sample ID:	164225-03	**Date Sampled:**	9/28/2016
Matrix:	Soil	**Date Received:**	9/29/2016

Method Reference(s): EPA 7.3.3.2
Subcontractor ELAP ID: 11148
ELAP does not offer this test for approval as part of their laboratory certification program.

Reactive Sulfide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Sulfide	<100	mg/Kg		10/3/2016

Method Reference(s): EPA 7.3.4.2
Subcontractor ELAP ID: 11148
ELAP does not offer this test for approval as part of their laboratory certification program.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164225

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 60307

Sample Identifier:	WC-03-0-8-092816, 10.1 ppm		
Lab Sample ID:	164225-03A	**Date Sampled:**	9/28/2016
Matrix:	TCLP Extract	**Date Received:**	9/29/2016

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		10/3/2016 14:46
2,4,5-Trichlorophenol	< 80.0	ug/L	400000		10/3/2016 14:46
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		10/3/2016 14:46
2,4-Dinitrotoluene	< 40.0	ug/L	130		10/3/2016 14:46
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000		10/3/2016 14:46
Hexachlorobenzene	< 40.0	ug/L	130		10/3/2016 14:46
Hexachlorobutadiene	< 40.0	ug/L	500		10/3/2016 14:46
Hexachloroethane	< 40.0	ug/L	3000		10/3/2016 14:46
Nitrobenzene	< 40.0	ug/L	2000		10/3/2016 14:46
Pentachlorophenol	< 80.0	ug/L	100000		10/3/2016 14:46
Pyridine	< 40.0	ug/L	5000		10/3/2016 14:46

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**82.9**	34.3 - 131		10/3/2016 14:46
2-Fluorobiphenyl	**88.2**	42.8 - 105		10/3/2016 14:46
2-Fluorophenol	**63.2**	15.8 - 97.7		10/3/2016 14:46
Nitrobenzene-d5	**75.3**	49.7 - 100		10/3/2016 14:46
Phenol-d5	**61.6**	10 - 98.9		10/3/2016 14:46
Terphenyl-d14	**87.4**	52.6 - 115		10/3/2016 14:46

Method Reference(s): EPA 8270D
EPA 1311 / 3510C
Preparation Date: 10/3/2016
Data File: B14413.D

TCLP Mercury

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Mercury	< 0.00200	mg/L	0.2		10/1/2016 15:46

Method Reference(s): EPA 7470A
EPA 1311
Preparation Date: 10/1/2016
Data File: Hg161001A

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164225

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 60307

Sample Identifier: WC-03-0-8-092816, 10.1 ppm
Lab Sample ID: 164225-03A **Date Sampled:** 9/28/2016
Matrix: TCLP Extract **Date Received:** 9/29/2016

TCLP RCRA Metals (ICP)

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Arsenic	< 0.100	mg/L	5		10/3/2016 13:56
Barium	**0.698**	mg/L	100		10/3/2016 13:56
Cadmium	< 0.0250	mg/L	1		10/3/2016 13:56
Chromium	< 0.0500	mg/L	5		10/3/2016 13:56
Lead	< 0.100	mg/L	5		10/3/2016 13:56
Selenium	< 0.100	mg/L	1		10/3/2016 13:56
Silver	< 0.0500	mg/L	5		10/3/2016 13:56

Method Reference(s): EPA 6010C
EPA 1311 / 3005A
Preparation Date: 9/30/2016
Data File: 100316a

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 20.0	ug/L	700		10/3/2016 14:08
1,2-Dichloroethane	< 20.0	ug/L	500		10/3/2016 14:08
2-Butanone	< 100	ug/L	200000		10/3/2016 14:08
Benzene	< 20.0	ug/L	500		10/3/2016 14:08
Carbon Tetrachloride	< 20.0	ug/L	500		10/3/2016 14:08
Chlorobenzene	< 20.0	ug/L	100000		10/3/2016 14:08
Chloroform	< 20.0	ug/L	6000		10/3/2016 14:08
Tetrachloroethene	< 20.0	ug/L	700		10/3/2016 14:08
Trichloroethene	< 20.0	ug/L	500		10/3/2016 14:08
Vinyl chloride	< 20.0	ug/L	200		10/3/2016 14:08

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164225

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 60307

Sample Identifier: WC-03-0-8-092816, 10.1 ppm

Lab Sample ID: 164225-03A **Date Sampled:** 9/28/2016

Matrix: TCLP Extract **Date Received:** 9/29/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**109**	85.8 - 116		10/3/2016	14:08
4-Bromofluorobenzene	**99.5**	80.6 - 114		10/3/2016	14:08
Pentafluorobenzene	**101**	89.6 - 112		10/3/2016	14:08
Toluene-D8	**106**	89.6 - 109		10/3/2016	14:08

Method Reference(s): EPA 8260C
EPA 1311 / 5030C

Data File: x35775.D

Analytical Report Appendix

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

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

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

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

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

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

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

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

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, tern 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 wi 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 th 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 2

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		
CLIENT:	OBG	CLIENT:	OBG	LAB PROJECT ID: 164225
ADDRESS:	400 Andrews St Ste 710	ADDRESS:	333 West Washington	
CITY:	Rochester STATE: NY ZIP: 14604	CITY:	Syracuse STATE: NY ZIP:	Quotation #:
PHONE:	585-295-7717	PHONE:		Email: Logan.Reid@obg.com
ATTN:	Logan Reid	ATTN:	James Cavotta	

PROJECT REFERENCE: 60307

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	TCLP VOCs	TCLP SVOCs	TCLP RCRA Metals	pH	Ignitability	Reactivity	Total PCBs	REMARKS	PARADIGM LAB SAMPLE NUMBER
9-28-16	0945	X		WC-01-0-8-092816	SO	4	X	X	X	X	X	X	X	40 ppm Headspace	01A
9-28-16	1045	X		WC-02-0-3-092816	SO	4	X	X	X	X	X	X	X	17.4 ppm Headspace	02A
9-28-16	~~1300~~	X		WC-03-0-8-092816	SO	4	X	X	X	X	X	X	X	10.1 ppm	03A - rush TAT per client
~~9-28-16~~	1638	~~X~~			~~SO~~	4	X	X	X	X	X	X	X		
~~9-28-16~~		~~X~~			~~SO~~	4	X	X	X	X	X	X	X	A for TCLP extract. 6° 9/29/16	6° 9/30/16
														15°C iced started in field 9/28/16 1741hrs	

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	None Required	X	None Required	X
10 day		Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	
Rush 2 day		Category B			
Rush 1 day					
Other		Other		Other EDD	
please indicate date needed:		please indicate package needed:		please indicate EDD needed :	

Sampled By	9/28/16 1735 Date/Time	Total Cost:
Relinquished By	9/28/16 1735 Date/Time	
Received By	9/28/16 1735 Date/Time	P.I.F.
Received @ Lab By	9/29/16 11:10 Date/Time	

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: O'Brien & Gere **Completed by:** Glenn Pezzulo

Lab Project ID: 164225 **Date:** 9/29/16

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		
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 metals
Comments	15°C iced started in field		
Sufficient Sample Quantity	X		
Comments			

Serial_No:10041621:07

CHAIN OF CUSTODY

1 of 1

11148

4163107

REPORT TO:		INVOICE TO:	
COMPANY:	Paradigm Environmental	COMPANY:	Same
ADDRESS:	179 Lake Avenue	ADDRESS:	
CITY:	Rochester STATE: NY ZIP: 14608	CITY:	STATE: ZIP:
PHONE:	FAX:	PHONE:	FAX:
ATTN:	Reporting	ATTN:	Accounts Payable
COMMENTS:	Please email results to reporting@paradigmenv.com		

LAB PROJECT #:

CLIENT PROJECT #:

PROJECT NAME/SITE NAME:

TURNAROUND TIME: (WORKING DAYS)

STD OTHER

☐ 1 ☐ 2 ☐ 3 ☒ 5 ☐

Date Due: 10/7/16

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	Reactivity	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	9/28/16	09:45	X		164225-01	So.l	1	X		
2	↓	10:45	↓		↓ -02	↓	↓	X		
3	↓	16:38	↓		↓ -03	↓	↓	X		
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: 4.3°C per subcontract lab KR 10/6/16		

Client

Sampled By	Date/Time	9/29/16 16:00
Relinquished By	Date/Time	9-29-16 1700
Received By	Date/Time	9/30/16 0735
Received By	Date/Time	
Received @ Lab By	Date/Time	

Total Cost:

P.I.F.

PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

O'Brien & Gere Engineers, Inc.

For Lab Project ID

164239

Referencing

60307

Prepared

Friday, October 07, 2016

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

K R Hansen

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958 • PADEP ID# 68-02351

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164239

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 60307

Sample Identifier:	WC-04-0-3-092916		
Lab Sample ID:	164239-01	**Date Sampled:**	9/29/2016
Matrix:	Soil	**Date Received:**	9/29/2016

Flash Point

Analyte	Result	Units	Qualifier	Date Analyzed
Flash Point, Celsius	>70.0	C		10/6/2016

Method Reference(s): EPA 1010A

pH

Analyte	Result	Units	Qualifier	Date Analyzed
pH	8.05 @ 19.8 C	S.U.		10/5/2016 18:48

Method Reference(s): EPA 9045D

Reactive Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Cyanide	<100	mg/Kg		10/5/2016

Method Reference(s): EPA 7.3.3.2
Subcontractor ELAP ID: 11148
ELAP does not offer this test for approval as part of their laboratory certification program.

Reactive Sulfide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Sulfide	<100	mg/Kg		10/5/2016

Method Reference(s): EPA 7.3.4.2
Subcontractor ELAP ID: 11148
ELAP does not offer this test for approval as part of their laboratory certification program.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164239

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 60307

Sample Identifier: WC-04-0-3-092916
Lab Sample ID: 164239-01A **Date Sampled:** 9/29/2016
Matrix: TCLP Extract **Date Received:** 9/29/2016

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		10/5/2016 00:54
2,4,5-Trichlorophenol	< 80.0	ug/L	400000		10/5/2016 00:54
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		10/5/2016 00:54
2,4-Dinitrotoluene	< 40.0	ug/L	130		10/5/2016 00:54
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000		10/5/2016 00:54
Hexachlorobenzene	< 40.0	ug/L	130		10/5/2016 00:54
Hexachlorobutadiene	< 40.0	ug/L	500		10/5/2016 00:54
Hexachloroethane	< 40.0	ug/L	3000		10/5/2016 00:54
Nitrobenzene	< 40.0	ug/L	2000		10/5/2016 00:54
Pentachlorophenol	< 80.0	ug/L	100000		10/5/2016 00:54
Pyridine	< 40.0	ug/L	5000		10/5/2016 00:54

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**103**	34.3 - 131		10/5/2016 00:54
2-Fluorobiphenyl	**95.6**	42.8 - 105		10/5/2016 00:54
2-Fluorophenol	**74.5**	15.8 - 97.7		10/5/2016 00:54
Nitrobenzene-d5	**87.2**	49.7 - 100		10/5/2016 00:54
Phenol-d5	**71.1**	10 - 98.9		10/5/2016 00:54
Terphenyl-d14	**96.9**	52.6 - 115		10/5/2016 00:54

Method Reference(s): EPA 8270D
EPA 1311 / 3510C
Preparation Date: 10/4/2016
Data File: B14442.D

TCLP Mercury

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Mercury	< 0.00200	mg/L	0.2		10/1/2016 15:19

Method Reference(s): EPA 7470A
EPA 1311
Preparation Date: 10/1/2016
Data File: Hg161001A

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164239

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 60307

Sample Identifier: WC-04-0-3-092916
Lab Sample ID: 164239-01A **Date Sampled:** 9/29/2016
Matrix: TCLP Extract **Date Received:** 9/29/2016

TCLP RCRA Metals (ICP)

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Arsenic	< 0.100	mg/L	5		10/3/2016 18:32
Barium	**1.22**	mg/L	100		10/3/2016 18:32
Cadmium	**0.0720**	mg/L	1		10/3/2016 18:32
Chromium	< 0.0500	mg/L	5		10/3/2016 18:32
Lead	< 0.100	mg/L	5		10/3/2016 18:32
Selenium	< 0.100	mg/L	1		10/3/2016 18:32
Silver	< 0.0500	mg/L	5		10/3/2016 18:32

Method Reference(s): EPA 6010C
EPA 1311 / 3005A
Preparation Date: 10/1/2016
Data File: 100316b

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 20.0	ug/L	700		10/3/2016 23:18
1,2-Dichloroethane	< 20.0	ug/L	500		10/3/2016 23:18
2-Butanone	< 100	ug/L	200000		10/3/2016 23:18
Benzene	< 20.0	ug/L	500		10/3/2016 23:18
Carbon Tetrachloride	< 20.0	ug/L	500		10/3/2016 23:18
Chlorobenzene	< 20.0	ug/L	100000		10/3/2016 23:18
Chloroform	< 20.0	ug/L	6000		10/3/2016 23:18
Tetrachloroethene	< 20.0	ug/L	700		10/3/2016 23:18
Trichloroethene	< 20.0	ug/L	500		10/3/2016 23:18
Vinyl chloride	< 20.0	ug/L	200		10/3/2016 23:18

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164239

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 60307

Sample Identifier: WC-04-0-3-092916

Lab Sample ID: 164239-01A **Date Sampled:** 9/29/2016

Matrix: TCLP Extract **Date Received:** 9/29/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**97.6**	85.8 - 116		10/3/2016 23:18
4-Bromofluorobenzene	**100**	80.6 - 114		10/3/2016 23:18
Pentafluorobenzene	**102**	89.6 - 112		10/3/2016 23:18
Toluene-D8	**105**	89.6 - 109		10/3/2016 23:18

Method Reference(s): EPA 8260C
EPA 1311 / 5030C

Data File: x35799.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164239

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 60307

Sample Identifier:	WC-05-0-2-092916		
Lab Sample ID:	164239-02	**Date Sampled:**	9/29/2016
Matrix:	Soil	**Date Received:**	9/29/2016

Flash Point

Analyte	Result	Units	Qualifier	Date Analyzed
Flash Point, Celsius	>70.0	C		10/6/2016

Method Reference(s): EPA 1010A

pH

Analyte	Result	Units	Qualifier	Date Analyzed
pH	8.24 @ 20.1 C	S.U.		10/5/2016 18:48

Method Reference(s): EPA 9045D

Reactive Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Cyanide	<100	mg/Kg		10/5/2016

Method Reference(s): EPA 7.3.3.2
Subcontractor ELAP ID: 11148
ELAP does not offer this test for approval as part of their laboratory certification program.

Reactive Sulfide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Sulfide	<100	mg/Kg		10/5/2016

Method Reference(s): EPA 7.3.4.2
Subcontractor ELAP ID: 11148
ELAP does not offer this test for approval as part of their laboratory certification program.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164239

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 60307

Sample Identifier:	WC-05-0-2-092916		
Lab Sample ID:	164239-02A	**Date Sampled:**	9/29/2016
Matrix:	TCLP Extract	**Date Received:**	9/29/2016

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		10/5/2016 01:23
2,4,5-Trichlorophenol	< 80.0	ug/L	400000		10/5/2016 01:23
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		10/5/2016 01:23
2,4-Dinitrotoluene	< 40.0	ug/L	130		10/5/2016 01:23
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000		10/5/2016 01:23
Hexachlorobenzene	< 40.0	ug/L	130		10/5/2016 01:23
Hexachlorobutadiene	< 40.0	ug/L	500		10/5/2016 01:23
Hexachloroethane	< 40.0	ug/L	3000		10/5/2016 01:23
Nitrobenzene	< 40.0	ug/L	2000		10/5/2016 01:23
Pentachlorophenol	< 80.0	ug/L	100000		10/5/2016 01:23
Pyridine	< 40.0	ug/L	5000		10/5/2016 01:23

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**104**	34.3 - 131		10/5/2016 01:23
2-Fluorobiphenyl	**96.5**	42.8 - 105		10/5/2016 01:23
2-Fluorophenol	**76.9**	15.8 - 97.7		10/5/2016 01:23
Nitrobenzene-d5	**87.2**	49.7 - 100		10/5/2016 01:23
Phenol-d5	**72.0**	10 - 98.9		10/5/2016 01:23
Terphenyl-d14	**99.0**	52.6 - 115		10/5/2016 01:23

Method Reference(s): EPA 8270D
EPA 1311 / 3510C
Preparation Date: 10/4/2016
Data File: B14443.D

TCLP Mercury

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Mercury	< 0.00200	mg/L	0.2		10/1/2016 15:29

Method Reference(s): EPA 7470A
EPA 1311
Preparation Date: 10/1/2016
Data File: Hg161001A

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164239

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 60307

Sample Identifier: WC-05-0-2-092916
Lab Sample ID: 164239-02A **Date Sampled:** 9/29/2016
Matrix: TCLP Extract **Date Received:** 9/29/2016

TCLP RCRA Metals (ICP)

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Arsenic	< 0.100	mg/L	5		10/3/2016 18:36
Barium	**1.16**	mg/L	100		10/3/2016 18:36
Cadmium	**0.118**	mg/L	1		10/3/2016 18:36
Chromium	< 0.0500	mg/L	5		10/3/2016 18:36
Lead	**0.370**	mg/L	5		10/3/2016 18:36
Selenium	< 0.100	mg/L	1		10/3/2016 18:36
Silver	< 0.0500	mg/L	5		10/3/2016 18:36

Method Reference(s): EPA 6010C
EPA 1311 / 3005A
Preparation Date: 10/1/2016
Data File: 100316b

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 20.0	ug/L	700		10/3/2016 23:41
1,2-Dichloroethane	< 20.0	ug/L	500		10/3/2016 23:41
2-Butanone	< 100	ug/L	200000		10/3/2016 23:41
Benzene	< 20.0	ug/L	500		10/3/2016 23:41
Carbon Tetrachloride	< 20.0	ug/L	500		10/3/2016 23:41
Chlorobenzene	< 20.0	ug/L	100000		10/3/2016 23:41
Chloroform	< 20.0	ug/L	6000		10/3/2016 23:41
Tetrachloroethene	< 20.0	ug/L	700		10/3/2016 23:41
Trichloroethene	< 20.0	ug/L	500		10/3/2016 23:41
Vinyl chloride	< 20.0	ug/L	200		10/3/2016 23:41

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164239

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 60307

Sample Identifier: WC-05-0-2-092916

Lab Sample ID: 164239-02A **Date Sampled:** 9/29/2016

Matrix: TCLP Extract **Date Received:** 9/29/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**98.8**	85.8 - 116		10/3/2016 23:41
4-Bromofluorobenzene	**99.8**	80.6 - 114		10/3/2016 23:41
Pentafluorobenzene	**101**	89.6 - 112		10/3/2016 23:41
Toluene-D8	**105**	89.6 - 109		10/3/2016 23:41

Method Reference(s): EPA 8260C
EPA 1311 / 5030C

Data File: x35800.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164239

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 60307

Sample Identifier:	Buried_Drum-1-092916		
Lab Sample ID:	164239-03	**Date Sampled:**	9/29/2016
Matrix:	Oil	**Date Received:**	9/29/2016

Flash Point

Analyte	Result	Units	Qualifier	Date Analyzed
Flash Point, Celsius	>70.0	C		10/3/2016

Method Reference(s): EPA 1010A

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0224**	mg/Kg		9/30/2016 17:25

Method Reference(s): EPA 7471B
Preparation Date: 9/30/2016
Data File: Hg160930B

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**2.96**	mg/Kg		9/30/2016 19:46
Barium	**12.4**	mg/Kg	D	9/30/2016 19:46
Cadmium	< 0.240	mg/Kg		9/30/2016 19:46
Chromium	**3.54**	mg/Kg		9/30/2016 19:46
Lead	**9.72**	mg/Kg	D	9/30/2016 19:46
Selenium	< 0.481	mg/Kg		10/3/2016 16:14
Silver	< 0.481	mg/Kg		9/30/2016 19:46

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 9/30/2016
Data File: 093016b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 4.81	mg/Kg		10/3/2016 12:12
PCB-1221	< 4.81	mg/Kg		10/3/2016 12:12
PCB-1232	< 4.81	mg/Kg		10/3/2016 12:12
PCB-1242	< 4.81	mg/Kg		10/3/2016 12:12
PCB-1248	< 4.81	mg/Kg		10/3/2016 12:12

Sample Identifier: Buried_Drum-1-092916
Lab Sample ID: 164239-03 **Date Sampled:** 9/29/2016
Matrix: Oil **Date Received:** 9/29/2016

PCB-1254	< 4.81	mg/Kg		10/3/2016 12:12
PCB-1260	< 4.81	mg/Kg		10/3/2016 12:12
PCB-1262	< 4.81	mg/Kg		10/3/2016 12:12
PCB-1268	< 4.81	mg/Kg		10/3/2016 12:12

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**54.8**	10 - 113		10/3/2016 12:12
Tetrachloro-m-xylene	**28.2**	10 - 93		10/3/2016 12:12

Method Reference(s): EPA 8082A
EPA 3580A
Preparation Date: 9/30/2016

Reactive Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Cyanide	<100	mg/Kg		10/2/2016

Method Reference(s): EPA 7.3.3.2
Subcontractor ELAP ID: 11148
ELAP does not offer this test for approval as part of their laboratory certification program.

Reactive Sulfide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Sulfide	<100	mg/Kg		10/2/2016

Method Reference(s): EPA 7.3.4.2
Subcontractor ELAP ID: 11148
ELAP does not offer this test for approval as part of their laboratory certification program.

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 943000	ug/Kg		9/30/2016 17:41
1,2,4,5-Tetrachlorobenzene	< 943000	ug/Kg		9/30/2016 17:41
1,2,4-Trichlorobenzene	< 943000	ug/Kg		9/30/2016 17:41
1,2-Dichlorobenzene	< 943000	ug/Kg		9/30/2016 17:41
1,3-Dichlorobenzene	< 943000	ug/Kg		9/30/2016 17:41
1,4-Dichlorobenzene	< 943000	ug/Kg		9/30/2016 17:41
2,2-Oxybis (1-chloropropane)	< 943000	ug/Kg		9/30/2016 17:41

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164239

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 60307

Sample Identifier: Buried_Drum-1-092916
Lab Sample ID: 164239-03 **Date Sampled:** 9/29/2016
Matrix: Oil **Date Received:** 9/29/2016

2,3,4,6-Tetrachlorophenol	< 943000	ug/Kg	9/30/2016	17:41
2,4,5-Trichlorophenol	< 1890000	ug/Kg	9/30/2016	17:41
2,4,6-Trichlorophenol	< 943000	ug/Kg	9/30/2016	17:41
2,4-Dichlorophenol	< 943000	ug/Kg	9/30/2016	17:41
2,4-Dimethylphenol	< 943000	ug/Kg	9/30/2016	17:41
2,4-Dinitrophenol	< 1890000	ug/Kg	9/30/2016	17:41
2,4-Dinitrotoluene	< 943000	ug/Kg	9/30/2016	17:41
2,6-Dinitrotoluene	< 943000	ug/Kg	9/30/2016	17:41
2-Chloronaphthalene	< 943000	ug/Kg	9/30/2016	17:41
2-Chlorophenol	< 943000	ug/Kg	9/30/2016	17:41
2-Methylnapthalene	< 943000	ug/Kg	9/30/2016	17:41
2-Methylphenol	< 943000	ug/Kg	9/30/2016	17:41
2-Nitroaniline	< 1890000	ug/Kg	9/30/2016	17:41
2-Nitrophenol	< 943000	ug/Kg	9/30/2016	17:41
3&4-Methylphenol	< 943000	ug/Kg	9/30/2016	17:41
3,3'-Dichlorobenzidine	< 943000	ug/Kg	9/30/2016	17:41
3-Nitroaniline	< 1890000	ug/Kg	9/30/2016	17:41
4,6-Dinitro-2-methylphenol	< 1890000	ug/Kg	9/30/2016	17:41
4-Bromophenyl phenyl ether	< 943000	ug/Kg	9/30/2016	17:41
4-Chloro-3-methylphenol	< 943000	ug/Kg	9/30/2016	17:41
4-Chloroaniline	< 943000	ug/Kg	9/30/2016	17:41
4-Chlorophenyl phenyl ether	< 943000	ug/Kg	9/30/2016	17:41
4-Nitroaniline	< 1890000	ug/Kg	9/30/2016	17:41
4-Nitrophenol	< 1890000	ug/Kg	9/30/2016	17:41
Acenaphthene	< 943000	ug/Kg	9/30/2016	17:41
Acenaphthylene	< 943000	ug/Kg	9/30/2016	17:41
Acetophenone	< 943000	ug/Kg	9/30/2016	17:41
Anthracene	< 943000	ug/Kg	9/30/2016	17:41
Atrazine	< 943000	ug/Kg	9/30/2016	17:41
Benzaldehyde	< 943000	ug/Kg	9/30/2016	17:41
Benzo (a) anthracene	< 943000	ug/Kg	9/30/2016	17:41
Benzo (a) pyrene	< 943000	ug/Kg	9/30/2016	17:41

Sample Identifier:	Buried_Drum-1-092916		
Lab Sample ID:	164239-03	**Date Sampled:**	9/29/2016
Matrix:	Oil	**Date Received:**	9/29/2016

Benzo (b) fluoranthene	< 943000	ug/Kg	9/30/2016	17:41
Benzo (g,h,i) perylene	< 943000	ug/Kg	9/30/2016	17:41
Benzo (k) fluoranthene	< 943000	ug/Kg	9/30/2016	17:41
Bis (2-chloroethoxy) methane	< 943000	ug/Kg	9/30/2016	17:41
Bis (2-chloroethyl) ether	< 943000	ug/Kg	9/30/2016	17:41
Bis (2-ethylhexyl) phthalate	< 943000	ug/Kg	9/30/2016	17:41
Butylbenzylphthalate	< 943000	ug/Kg	9/30/2016	17:41
Caprolactam	< 943000	ug/Kg	9/30/2016	17:41
Carbazole	< 943000	ug/Kg	9/30/2016	17:41
Chrysene	< 943000	ug/Kg	9/30/2016	17:41
Dibenz (a,h) anthracene	< 943000	ug/Kg	9/30/2016	17:41
Dibenzofuran	< 943000	ug/Kg	9/30/2016	17:41
Diethyl phthalate	< 943000	ug/Kg	9/30/2016	17:41
Dimethyl phthalate	< 1890000	ug/Kg	9/30/2016	17:41
Di-n-butyl phthalate	< 943000	ug/Kg	9/30/2016	17:41
Di-n-octylphthalate	< 943000	ug/Kg	9/30/2016	17:41
Fluoranthene	< 943000	ug/Kg	9/30/2016	17:41
Fluorene	< 943000	ug/Kg	9/30/2016	17:41
Hexachlorobenzene	< 943000	ug/Kg	9/30/2016	17:41
Hexachlorobutadiene	< 943000	ug/Kg	9/30/2016	17:41
Hexachlorocyclopentadiene	< 943000	ug/Kg	9/30/2016	17:41
Hexachloroethane	< 943000	ug/Kg	9/30/2016	17:41
Indeno (1,2,3-cd) pyrene	< 943000	ug/Kg	9/30/2016	17:41
Isophorone	< 943000	ug/Kg	9/30/2016	17:41
Naphthalene	< 943000	ug/Kg	9/30/2016	17:41
Nitrobenzene	< 943000	ug/Kg	9/30/2016	17:41
N-Nitroso-di-n-propylamine	< 943000	ug/Kg	9/30/2016	17:41
N-Nitrosodiphenylamine	< 943000	ug/Kg	9/30/2016	17:41
Pentachlorophenol	< 1890000	ug/Kg	9/30/2016	17:41
Phenanthrene	< 943000	ug/Kg	9/30/2016	17:41
Phenol	< 943000	ug/Kg	9/30/2016	17:41
Pyrene	< 943000	ug/Kg	9/30/2016	17:41

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164239

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 60307

Sample Identifier: Buried_Drum-1-092916
Lab Sample ID: 164239-03 **Date Sampled:** 9/29/2016
Matrix: Oil **Date Received:** 9/29/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**101**	70 - 130		9/30/2016 17:41
2-Fluorobiphenyl	**113**	70 - 130		9/30/2016 17:41
2-Fluorophenol	**104**	70 - 130		9/30/2016 17:41
Nitrobenzene-d5	**98.3**	70 - 130		9/30/2016 17:41
Phenol-d5	**107**	70 - 130		9/30/2016 17:41
Terphenyl-d14	**99.6**	70 - 130		9/30/2016 17:41

Reporting limit elevated due to oil matrix

Method Reference(s): EPA 8270D
EPA 3580A
Preparation Date: 9/30/2016
Data File: B14398.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 1960	ug/Kg		9/30/2016 18:17
1,1,2,2-Tetrachloroethane	< 1960	ug/Kg		9/30/2016 18:17
1,1,2-Trichloroethane	< 1960	ug/Kg		9/30/2016 18:17
1,1-Dichloroethane	< 1960	ug/Kg		9/30/2016 18:17
1,1-Dichloroethene	< 1960	ug/Kg		9/30/2016 18:17
1,2,3-Trichlorobenzene	< 4900	ug/Kg		9/30/2016 18:17
1,2,4-Trichlorobenzene	< 4900	ug/Kg		9/30/2016 18:17
1,2-Dibromo-3-Chloropropane	< 9800	ug/Kg		9/30/2016 18:17
1,2-Dibromoethane	< 1960	ug/Kg		9/30/2016 18:17
1,2-Dichlorobenzene	< 1960	ug/Kg		9/30/2016 18:17
1,2-Dichloroethane	< 1960	ug/Kg		9/30/2016 18:17
1,2-Dichloropropane	< 1960	ug/Kg		9/30/2016 18:17
1,3-Dichlorobenzene	< 1960	ug/Kg		9/30/2016 18:17
1,4-Dichlorobenzene	< 1960	ug/Kg		9/30/2016 18:17
1,4-dioxane	< 19600	ug/Kg		9/30/2016 18:17
2-Butanone	< 9800	ug/Kg		9/30/2016 18:17
2-Hexanone	< 4900	ug/Kg		9/30/2016 18:17
4-Methyl-2-pentanone	< 4900	ug/Kg		9/30/2016 18:17

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164239

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 60307

Sample Identifier:	Buried_Drum-1-092916		
Lab Sample ID:	164239-03	**Date Sampled:**	9/29/2016
Matrix:	Oil	**Date Received:**	9/29/2016

Acetone	< 9800	ug/Kg	9/30/2016	18:17
Benzene	**3650**	ug/Kg	9/30/2016	18:17
Bromochloromethane	< 4900	ug/Kg	9/30/2016	18:17
Bromodichloromethane	< 1960	ug/Kg	9/30/2016	18:17
Bromoform	< 4900	ug/Kg	9/30/2016	18:17
Bromomethane	< 1960	ug/Kg	9/30/2016	18:17
Carbon disulfide	< 1960	ug/Kg	9/30/2016	18:17
Carbon Tetrachloride	< 1960	ug/Kg	9/30/2016	18:17
Chlorobenzene	< 1960	ug/Kg	9/30/2016	18:17
Chloroethane	< 1960	ug/Kg	9/30/2016	18:17
Chloroform	< 1960	ug/Kg	9/30/2016	18:17
Chloromethane	< 1960	ug/Kg	9/30/2016	18:17
cis-1,2-Dichloroethene	< 1960	ug/Kg	9/30/2016	18:17
cis-1,3-Dichloropropene	< 1960	ug/Kg	9/30/2016	18:17
Cyclohexane	< 9800	ug/Kg	9/30/2016	18:17
Dibromochloromethane	< 1960	ug/Kg	9/30/2016	18:17
Dichlorodifluoromethane	< 1960	ug/Kg	9/30/2016	18:17
Ethylbenzene	< 1960	ug/Kg	9/30/2016	18:17
Freon 113	< 1960	ug/Kg	9/30/2016	18:17
Isopropylbenzene	< 1960	ug/Kg	9/30/2016	18:17
m,p-Xylene	< 1960	ug/Kg	9/30/2016	18:17
Methyl acetate	< 1960	ug/Kg	9/30/2016	18:17
Methyl tert-butyl Ether	< 1960	ug/Kg	9/30/2016	18:17
Methylcyclohexane	**5350**	ug/Kg	9/30/2016	18:17
Methylene chloride	< 4900	ug/Kg	9/30/2016	18:17
o-Xylene	< 1960	ug/Kg	9/30/2016	18:17
Styrene	< 4900	ug/Kg	9/30/2016	18:17
Tetrachloroethene	< 1960	ug/Kg	9/30/2016	18:17
Toluene	< 1960	ug/Kg	9/30/2016	18:17
trans-1,2-Dichloroethene	< 1960	ug/Kg	9/30/2016	18:17
trans-1,3-Dichloropropene	< 1960	ug/Kg	9/30/2016	18:17
Trichloroethene	< 1960	ug/Kg	9/30/2016	18:17

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164239

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 60307

Sample Identifier: Buried_Drum-1-092916
Lab Sample ID: 164239-03 **Date Sampled:** 9/29/2016
Matrix: Oil **Date Received:** 9/29/2016

Trichlorofluoromethane	< 1960	ug/Kg			9/30/2016 18:17
Vinyl chloride	< 1960	ug/Kg			9/30/2016 18:17

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**104**	82 - 124		9/30/2016 18:17
4-Bromofluorobenzene	**104**	80.5 - 116		9/30/2016 18:17
Pentafluorobenzene	**107**	88.7 - 112		9/30/2016 18:17
Toluene-D8	**104**	79.1 - 120		9/30/2016 18:17

Method Reference(s): EPA 8260C
EPA 3585
Data File: x35752.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164239

Client: O'Brien & Gere Engineers, Inc.

Project Reference: 60307

Sample Identifier: Pond_Drum-092916
Lab Sample ID: 164239-04 **Date Sampled:** 9/29/2016
Matrix: Sludge **Date Received:** 9/29/2016

Flash Point

Analyte	Result	Units	Qualifier	Date Analyzed
Flash Point, Celsius	>70.0	C		10/6/2016

Method Reference(s): EPA 1010A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 1.07	mg/Kg		10/6/2016 09:45
PCB-1221	< 1.07	mg/Kg		10/6/2016 09:45
PCB-1232	< 1.07	mg/Kg		10/6/2016 09:45
PCB-1242	**6.88**	mg/Kg		10/6/2016 09:45
PCB-1248	< 1.07	mg/Kg		10/6/2016 09:45
PCB-1254	**2.70**	mg/Kg		10/6/2016 09:45
PCB-1260	< 1.07	mg/Kg		10/6/2016 09:45
PCB-1262	< 1.07	mg/Kg		10/6/2016 09:45
PCB-1268	< 1.07	mg/Kg		10/6/2016 09:45

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**185**	10 - 144	*	10/6/2016 09:45
Tetrachloro-m-xylene	**41.1**	10 - 140		10/6/2016 09:45

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 10/3/2016

pH

Analyte	Result	Units	Qualifier	Date Analyzed
pH	**6.00**	S.U.		10/5/2016 18:48

Method Reference(s): pH by Strip

Reactive Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Cyanide	<100	mg/Kg		10/5/2016

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164239

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 60307

Sample Identifier:	Pond_Drum-092916		
Lab Sample ID:	164239-04	**Date Sampled:**	9/29/2016
Matrix:	Sludge	**Date Received:**	9/29/2016

Method Reference(s): EPA 7.3.3.2
Subcontractor ELAP ID: 11148
ELAP does not offer this test for approval as part of their laboratory certification program.

Reactive Sulfide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Sulfide	**180**	mg/Kg		10/5/2016

Method Reference(s): EPA 7.3.4.2
Subcontractor ELAP ID: 11148
ELAP does not offer this test for approval as part of their laboratory certification program.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164239

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 60307

Sample Identifier: Pond_Drum-092916
Lab Sample ID: 164239-04A **Date Sampled:** 9/29/2016
Matrix: TCLP Extract **Date Received:** 9/29/2016

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		10/5/2016 01:52
2,4,5-Trichlorophenol	< 80.0	ug/L	400000		10/5/2016 01:52
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		10/5/2016 01:52
2,4-Dinitrotoluene	< 40.0	ug/L	130		10/5/2016 01:52
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000		10/5/2016 01:52
Hexachlorobenzene	< 40.0	ug/L	130		10/5/2016 01:52
Hexachlorobutadiene	< 40.0	ug/L	500		10/5/2016 01:52
Hexachloroethane	< 40.0	ug/L	3000		10/5/2016 01:52
Nitrobenzene	< 40.0	ug/L	2000		10/5/2016 01:52
Pentachlorophenol	< 80.0	ug/L	100000		10/5/2016 01:52
Pyridine	< 40.0	ug/L	5000		10/5/2016 01:52

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**97.6**	34.3 - 131		10/5/2016 01:52
2-Fluorobiphenyl	**102**	42.8 - 105		10/5/2016 01:52
2-Fluorophenol	**70.1**	15.8 - 97.7		10/5/2016 01:52
Nitrobenzene-d5	**89.6**	49.7 - 100		10/5/2016 01:52
Phenol-d5	**59.8**	10 - 98.9		10/5/2016 01:52
Terphenyl-d14	**97.6**	52.6 - 115		10/5/2016 01:52

Method Reference(s): EPA 8270D
EPA 1311 / 3510C
Preparation Date: 10/4/2016
Data File: B14444.D

TCLP Mercury

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Mercury	< 0.00200	mg/L	0.2		10/1/2016 15:33

Method Reference(s): EPA 7470A
EPA 1311
Preparation Date: 10/1/2016
Data File: Hg161001A

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164239

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 60307

Sample Identifier: Pond_Drum-092916
Lab Sample ID: 164239-04A **Date Sampled:** 9/29/2016
Matrix: TCLP Extract **Date Received:** 9/29/2016

TCLP RCRA Metals (ICP)

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Arsenic	< 0.100	mg/L	5		10/3/2016 18:41
Barium	**2.92**	mg/L	100		10/3/2016 18:41
Cadmium	< 0.0250	mg/L	1		10/3/2016 18:41
Chromium	< 0.0500	mg/L	5		10/3/2016 18:41
Lead	< 0.100	mg/L	5		10/3/2016 18:41
Selenium	< 0.100	mg/L	1		10/3/2016 18:41
Silver	< 0.0500	mg/L	5		10/3/2016 18:41

Method Reference(s): EPA 6010C
EPA 1311 / 3005A
Preparation Date: 10/1/2016
Data File: 100316b

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 20.0	ug/L	700		10/5/2016 21:58
1,2-Dichloroethane	< 20.0	ug/L	500		10/5/2016 21:58
2-Butanone	< 100	ug/L	200000		10/5/2016 21:58
Benzene	< 20.0	ug/L	500		10/5/2016 21:58
Carbon Tetrachloride	< 20.0	ug/L	500		10/5/2016 21:58
Chlorobenzene	< 20.0	ug/L	100000		10/5/2016 21:58
Chloroform	< 20.0	ug/L	6000		10/5/2016 21:58
Tetrachloroethene	< 20.0	ug/L	700		10/5/2016 21:58
Trichloroethene	< 20.0	ug/L	500		10/5/2016 21:58
Vinyl chloride	< 20.0	ug/L	200		10/5/2016 21:58

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 164239

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 60307

Sample Identifier: Pond_Drum-092916

Lab Sample ID: 164239-04A **Date Sampled:** 9/29/2016

Matrix: TCLP Extract **Date Received:** 9/29/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**116**	85.8 - 116		10/5/2016 21:58
4-Bromofluorobenzene	**99.1**	80.6 - 114		10/5/2016 21:58
Pentafluorobenzene	**98.5**	89.6 - 112		10/5/2016 21:58
Toluene-D8	**105**	89.6 - 109		10/5/2016 21:58

Method Reference(s): EPA 8260C
EPA 1311 / 5030C

Data File: x35856.D

Analytical Report Appendix

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

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

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

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

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

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

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

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

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, tern 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 wi 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 th 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

PARADIGM
ENVIRONMENTAL SERVICES, INC

CHAIN OF CUSTODY

1 of 2

REPORT TO:		INVOICE TO:		
CLIENT:	OBG	CLIENT:	OBG	LAB PROJECT ID: 164239
ADDRESS:	400 Andrews St Ste 710	ADDRESS:	333 W/st Washington St	
CITY:	Rochester STATE: NY ZIP 14604	CITY:	Syracuse STATE: NY ZIP:	Quotation #:
PHONE:	585-295-7717	PHONE:	315-956-6100	Email: Logan.Reid@obg.com
ATTN:	Logan Reid	ATTN:	James Cavotta	

PROJECT REFERENCE
60307

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 per history GP 9/30/16

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCLP VOCs	TCLP SVOCs	TCLP RCRA Metals 8	pH	Ignitability	Reactivity	Total VOCs TCL	Total SVOCs TCL	Total RCRA Metals 8	Total PCBs	REMARKS	PARADIGM LAB SAMPLE NUMBER
9/29/16	1000	X		WC-04-0-3-092916	SO	4	X	X	X	X	X	X						01A
9/29/16	1045	X		WC-05-0-2-092916	SO	4	X	X	X	X	X	X						02A
9/29/16	1115	X		Buried_Drum-1-092916	OL	4				X	X	X	X	X	X	X	Jars coated in oil, slippery/High VOCs	03
9/29/16	1220	X		Pond_Drum-092916	SL	5	X	X	X	X	X	X				X	High VOCs possible	04A
9/29/16	1135		X	Wipe-1-092916 separate project GP 9/29/16	WP	1	-									X	24-HR TAT	
																	A for TCLP extract. GP 9/29/16	
																	pH cancelled -03 - SD cannot read strip 10/3/16	

Turnaround Time		Report Supplements		
Availability contingent upon lab approval; additional fees may apply.				
Standard 5 day	X	None Required	X	None Required X
10 day		Batch QC		Basic EDD
Rush 3 day		Category A		NYSDEC EDD
Rush 2 day		Category B		
Rush 1 day WP only	X			
Other please indicate date needed:		Other please indicate package needed:		Other EDD please indicate EDD needed :

Sampled By — 9/29/16 1515 — Date/Time — Total Cost:

Relinquished By — 9/29/16 1515 — Date/Time

Received By — 9/29/16 15:15 — Date/Time — P.I.F.

Received @ Lab By — 9/29/16 16:13 — Date/Time

13° Iced started in field 9/29/16 15:36

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

Chain of Custody Supplement

Client: O'Brien & Gere **Completed by:** Glenn Pezzulo

Lab Project ID: 164239 **Date:** 9/30/16

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		
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 pH strips
Comments	13°C iced Started in field		
Sufficient Sample Quantity	X		
Comments			

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

CHAIN OF CUSTODY

C1631164 1 of 1 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:	Reporting	ATTN:	Accounts Payable
		COMMENTS:	Please email results to reporting@paradigmenv.com	1 2 3 5	

Date Due: 10/3/16 3PM - Samples 03

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	Reactivity	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	9/29/16	10:00	X		164239-01	Soil	1	X	10/7/16 - Samples 01 02 04	
2		10:45			-02	Soil				
3		11:15			-03	Oil			Rush TAT - 03	
4		12:20			-04	Sludge				
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: 5.9°C per subcontract lab RTC 10/6/16		

Client

Sampled By	Date/Time	9/30/16 16:00
Relinquished By	Date/Time	9-30-16 1545
Received By	Date/Time	10/1/16 0040
Received By	Date/Time	
Received @ Lab By	Date/Time	

Total Cost:

P.I.F.

PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC

Analytical Report For

O'Brien & Gere Engineers, Inc.

For Lab Project ID

165454

Referencing

80 Steel Street

Prepared

Thursday, December 22, 2016

This project has been re-issued to report data for PCBs, per Chain of Custody.

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958 • PADEP ID# 68-02351

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 165454

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 80 Steel Street

Sample Identifier:	Sample 1-5		
Lab Sample ID:	165454-01	**Date Sampled:**	12/16/2016
Matrix:	Soil	**Date Received:**	12/16/2016

Flash Point

Analyte	Result	Units	Qualifier	Date Analyzed
Flash Point, Celsius	> 70.0	C		12/20/2016

Method Reference(s): EPA 1010A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.387	mg/Kg		12/22/2016 05:26
PCB-1221	< 0.387	mg/Kg		12/22/2016 05:26
PCB-1232	< 0.387	mg/Kg		12/22/2016 05:26
PCB-1242	< 0.387	mg/Kg		12/22/2016 05:26
PCB-1248	**0.744**	mg/Kg		12/22/2016 05:26
PCB-1254	**0.400**	mg/Kg	B	12/22/2016 05:26
PCB-1260	< 0.387	mg/Kg		12/22/2016 05:26
PCB-1262	< 0.387	mg/Kg		12/22/2016 05:26
PCB-1268	< 0.387	mg/Kg		12/22/2016 05:26

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**139**	10 - 144		12/22/2016 05:26
Tetrachloro-m-xylene	**105**	10 - 140		12/22/2016 05:26

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

Preparation Date: 12/21/2016

pH

Analyte	Result	Units	Qualifier	Date Analyzed
pH	8.14 @ 20.0 C	S.U.		12/19/2016 12:20

Method Reference(s): EPA 9045D

Reactive Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Cyanide	<100	mg/Kg		12/19/2016

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 165454

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 80 Steel Street

Sample Identifier:	Sample 1-5		
Lab Sample ID:	165454-01	**Date Sampled:**	12/16/2016
Matrix:	Soil	**Date Received:**	12/16/2016

Method Reference(s): EPA 7.3.3.2
Subcontractor ELAP ID: 11148
ELAP does not offer this test for approval as part of their laboratory certification program.

Reactive Sulfide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Sulfide	<100	mg/Kg		12/19/2016

Method Reference(s): EPA 7.3.4.2
Subcontractor ELAP ID: 11148
ELAP does not offer this test for approval as part of their laboratory certification program.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 165454

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 80 Steel Street

Sample Identifier:	Sample 1-5		
Lab Sample ID:	165454-01A	**Date Sampled:**	12/16/2016
Matrix:	TCLP Extract	**Date Received:**	12/16/2016

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		12/19/2016 14:59
2,4,5-Trichlorophenol	< 80.0	ug/L	400000		12/19/2016 14:59
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		12/19/2016 14:59
2,4-Dinitrotoluene	< 40.0	ug/L	130		12/19/2016 14:59
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000		12/19/2016 14:59
Hexachlorobenzene	< 40.0	ug/L	130		12/19/2016 14:59
Hexachlorobutadiene	< 40.0	ug/L	500		12/19/2016 14:59
Hexachloroethane	< 40.0	ug/L	3000		12/19/2016 14:59
Nitrobenzene	< 40.0	ug/L	2000		12/19/2016 14:59
Pentachlorophenol	< 80.0	ug/L	100000		12/19/2016 14:59
Pyridine	< 40.0	ug/L	5000		12/19/2016 14:59

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**76.2**	34.3 - 131		12/19/2016 14:59
2-Fluorobiphenyl	**66.8**	42.8 - 105		12/19/2016 14:59
2-Fluorophenol	**57.6**	15.8 - 97.7		12/19/2016 14:59
Nitrobenzene-d5	**66.1**	49.7 - 100		12/19/2016 14:59
Phenol-d5	**54.7**	10 - 98.9		12/19/2016 14:59
Terphenyl-d14	**76.8**	52.6 - 115		12/19/2016 14:59

Method Reference(s): EPA 8270D
EPA 1311 / 3510C
Preparation Date: 12/19/2016
Data File: B16128.D

TCLP Mercury

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Mercury	< 0.00200	mg/L	0.2		12/20/2016 14:23

Method Reference(s): EPA 7470A
EPA 1311
Preparation Date: 12/20/2016
Data File: Hg161220A

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 165454

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 80 Steel Street

Sample Identifier: Sample 1-5
Lab Sample ID: 165454-01A **Date Sampled:** 12/16/2016
Matrix: TCLP Extract **Date Received:** 12/16/2016

TCLP RCRA Metals (ICP)

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Arsenic	< 0.100	mg/L	5		12/20/2016 11:13
Barium	**0.820**	mg/L	100		12/20/2016 11:13
Cadmium	< 0.0250	mg/L	1		12/20/2016 11:13
Chromium	< 0.0500	mg/L	5		12/20/2016 11:13
Lead	**0.106**	mg/L	5		12/20/2016 11:13
Selenium	< 0.100	mg/L	1		12/20/2016 11:13
Silver	< 0.0500	mg/L	5		12/20/2016 11:13

Method Reference(s): EPA 6010C
EPA 1311 / 3005A
Preparation Date: 12/19/2016
Data File: 122016b

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 20.0	ug/L	700		12/19/2016 14:23
1,1-Dichloroethene	< 20.0	ug/L	700		12/19/2016 14:23
1,1-Dichloroethene	< 20.0	ug/L	700		12/19/2016 14:23
1,1-Dichloroethene	< 20.0	ug/L	700		12/19/2016 14:23
1,2-Dichloroethane	< 20.0	ug/L	500		12/19/2016 14:23
1,2-Dichloroethane	< 20.0	ug/L	500		12/19/2016 14:23
1,2-Dichloroethane	< 20.0	ug/L	500		12/19/2016 14:23
1,2-Dichloroethane	< 20.0	ug/L	500		12/19/2016 14:23
2-Butanone	< 100	ug/L	200000		12/19/2016 14:23
2-Butanone	< 100	ug/L	200000		12/19/2016 14:23
2-Butanone	< 100	ug/L	200000		12/19/2016 14:23
2-Butanone	< 100	ug/L	200000		12/19/2016 14:23
Benzene	< 20.0	ug/L	500		12/19/2016 14:23
Benzene	< 20.0	ug/L	500		12/19/2016 14:23
Benzene	< 20.0	ug/L	500		12/19/2016 14:23
Benzene	< 20.0	ug/L	500		12/19/2016 14:23

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 165454

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 80 Steel Street

Sample Identifier: Sample 1-5
Lab Sample ID: 165454-01A **Date Sampled:** 12/16/2016
Matrix: TCLP Extract **Date Received:** 12/16/2016

Carbon Tetrachloride	< 20.0	ug/L	500	12/19/2016 14:23
Carbon Tetrachloride	< 20.0	ug/L	500	12/19/2016 14:23
Carbon Tetrachloride	< 20.0	ug/L	500	12/19/2016 14:23
Carbon Tetrachloride	< 20.0	ug/L	500	12/19/2016 14:23
Chlorobenzene	< 20.0	ug/L	100000	12/19/2016 14:23
Chlorobenzene	< 20.0	ug/L	100000	12/19/2016 14:23
Chlorobenzene	< 20.0	ug/L	100000	12/19/2016 14:23
Chlorobenzene	< 20.0	ug/L	100000	12/19/2016 14:23
Chloroform	< 20.0	ug/L	6000	12/19/2016 14:23
Chloroform	< 20.0	ug/L	6000	12/19/2016 14:23
Chloroform	< 20.0	ug/L	6000	12/19/2016 14:23
Chloroform	< 20.0	ug/L	6000	12/19/2016 14:23
Tetrachloroethene	< 20.0	ug/L	700	12/19/2016 14:23
Tetrachloroethene	< 20.0	ug/L	700	12/19/2016 14:23
Tetrachloroethene	< 20.0	ug/L	700	12/19/2016 14:23
Tetrachloroethene	< 20.0	ug/L	700	12/19/2016 14:23
Trichloroethene	< 20.0	ug/L	500	12/19/2016 14:23
Trichloroethene	< 20.0	ug/L	500	12/19/2016 14:23
Trichloroethene	< 20.0	ug/L	500	12/19/2016 14:23
Trichloroethene	< 20.0	ug/L	500	12/19/2016 14:23
Vinyl chloride	< 20.0	ug/L	200	12/19/2016 14:23
Vinyl chloride	< 20.0	ug/L	200	12/19/2016 14:23
Vinyl chloride	< 20.0	ug/L	200	12/19/2016 14:23
Vinyl chloride	< 20.0	ug/L	200	12/19/2016 14:23

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 165454

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 80 Steel Street

Sample Identifier: Sample 1-5
Lab Sample ID: 165454-01A **Date Sampled:** 12/16/2016
Matrix: TCLP Extract **Date Received:** 12/16/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**96.7**	85.8 - 116		12/19/2016 14:23
1,2-Dichloroethane-d4	**96.7**	85.8 - 116		12/19/2016 14:23
4-Bromofluorobenzene	**95.3**	80.6 - 114		12/19/2016 14:23
4-Bromofluorobenzene	**95.3**	80.6 - 114		12/19/2016 14:23
Pentafluorobenzene	**103**	89.6 - 112		12/19/2016 14:23
Pentafluorobenzene	**103**	89.6 - 112		12/19/2016 14:23
Toluene-D8	**101**	89.6 - 109		12/19/2016 14:23
Toluene-D8	**101**	89.6 - 109		12/19/2016 14:23

Method Reference(s): EPA 8260C
EPA 1311 / 5030C
Data File: x37872.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: **O'Brien & Gere Engineers, Inc.**

Project Reference: 80 Steel Street

Lab Project ID: 165454

Matrix: Soil

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	<0.327	mg/Kg		12/22/2016 04:39
PCB-1221	<0.327	mg/Kg		12/22/2016 04:39
PCB-1232	<0.327	mg/Kg		12/22/2016 04:39
PCB-1242	<0.327	mg/Kg		12/22/2016 04:39
PCB-1248	<0.327	mg/Kg		12/22/2016 04:39
PCB-1254	**0.227**	mg/Kg	J	12/22/2016 04:39
PCB-1260	<0.327	mg/Kg		12/22/2016 04:39
PCB-1262	<0.327	mg/Kg		12/22/2016 04:39
PCB-1268	<0.327	mg/Kg		12/22/2016 04:39

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**109**	10 - 144		12/22/2016 04:39
Tetrachloro-m-xylene	**98.5**	10 - 140		12/22/2016 04:39

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

Preparation Date: 12/21/2016

QC Batch ID: QC161221PCBS

QC Number: 1

Report Prepared *Thursday, December 22, 2016*

Analytical Report Appendix

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

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

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

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

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

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

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

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

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, tern 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 wi 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 th 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

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:		
CLIENT:	OBG	CLIENT:		LAB PROJECT ID: 165454
ADDRESS:	333 W Washington St	ADDRESS:	Same	Quotation #:
CITY: Syracuse	STATE: NY ZIP 13021	CITY:	STATE: ZIP:	Email:
PHONE:	315 575 0729	PHONE:		
ATTN:	James Cavotta	ATTN:	James.Cavotta@OBG.com	

PROJECT REFERENCE: $ 80 Steel Street

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	TCLP Metals	Reactivity	pH	Total VOCs TCL	Total SVOCs TCL	Total PCBs	Ignitability Flashpoint	REMARKS	PARADIGM LAB SAMPLE NUMBER
12/16/16		X		Sample 1	Oil				X				X	CPL 12/16 1545 matrix soil - run TCLP VOA, SVOA RCRA met, pH, flash, Reactivity PCB OK James Cavotta Paloma 1030 1 day TAT	
12/16/16		X		Sample 2				X						12/21 revised to include PCB Paloma	
12/16/16		X		Sample 3			X							all the same sample	01A
12/16/16		X		Sample 4						X	X	X			
12/16/16		X		Sample 5 - Hold For Future											
					soil per SO MW 12/16/16										
														A for TCLP extract MW 12/16/16	
														4°C 12/16/16 1532	

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☐	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☐
Rush 2 day	☒	Category B	☐		
Rush 1 day	☐				
Other	☒	Other	☐	Other EDD	☐
please indicate date needed: Contact Jaime		please indicate package needed:		please indicate EDD needed :	

Brian Barrett	12/16/16 1330	Total Cost:
Sampled By	Date/Time	
Brian Barrett	12/16/16 1530	
Relinquished By	Date/Time	
Jane Paloma	12/16/16 1536	
Received By	Date/Time	P.I.F.
Mary Wall	12/16/16 1545	
Received @ Lab By	Date/Time	

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: OBG **Completed by:** Molly Vail

Lab Project ID: 165454 **Date:** 12/16/2016

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		
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 12/16/16 15:32		
Sufficient Sample Quantity	x		
Comments			

Serial_No:12201609:53

1661

L1641106

11148

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

CHAIN OF CUSTODY

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:	Reporting	☐ 1 ☐ 2 ☐ 3 ☒ 5	☐
		ATTN:	Accounts Payable		
		COMMENTS:	Please email results to reporting@paradigmenv.com	Date Due: Rush Due 12/20/16 By 3:00pm	

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER OF CONTAINERS	Reactivity										REMARKS	PARADIGM LAB SAMPLE NUMBER
1	12/16/16				165454-01	Soil	1	X											
2																			
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: 2.0 C per Sub Lab		

Client

Sampled By	Date/Time	
Mike Nail	12/16/16	1600
Relinquished By	Date/Time	
[illegible]	12/16/16	15:55
Received By	Date/Time	
[signature]	12/17/16	00:25
Received By	Date/Time	
Received @ Lab By	Date/Time	

Total Cost:

P.I.F.

 JSD 12/20/16