

June 25, 2018

Mr. Larry Regan
President
Regan Development Corporation
1055 Saw Mill River Road #204
Ardsley, NY 10502

REPORT: Supplemental Phase II ESA – 19 Doat Street-9 Lansdale Place

Dear Mr. Regan:

BE3 Corp/Panamerican (BE3) is pleased to provide you with a report documenting the supplemental soil assessment for the 19 Doat Street-9 Lansdale Place property, Buffalo, New York (**refer to Figures 1 and 2**).

INTRODUCTION

During the Brownfield Cleanup Program (BCP) pre-application meeting with New York State Department of Environmental Conservation (NYSDEC) Region 9 staff it was suggested that additional soil samples/analysis was necessary to qualify the 9 Lansdale parcel as part of the project. A series of surface soil samples across the 9 Lansdale Place parcel was proposed to meet this need.

SCOPE OF WORK

The objective of this supplemental environmental assessment was to collect additional soil samples and complete analysis on the 9 Lansdale Place parcel. Sampling was strategically spread across the property.

To achieve this objective, this supplemental site assessment included the collection of ten (10) surface soil samples at designated locations on the target property (**refer to Figure 3**). For context, Figure 3 also shows the soil sample location from the Phase II ESA program. For this supplemental program, soils from each location were collected and submitted to a New York State approved laboratory. Four of these samples were selected for analysis of NYSDEC NYCRR Part 375 semi-volatile compounds and metals and two also were analyzed for volatile compounds based on field observations indicating potential chemical/petroleum impacts. The four samples selected for analysis were spread across the property to ensure a representation of surface soil conditions. The other six samples were placed on hold at the laboratory and not analyzed pending the analytical results of the other four. Based on the results of the four samples surface soil analyzed, these samples were not analyzed.

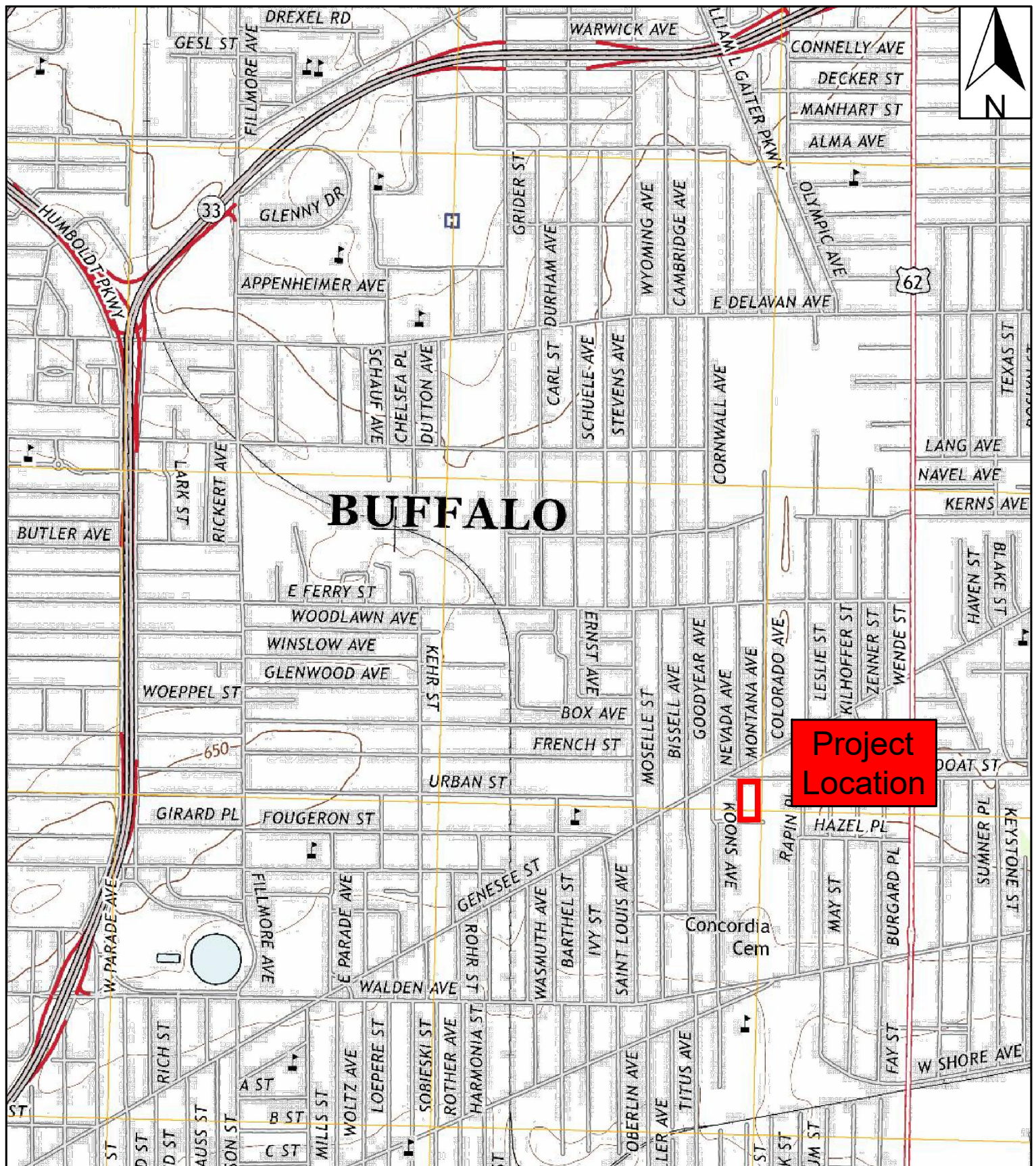


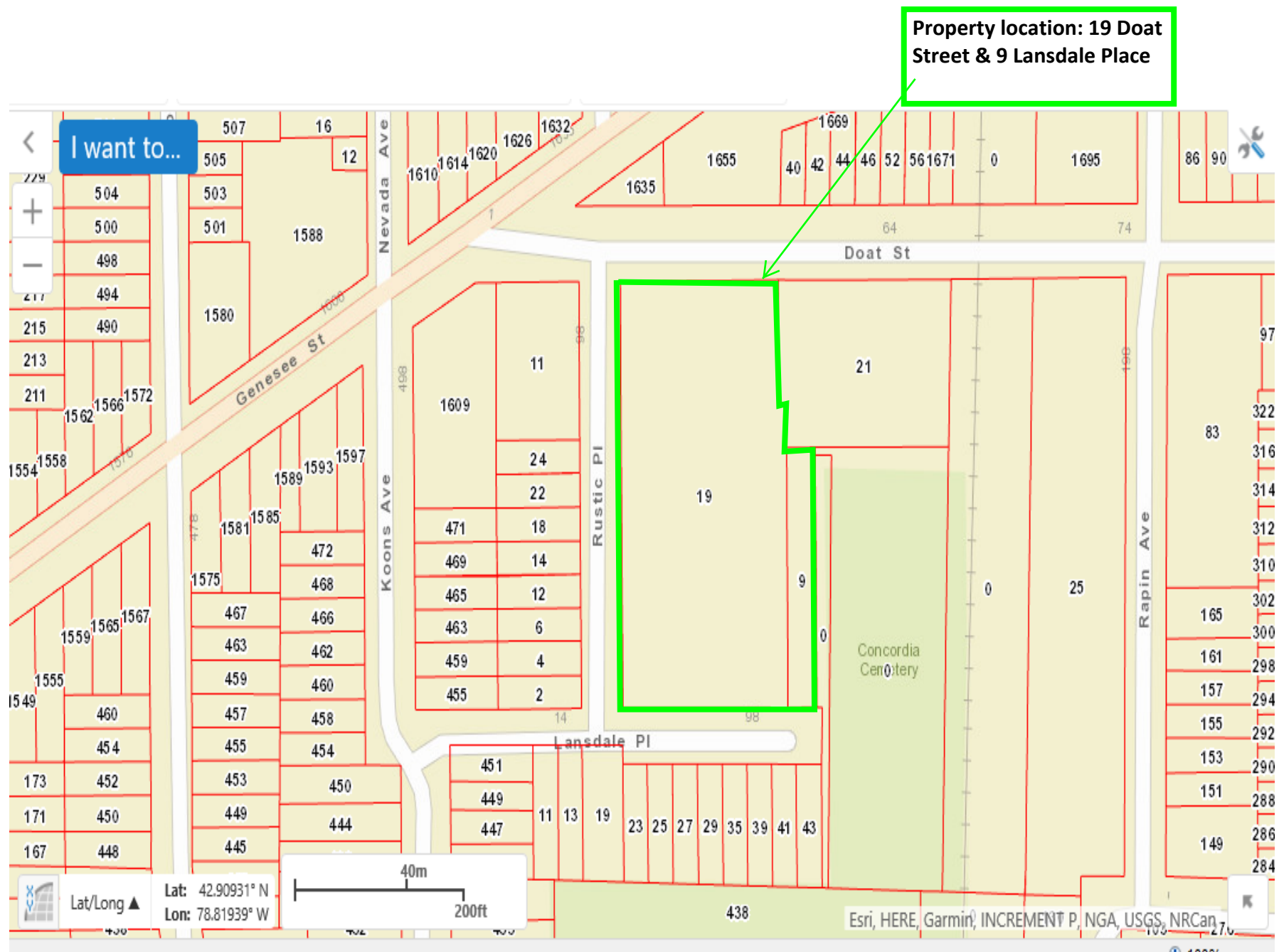
Figure 1: Project Location Map

19 Doat Street

2/26/2018

Buffalo, NY

Regan Development





LEGEND:

- BH-1 Boring/Sampling Location
- SS-1 Surface Soil Sample Location
- S-01 Supplemental Surface Soil Sample Location



1270 Niagara Street
Buffalo, NY 14213
716.249.6880 be3corp.com

01-31-2018

Figure 3: Boring/Sampling Locations

19 Doat Street

Regan Development
1055 Saw Mill River Road #204
Ardsley, NY 10502

SCALE: N/A

SHEET 1 OF 1

Analytical Results

The soil cleanup objectives (SCOs) listed in 6 NYCRR Part 375-6.8 pertain to sites governed under a NYSDEC environmental remediation program, and since the potential exists for the target site to be included under the BCP, these SCOs are applicable and appropriate in terms of reporting exceedances. The results of the analysis of the four surface soil samples (4) are summarized in **Table 1** which also provides a comparison to unrestricted, residential, and restricted residential SCOs in Part 375. The complete set of analytical data are attached.

A summary of the results is as follows:

- All surface soil samples have exceedances of metals above unrestricted levels
- One sample – S-06 had an arsenic level above restricted residential SCOs at 28 ppm.
- All samples except S-06 had multiple SVOC exceedances above restricted residential SCOs. Most of these SVOCs were Polycyclic aromatic hydrocarbons (PAHs). PAHs (also known as polyaromatic hydrocarbons or polynuclear aromatic hydrocarbons).

Metals and PAHs are common contaminants found in urban areas due to years of fossil fuel burning and deposition from the atmosphere. These compounds are also typically associated with fill material used in urban areas and fill materials used around railroads. PAHs are a class of chemicals that occur naturally in coal, crude oil, and gasoline. They also are produced when coal, oil, gas, wood, garbage, and tobacco are burned. PAHs generated from these sources can bind to or form small particles in the air.

CONCLUSIONS

The purpose of this assessment was to identify potential contamination at 9 Lansdale Place parcel as a supplement with the data from the adjacent 19 Doat Street property. Both adjacent properties will be part of a BCP application. The results suggest that surface soils across the 9 Lansdale Place parcel are impacted with elevated levels of metals and PAHs.

WARRANTS AND LIMITATIONS

This report is based on information from limited soil sampling and visual observations of the soils on the property. This report is intended exclusively for the purpose outlined herein at the site location and project indicated.

This report is intended for the sole use of Regan Development and others approved by Regan Development. The scope of services performed in this assessment may not be appropriate to satisfy the needs of other users and any use or reuse of this document or the findings, conclusions, or recommendations presented, is at the sole risk of the user.

Table 1
Soil Sample Analytical Results
NYCRR Part 375
Sampling Date: 6-23-18

Contaminants	Sample Identification and Depth				Soil Cleanup Objectives		
	S-01 (0.5-1')	S-03 (0.5-1')	S-06 (0.5-1')	S-09 (0.5-1')	Unrestricted Use	Residential	Restricted Residential
METALS							
Arsenic	7.78	11	28	4.67	13	16	16
Barium	213	364	99.7	72.8	350	350	400
Beryllium	1.58	1.28	0.788	0.403	7.2	14	72
Cadmium	1.57	1.11	1.73	0.976	2.5	2.5	4.3
Chromium, hexavalent ^a	12.3	10.1	12.3	11.3	1	22	110
Copper	29.1	91.7	87.7	27.5	50	270	270
Lead	98.9	104	205	87.7	63	400	400
Manganese	1060	381	261	306	1600	2,000	2,000
Total Mercury ^c	0.0506	0.0949	0.107	0.0302	0.18	0.81	0.81
Nickel	12.7	11.6	18	10.5	30	140	310
Silver	2.79	2.8	3.38	3.11	2	36	180
Zinc	202	285	277	184	109	2200	10,000
SEMIVOLATILE ORGANIC COMPOUNDS							
Acenaphthene	ND	ND	ND	4.21	20	100	100
Anthracene	3.1	4.2	ND	8.87	100	100	100
Benz(a)anthracene	8.31	19	ND	12	1	1	1
Benzo(a)pyrene	6.85	16.2	ND	15.5	1	1	1
Benzo(b)fluoranthene	9.44	21.8	ND	21.4	1	1	1
Benzo(g,h,i)perylene	4.07	10.4	ND	9.62	100	100	100
Benzo(k)fluoranthene	3.23	8.68	ND	9.73	0.8	1	3.9
Chrysene	8.15	17.7	ND	15.9	1	1	3.9
Fluoranthene	19.7	44.3	ND	33.7	100	100	100
Fluorene	ND	ND	ND	4.48	30	100	100
Indeno(1,2,3-cd)pyrene	4.84	12.4	ND	10.5	0.5	0.5	0.5
Phenanthrene	15	22.8	ND	32.5	100	100	100
Pyrene	15.1	34.9	ND	37	100	100	100
VOLATILE ORGANIC COMPOUNDS							
Tetrachloroethene	ND	ND	0.589	ND	1.3	5.5	19

^a Results and SCOs are in parts per million (ppm).

ND - Non-Detect

NA - Not Applicable

NS - Not Specified, and may be required to calculate the ERSCO

^a The SCO for this compound (or family of compounds) is considered met if the analysis for the total species of this compound is below the specific SCO.

^b SCO is the sum of endosulfan I, endosulfan II, and endosulfan sulfate (but not for Eco or GW SCO).

^c This SCO includes the values for elemental Hg or inorganic salts Hg.

1	= laboratory value exceeds restricted residential SCOs
2	= laboratory value exceeds residential SCOs but does not exceed restricted residential SCOs
3	= laboratory value exceeds unrestricted SCOs but does not exceed residential SCOs

The conclusions set forth in this report are based upon, and limited by, the analytical data and other information available. It should be noted that all surface and subsurface environmental assessments are inherently limited in the sense that conclusions are drawn, and recommendations developed from information obtained from limited data and site evaluation at a specific time. The passage of time may result in a change in environmental circumstances at this site and surrounding properties, or petroleum/hazardous materials beneath the surface may be present but undetectable during this limited Phase II assessment.

Opinions and recommendations presented herein apply to the site conditions existing at the time of the subsurface assessment and those reasonably foreseeable. They cannot necessarily apply to site changes, which are not made aware and therefore not been evaluated.

We thank you for the opportunity to be of assistance to you on this project. Please do not hesitate to contact us if you have any questions or require further assistance.

Sincerely,
Peter J. Gorton
Partner, BE3 Corp/Panamerican



EXHIBIT A

PHOTOGRAPHS



1. Location of supplemental surface soil sample 1



2. Location of supplemental surface soil 1



3. Location of supplemental surface soil sample 2



4. Location of supplemental surface soil sample 1



5. Location of supplemental soil sample 3



6. Location of supplemental surface soil sample 3



7. Location of supplemental surface soil sample 4



8. Location of supplemental surface soil sample 4



9. Location of supplemental surface soil sample 5



10. Location of supplemental surface soil sample 5



11. Supplemental surface soil sample 6



12. Location of supplemental surface soil sample 6



13. Location of supplemental surface soil sample 7



14. Location of supplemental surface soil sample 8



15. Location of supplemental surface soil sample 9



16. Location of supplemental surface soil sample 9



17. Location of supplemental surface soil 10



18. Location of supplemental surface soil 10



EXHIBIT B

LABORATORY DATA



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For
Panamerican Environmental Consultants

For Lab Project ID

182361

Referencing

19 Doat

Prepared

Monday, June 11, 2018

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

A handwritten signature in black ink, appearing to read "R. Robb", is written over a horizontal line.

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

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

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Report Prepared Monday, June 11, 2018

Page 1 of 25

Lab Project ID: 182361

 Client: **Panamerican Environmental Consultants**

Project Reference: 19 Doat

Sample Identifier: S-01 Depth 0.5-1

Lab Sample ID: 182361-01

Date Sampled: 5/25/2018

Matrix: Soil

Date Received: 5/30/2018

Part 375 Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	7.78	mg/Kg		6/9/2018 07:59
Barium	213	mg/Kg		6/9/2018 07:59
Beryllium	1.58	mg/Kg		6/9/2018 07:59
Cadmium	1.57	mg/Kg		6/9/2018 07:59
Chromium	12.3	mg/Kg		6/9/2018 07:59
Copper	29.1	mg/Kg		6/9/2018 07:59
Lead	98.9	mg/Kg		6/9/2018 07:59
Manganese	1060	mg/Kg		6/11/2018 12:19
Nickel	12.7	mg/Kg		6/9/2018 07:59
Selenium	< 2.31	mg/Kg		6/11/2018 12:19
Silver	2.79	mg/Kg		6/9/2018 07:59
Zinc	202	mg/Kg		6/9/2018 07:59

Method Reference(s): EPA 6010C

EPA 3050B

Preparation Date: 6/4/2018

Data File: 180609A

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	0.0506	mg/Kg		6/6/2018 09:35

Method Reference(s): EPA 7471B

Preparation Date: 6/5/2018

Data File: Hg180606A

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 1660	ug/Kg		6/6/2018 07:23
1,2,4,5-Tetrachlorobenzene	< 1660	ug/Kg		6/6/2018 07:23
1,2,4-Trichlorobenzene	< 1660	ug/Kg		6/6/2018 07:23
1,2-Dichlorobenzene	< 1660	ug/Kg		6/6/2018 07:23
1,3-Dichlorobenzene	< 1660	ug/Kg		6/6/2018 07:23

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Client: **Panamerican Environmental Consultants**
Project Reference: 19 Doat

Sample Identifier:	S-01 Depth 0.5-1			
Lab Sample ID:	182361-01		Date Sampled:	5/25/2018
Matrix:	Soil		Date Received:	5/30/2018
1,4-Dichlorobenzene	< 1660	ug/Kg	6/6/2018 07:23	
2,2-Oxybis (1-chloropropane)	< 1660	ug/Kg	6/6/2018 07:23	
2,3,4,6-Tetrachlorophenol	< 1660	ug/Kg	6/6/2018 07:23	
2,4,5-Trichlorophenol	< 3320	ug/Kg	6/6/2018 07:23	
2,4,6-Trichlorophenol	< 1660	ug/Kg	6/6/2018 07:23	
2,4-Dichlorophenol	< 1660	ug/Kg	6/6/2018 07:23	
2,4-Dimethylphenol	< 1660	ug/Kg	6/6/2018 07:23	
2,4-Dinitrophenol	< 3320	ug/Kg	6/6/2018 07:23	
2,4-Dinitrotoluene	< 1660	ug/Kg	6/6/2018 07:23	
2,6-Dinitrotoluene	< 1660	ug/Kg	6/6/2018 07:23	
2-Chloronaphthalene	< 1660	ug/Kg	6/6/2018 07:23	
2-Chlorophenol	< 1660	ug/Kg	6/6/2018 07:23	
2-Methylnapthalene	< 1660	ug/Kg	6/6/2018 07:23	
2-Methylphenol	< 1660	ug/Kg	6/6/2018 07:23	
2-Nitroaniline	< 3320	ug/Kg	6/6/2018 07:23	
2-Nitrophenol	< 1660	ug/Kg	6/6/2018 07:23	
3&4-Methylphenol	< 1660	ug/Kg	6/6/2018 07:23	
3,3'-Dichlorobenzidine	< 1660	ug/Kg	6/6/2018 07:23	
3-Nitroaniline	< 3320	ug/Kg	6/6/2018 07:23	
4,6-Dinitro-2-methylphenol	< 3320	ug/Kg	6/6/2018 07:23	
4-Bromophenyl phenyl ether	< 1660	ug/Kg	6/6/2018 07:23	
4-Chloro-3-methylphenol	< 1660	ug/Kg	6/6/2018 07:23	
4-Chloroaniline	< 1660	ug/Kg	6/6/2018 07:23	
4-Chlorophenyl phenyl ether	< 1660	ug/Kg	6/6/2018 07:23	
4-Nitroaniline	< 3320	ug/Kg	6/6/2018 07:23	
4-Nitrophenol	< 3320	ug/Kg	6/6/2018 07:23	
Acenaphthene	< 1660	ug/Kg	6/6/2018 07:23	
Acenaphthylene	< 1660	ug/Kg	6/6/2018 07:23	
Acetophenone	< 1660	ug/Kg	6/6/2018 07:23	
Anthracene	3100	ug/Kg	6/6/2018 07:23	
Atrazine	< 1660	ug/Kg	6/6/2018 07:23	
Benzaldehyde	< 1660	ug/Kg	6/6/2018 07:23	

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Client: **Panamerican Environmental Consultants**
Project Reference: 19 Doat

Sample Identifier:	S-01 Depth 0.5-1		
Lab Sample ID:	182361-01	Date Sampled:	5/25/2018
Matrix:	Soil	Date Received:	5/30/2018
Benzo (a) anthracene	8310	ug/Kg	6/6/2018 07:23
Benzo (a) pyrene	6850	ug/Kg	6/6/2018 07:23
Benzo (b) fluoranthene	9440	ug/Kg	6/6/2018 07:23
Benzo (g,h,i) perylene	4070	ug/Kg	6/6/2018 07:23
Benzo (k) fluoranthene	3230	ug/Kg	6/6/2018 07:23
Bis (2-chloroethoxy) methane	< 1660	ug/Kg	6/6/2018 07:23
Bis (2-chloroethyl) ether	< 1660	ug/Kg	6/6/2018 07:23
Bis (2-ethylhexyl) phthalate	< 1660	ug/Kg	6/6/2018 07:23
Butylbenzylphthalate	< 1660	ug/Kg	6/6/2018 07:23
Caprolactam	< 1660	ug/Kg	6/6/2018 07:23
Carbazole	2050	ug/Kg	6/6/2018 07:23
Chrysene	8150	ug/Kg	6/6/2018 07:23
Dibenz (a,h) anthracene	< 1660	ug/Kg	6/6/2018 07:23
Dibenzofuran	< 1660	ug/Kg	6/6/2018 07:23
Diethyl phthalate	< 1660	ug/Kg	6/6/2018 07:23
Dimethyl phthalate	< 3320	ug/Kg	6/6/2018 07:23
Di-n-butyl phthalate	< 1660	ug/Kg	6/6/2018 07:23
Di-n-octylphthalate	< 1660	ug/Kg	6/6/2018 07:23
Fluoranthene	19700	ug/Kg	6/6/2018 07:23
Fluorene	< 1660	ug/Kg	6/6/2018 07:23
Hexachlorobenzene	< 1660	ug/Kg	6/6/2018 07:23
Hexachlorobutadiene	< 1660	ug/Kg	6/6/2018 07:23
Hexachlorocyclopentadiene	< 1660	ug/Kg	6/6/2018 07:23
Hexachloroethane	< 1660	ug/Kg	6/6/2018 07:23
Indeno (1,2,3-cd) pyrene	4840	ug/Kg	6/6/2018 07:23
Isophorone	< 1660	ug/Kg	6/6/2018 07:23
Naphthalene	< 1660	ug/Kg	6/6/2018 07:23
Nitrobenzene	< 1660	ug/Kg	6/6/2018 07:23
N-Nitroso-di-n-propylamine	< 1660	ug/Kg	6/6/2018 07:23
N-Nitrosodiphenylamine	< 1660	ug/Kg	6/6/2018 07:23
Pentachlorophenol	< 3320	ug/Kg	6/6/2018 07:23
Phenanthrene	15000	ug/Kg	6/6/2018 07:23

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Lab Project ID: 182361

Client: **Panamerican Environmental Consultants**

Project Reference: 19 Doat

Sample Identifier: S-01 Depth 0.5-1

Lab Sample ID: 182361-01

Date Sampled: 5/25/2018

Matrix: Soil

Date Received: 5/30/2018

Phenol < 1660 ug/Kg 6/6/2018 07:23

Pyrene 15100 ug/Kg 6/6/2018 07:23

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
2,4,6-Tribromophenol	60.9	46 - 109		6/6/2018 07:23
2-Fluorobiphenyl	66.3	37.7 - 103		6/6/2018 07:23
2-Fluorophenol	69.3	39.9 - 92.7		6/6/2018 07:23
Nitrobenzene-d5	63.4	38.7 - 92.2		6/6/2018 07:23
Phenol-d5	71.3	42.2 - 96.1		6/6/2018 07:23
Terphenyl-d14	66.6	69.9 - 113	*	6/6/2018 07:23

Method Reference(s): EPA 8270D
EPA 3550C

Preparation Date: 5/30/2018

Data File: B28150.D

Lab Project ID: 182361

 Client: **Panamerican Environmental Consultants**

Project Reference: 19 Doat

Sample Identifier: S-03 Depth 0.5-1

Lab Sample ID: 182361-02

Date Sampled: 5/25/2018

Matrix: Soil

Date Received: 5/30/2018

Part 375 Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	11.0	mg/Kg		6/9/2018 08:03
Barium	364	mg/Kg		6/9/2018 08:03
Beryllium	1.28	mg/Kg		6/9/2018 08:03
Cadmium	1.11	mg/Kg		6/9/2018 08:03
Chromium	10.1	mg/Kg		6/9/2018 08:03
Copper	91.7	mg/Kg		6/9/2018 08:03
Lead	104	mg/Kg		6/9/2018 08:03
Manganese	381	mg/Kg		6/9/2018 08:03
Nickel	11.6	mg/Kg		6/9/2018 08:03
Selenium	< 2.37	mg/Kg		6/11/2018 12:23
Silver	2.80	mg/Kg		6/9/2018 08:03
Zinc	285	mg/Kg		6/9/2018 08:03

Method Reference(s): EPA 6010C

EPA 3050B

Preparation Date: 6/4/2018

Data File: 180609A

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	0.0949	mg/Kg		6/6/2018 09:38

Method Reference(s): EPA 7471B

Preparation Date: 6/5/2018

Data File: Hg180606A

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 3530	ug/Kg		6/6/2018 07:52
1,2,4,5-Tetrachlorobenzene	< 3530	ug/Kg		6/6/2018 07:52
1,2,4-Trichlorobenzene	< 3530	ug/Kg		6/6/2018 07:52
1,2-Dichlorobenzene	< 3530	ug/Kg		6/6/2018 07:52
1,3-Dichlorobenzene	< 3530	ug/Kg		6/6/2018 07:52

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Client: **Panamerican Environmental Consultants**
Project Reference: 19 Doat

Sample Identifier:	S-03 Depth 0.5-1			
Lab Sample ID:	182361-02		Date Sampled:	5/25/2018
Matrix:	Soil		Date Received:	5/30/2018
1,4-Dichlorobenzene	< 3530	ug/Kg	6/6/2018 07:52	
2,2-Oxybis (1-chloropropane)	< 3530	ug/Kg	6/6/2018 07:52	
2,3,4,6-Tetrachlorophenol	< 3530	ug/Kg	6/6/2018 07:52	
2,4,5-Trichlorophenol	< 7070	ug/Kg	6/6/2018 07:52	
2,4,6-Trichlorophenol	< 3530	ug/Kg	6/6/2018 07:52	
2,4-Dichlorophenol	< 3530	ug/Kg	6/6/2018 07:52	
2,4-Dimethylphenol	< 3530	ug/Kg	6/6/2018 07:52	
2,4-Dinitrophenol	< 7070	ug/Kg	6/6/2018 07:52	
2,4-Dinitrotoluene	< 3530	ug/Kg	6/6/2018 07:52	
2,6-Dinitrotoluene	< 3530	ug/Kg	6/6/2018 07:52	
2-Chloronaphthalene	< 3530	ug/Kg	6/6/2018 07:52	
2-Chlorophenol	< 3530	ug/Kg	6/6/2018 07:52	
2-Methylnapthalene	< 3530	ug/Kg	6/6/2018 07:52	
2-Methylphenol	< 3530	ug/Kg	6/6/2018 07:52	
2-Nitroaniline	< 7070	ug/Kg	6/6/2018 07:52	
2-Nitrophenol	< 3530	ug/Kg	6/6/2018 07:52	
3&4-Methylphenol	< 3530	ug/Kg	6/6/2018 07:52	
3,3'-Dichlorobenzidine	< 3530	ug/Kg	6/6/2018 07:52	
3-Nitroaniline	< 7070	ug/Kg	6/6/2018 07:52	
4,6-Dinitro-2-methylphenol	< 7070	ug/Kg	6/6/2018 07:52	
4-Bromophenyl phenyl ether	< 3530	ug/Kg	6/6/2018 07:52	
4-Chloro-3-methylphenol	< 3530	ug/Kg	6/6/2018 07:52	
4-Chloroaniline	< 3530	ug/Kg	6/6/2018 07:52	
4-Chlorophenyl phenyl ether	< 3530	ug/Kg	6/6/2018 07:52	
4-Nitroaniline	< 7070	ug/Kg	6/6/2018 07:52	
4-Nitrophenol	< 7070	ug/Kg	6/6/2018 07:52	
Acenaphthene	< 3530	ug/Kg	6/6/2018 07:52	
Acenaphthylene	< 3530	ug/Kg	6/6/2018 07:52	
Acetophenone	< 3530	ug/Kg	6/6/2018 07:52	
Anthracene	4200	ug/Kg	6/6/2018 07:52	
Atrazine	< 3530	ug/Kg	6/6/2018 07:52	
Benzaldehyde	< 3530	ug/Kg	6/6/2018 07:52	

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Client: **Panamerican Environmental Consultants**
Project Reference: 19 Doat

Sample Identifier:	S-03 Depth 0.5-1		
Lab Sample ID:	182361-02	Date Sampled:	5/25/2018
Matrix:	Soil	Date Received:	5/30/2018
Benzo (a) anthracene	19000	ug/Kg	6/6/2018 07:52
Benzo (a) pyrene	16200	ug/Kg	6/6/2018 07:52
Benzo (b) fluoranthene	21800	ug/Kg	6/6/2018 07:52
Benzo (g,h,i) perylene	10400	ug/Kg	6/6/2018 07:52
Benzo (k) fluoranthene	8680	ug/Kg	6/6/2018 07:52
Bis (2-chloroethoxy) methane	< 3530	ug/Kg	6/6/2018 07:52
Bis (2-chloroethyl) ether	< 3530	ug/Kg	6/6/2018 07:52
Bis (2-ethylhexyl) phthalate	< 3530	ug/Kg	6/6/2018 07:52
Butylbenzylphthalate	< 3530	ug/Kg	6/6/2018 07:52
Caprolactam	< 3530	ug/Kg	6/6/2018 07:52
Carbazole	< 3530	ug/Kg	6/6/2018 07:52
Chrysene	17700	ug/Kg	6/6/2018 07:52
Dibenz (a,h) anthracene	< 3530	ug/Kg	6/6/2018 07:52
Dibenzofuran	< 3530	ug/Kg	6/6/2018 07:52
Diethyl phthalate	< 3530	ug/Kg	6/6/2018 07:52
Dimethyl phthalate	< 7070	ug/Kg	6/6/2018 07:52
Di-n-butyl phthalate	< 3530	ug/Kg	6/6/2018 07:52
Di-n-octylphthalate	< 3530	ug/Kg	6/6/2018 07:52
Fluoranthene	44300	ug/Kg	6/6/2018 07:52
Fluorene	< 3530	ug/Kg	6/6/2018 07:52
Hexachlorobenzene	< 3530	ug/Kg	6/6/2018 07:52
Hexachlorobutadiene	< 3530	ug/Kg	6/6/2018 07:52
Hexachlorocyclopentadiene	< 3530	ug/Kg	6/6/2018 07:52
Hexachloroethane	< 3530	ug/Kg	6/6/2018 07:52
Indeno (1,2,3-cd) pyrene	12400	ug/Kg	6/6/2018 07:52
Isophorone	< 3530	ug/Kg	6/6/2018 07:52
Naphthalene	< 3530	ug/Kg	6/6/2018 07:52
Nitrobenzene	< 3530	ug/Kg	6/6/2018 07:52
N-Nitroso-di-n-propylamine	< 3530	ug/Kg	6/6/2018 07:52
N-Nitrosodiphenylamine	< 3530	ug/Kg	6/6/2018 07:52
Pentachlorophenol	< 7070	ug/Kg	6/6/2018 07:52
Phenanthrene	22800	ug/Kg	6/6/2018 07:52

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Lab Project ID: 182361

Client: Panamerican Environmental Consultants

Project Reference: 19 Doat

Sample Identifier: S-03 Depth 0.5-1

Lab Sample ID: 182361-02

Date Sampled: 5/25/2018

Matrix: Soil

Date Received: 5/30/2018

Phenol < 3530 ug/Kg 6/6/2018 07:52

Pyrene 34900 ug/Kg 6/6/2018 07:52

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
2,4,6-Tribromophenol	NC	46 - 109		6/6/2018 07:52
2-Fluorobiphenyl	NC	37.7 - 103		6/6/2018 07:52
2-Fluorophenol	NC	39.9 - 92.7		6/6/2018 07:52
Nitrobenzene-d5	NC	38.7 - 92.2		6/6/2018 07:52
Phenol-d5	NC	42.2 - 96.1		6/6/2018 07:52
Terphenyl-d14	NC	69.9 - 113		6/6/2018 07:52

Method Reference(s): EPA 8270D
EPA 3550C

Preparation Date: 5/30/2018

Data File: B28151.D

Lab Project ID: 182361

 Client: **Panamerican Environmental Consultants**

Project Reference: 19 Doat

Sample Identifier: S-06 Depth 0.5-1

Lab Sample ID: 182361-03

Date Sampled: 5/25/2018

Matrix: Soil

Date Received: 5/30/2018

Part 375 Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	28.0	mg/Kg		6/9/2018 08:14
Barium	99.7	mg/Kg		6/9/2018 08:14
Beryllium	0.788	mg/Kg		6/9/2018 08:14
Cadmium	1.73	mg/Kg		6/9/2018 08:14
Chromium	12.3	mg/Kg		6/9/2018 08:14
Copper	87.7	mg/Kg		6/9/2018 08:14
Lead	205	mg/Kg		6/9/2018 08:14
Manganese	261	mg/Kg		6/9/2018 08:14
Nickel	18.0	mg/Kg		6/9/2018 08:14
Selenium	< 1.22	mg/Kg		6/9/2018 08:14
Silver	3.38	mg/Kg		6/9/2018 08:14
Zinc	277	mg/Kg		6/9/2018 08:14

Method Reference(s): EPA 6010C

EPA 3050B

Preparation Date: 6/4/2018

Data File: 180609A

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	0.107	mg/Kg		6/6/2018 09:46

Method Reference(s): EPA 7471B

Preparation Date: 6/5/2018

Data File: Hg180606A

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 1720	ug/Kg		6/2/2018 09:17
1,2,4,5-Tetrachlorobenzene	< 1720	ug/Kg		6/2/2018 09:17
1,2,4-Trichlorobenzene	< 1720	ug/Kg		6/2/2018 09:17
1,2-Dichlorobenzene	< 1720	ug/Kg		6/2/2018 09:17
1,3-Dichlorobenzene	< 1720	ug/Kg		6/2/2018 09:17

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Client: **Panamerican Environmental Consultants**
Project Reference: 19 Doat

Sample Identifier:	S-06 Depth 0.5-1			
Lab Sample ID:	182361-03		Date Sampled:	5/25/2018
Matrix:	Soil		Date Received:	5/30/2018
1,4-Dichlorobenzene	< 1720	ug/Kg	6/2/2018	09:17
2,2-Oxybis (1-chloropropane)	< 1720	ug/Kg	6/2/2018	09:17
2,3,4,6-Tetrachlorophenol	< 1720	ug/Kg	6/2/2018	09:17
2,4,5-Trichlorophenol	< 3450	ug/Kg	6/2/2018	09:17
2,4,6-Trichlorophenol	< 1720	ug/Kg	6/2/2018	09:17
2,4-Dichlorophenol	< 1720	ug/Kg	6/2/2018	09:17
2,4-Dimethylphenol	< 1720	ug/Kg	6/2/2018	09:17
2,4-Dinitrophenol	< 3450	ug/Kg	6/2/2018	09:17
2,4-Dinitrotoluene	< 1720	ug/Kg	6/2/2018	09:17
2,6-Dinitrotoluene	< 1720	ug/Kg	6/2/2018	09:17
2-Chloronaphthalene	< 1720	ug/Kg	6/2/2018	09:17
2-Chlorophenol	< 1720	ug/Kg	6/2/2018	09:17
2-Methylnapthalene	< 1720	ug/Kg	6/2/2018	09:17
2-Methylphenol	< 1720	ug/Kg	6/2/2018	09:17
2-Nitroaniline	< 3450	ug/Kg	6/2/2018	09:17
2-Nitrophenol	< 1720	ug/Kg	6/2/2018	09:17
3&4-Methylphenol	< 1720	ug/Kg	6/2/2018	09:17
3,3'-Dichlorobenzidine	< 1720	ug/Kg	6/2/2018	09:17
3-Nitroaniline	< 3450	ug/Kg	6/2/2018	09:17
4,6-Dinitro-2-methylphenol	< 3450	ug/Kg	6/2/2018	09:17
4-Bromophenyl phenyl ether	< 1720	ug/Kg	6/2/2018	09:17
4-Chloro-3-methylphenol	< 1720	ug/Kg	6/2/2018	09:17
4-Chloroaniline	< 1720	ug/Kg	6/2/2018	09:17
4-Chlorophenyl phenyl ether	< 1720	ug/Kg	6/2/2018	09:17
4-Nitroaniline	< 3450	ug/Kg	6/2/2018	09:17
4-Nitrophenol	< 3450	ug/Kg	6/2/2018	09:17
Acenaphthene	< 1720	ug/Kg	6/2/2018	09:17
Acenaphthylene	< 1720	ug/Kg	6/2/2018	09:17
Acetophenone	< 1720	ug/Kg	6/2/2018	09:17
Anthracene	< 1720	ug/Kg	6/2/2018	09:17
Atrazine	< 1720	ug/Kg	6/2/2018	09:17
Benzaldehyde	< 1720	ug/Kg	6/2/2018	09:17

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Client: **Panamerican Environmental Consultants**
Project Reference: 19 Doat

Sample Identifier:	S-06 Depth 0.5-1		
Lab Sample ID:	182361-03	Date Sampled:	5/25/2018
Matrix:	Soil	Date Received:	5/30/2018
Benzo (a) anthracene	< 1720	ug/Kg	6/2/2018 09:17
Benzo (a) pyrene	< 1720	ug/Kg	6/2/2018 09:17
Benzo (b) fluoranthene	< 1720	ug/Kg	6/2/2018 09:17
Benzo (g,h,i) perylene	< 1720	ug/Kg	6/2/2018 09:17
Benzo (k) fluoranthene	< 1720	ug/Kg	6/2/2018 09:17
Bis (2-chloroethoxy) methane	< 1720	ug/Kg	6/2/2018 09:17
Bis (2-chloroethyl) ether	< 1720	ug/Kg	6/2/2018 09:17
Bis (2-ethylhexyl) phthalate	3070	ug/Kg	6/2/2018 09:17
Butylbenzylphthalate	< 1720	ug/Kg	6/2/2018 09:17
Caprolactam	< 1720	ug/Kg	6/2/2018 09:17
Carbazole	< 1720	ug/Kg	6/2/2018 09:17
Chrysene	< 1720	ug/Kg	6/2/2018 09:17
Dibenz (a,h) anthracene	< 1720	ug/Kg	6/2/2018 09:17
Dibenzofuran	< 1720	ug/Kg	6/2/2018 09:17
Diethyl phthalate	< 1720	ug/Kg	6/2/2018 09:17
Dimethyl phthalate	< 3450	ug/Kg	6/2/2018 09:17
Di-n-butyl phthalate	< 1720	ug/Kg	6/2/2018 09:17
Di-n-octylphthalate	< 1720	ug/Kg	6/2/2018 09:17
Fluoranthene	< 1720	ug/Kg	6/2/2018 09:17
Fluorene	< 1720	ug/Kg	6/2/2018 09:17
Hexachlorobenzene	< 1720	ug/Kg	6/2/2018 09:17
Hexachlorobutadiene	< 1720	ug/Kg	6/2/2018 09:17
Hexachlorocyclopentadiene	< 1720	ug/Kg	6/2/2018 09:17
Hexachloroethane	< 1720	ug/Kg	6/2/2018 09:17
Indeno (1,2,3-cd) pyrene	< 1720	ug/Kg	6/2/2018 09:17
Isophorone	< 1720	ug/Kg	6/2/2018 09:17
Naphthalene	< 1720	ug/Kg	6/2/2018 09:17
Nitrobenzene	< 1720	ug/Kg	6/2/2018 09:17
N-Nitroso-di-n-propylamine	< 1720	ug/Kg	6/2/2018 09:17
N-Nitrosodiphenylamine	< 1720	ug/Kg	6/2/2018 09:17
Pentachlorophenol	< 3450	ug/Kg	6/2/2018 09:17
Phenanthrene	< 1720	ug/Kg	6/2/2018 09:17

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Lab Project ID: 182361
Client: **Panamerican Environmental Consultants**
Project Reference: 19 Doat

Sample Identifier: S-06 Depth 0.5-1

Lab Sample ID: 182361-03

Date Sampled: 5/25/2018

Matrix: Soil

Date Received: 5/30/2018

Phenol	< 1720	ug/Kg	6/2/2018 09:17
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Pyrene	< 1720	ug/Kg	6/2/2018 09:17
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<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
2,4,6-Tribromophenol	80.0	46 - 109		6/2/2018 09:17
2-Fluorobiphenyl	69.0	37.7 - 103		6/2/2018 09:17
2-Fluorophenol	64.0	39.9 - 92.7		6/2/2018 09:17
Nitrobenzene-d5	62.1	38.7 - 92.2		6/2/2018 09:17
Phenol-d5	67.7	42.2 - 96.1		6/2/2018 09:17
Terphenyl-d14	86.7	69.9 - 113		6/2/2018 09:17

Method Reference(s): EPA 8270D

EPA 3550C

Preparation Date: 5/30/2018

Data File: B28055.D

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,1,1-Trichloroethane	< 7.88	ug/Kg		6/6/2018 20:46
1,1,2,2-Tetrachloroethane	< 7.88	ug/Kg		6/6/2018 20:46
1,1,2-Trichloroethane	< 7.88	ug/Kg		6/6/2018 20:46
1,1-Dichloroethane	< 7.88	ug/Kg		6/6/2018 20:46
1,1-Dichloroethene	< 7.88	ug/Kg		6/6/2018 20:46
1,2,3-Trichlorobenzene	< 19.7	ug/Kg		6/6/2018 20:46
1,2,4-Trichlorobenzene	< 19.7	ug/Kg		6/6/2018 20:46
1,2,4-Trimethylbenzene	< 7.88	ug/Kg		6/6/2018 20:46
1,2-Dibromo-3-Chloropropane	< 39.4	ug/Kg		6/6/2018 20:46
1,2-Dibromoethane	< 7.88	ug/Kg		6/6/2018 20:46
1,2-Dichlorobenzene	< 7.88	ug/Kg		6/6/2018 20:46
1,2-Dichloroethane	< 7.88	ug/Kg		6/6/2018 20:46
1,2-Dichloropropane	< 7.88	ug/Kg		6/6/2018 20:46
1,3,5-Trimethylbenzene	< 7.88	ug/Kg		6/6/2018 20:46
1,3-Dichlorobenzene	< 7.88	ug/Kg		6/6/2018 20:46
1,4-Dichlorobenzene	< 7.88	ug/Kg		6/6/2018 20:46
1,4-dioxane	< 78.8	ug/Kg		6/6/2018 20:46

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Client: **Panamerican Environmental Consultants**
Project Reference: 19 Doat

Sample Identifier:	S-06 Depth 0.5-1			
Lab Sample ID:	182361-03		Date Sampled:	5/25/2018
Matrix:	Soil		Date Received:	5/30/2018
2-Butanone	< 39.4	ug/Kg	6/6/2018	20:46
2-Hexanone	< 19.7	ug/Kg	6/6/2018	20:46
4-Methyl-2-pentanone	< 19.7	ug/Kg	6/6/2018	20:46
Acetone	< 39.4	ug/Kg	6/6/2018	20:46
Benzene	< 7.88	ug/Kg	6/6/2018	20:46
Bromochloromethane	< 19.7	ug/Kg	6/6/2018	20:46
Bromodichloromethane	< 7.88	ug/Kg	6/6/2018	20:46
Bromoform	< 19.7	ug/Kg	6/6/2018	20:46
Bromomethane	< 7.88	ug/Kg	6/6/2018	20:46
Carbon disulfide	< 7.88	ug/Kg	6/6/2018	20:46
Carbon Tetrachloride	< 7.88	ug/Kg	6/6/2018	20:46
Chlorobenzene	< 7.88	ug/Kg	6/6/2018	20:46
Chloroethane	< 7.88	ug/Kg	6/6/2018	20:46
Chloroform	< 7.88	ug/Kg	6/6/2018	20:46
Chloromethane	< 7.88	ug/Kg	6/6/2018	20:46
cis-1,2-Dichloroethene	< 7.88	ug/Kg	6/6/2018	20:46
cis-1,3-Dichloropropene	< 7.88	ug/Kg	6/6/2018	20:46
Cyclohexane	< 39.4	ug/Kg	6/6/2018	20:46
Dibromochloromethane	< 7.88	ug/Kg	6/6/2018	20:46
Dichlorodifluoromethane	< 7.88	ug/Kg	6/6/2018	20:46
Ethylbenzene	< 7.88	ug/Kg	6/6/2018	20:46
Freon 113	< 7.88	ug/Kg	6/6/2018	20:46
Isopropylbenzene	< 7.88	ug/Kg	6/6/2018	20:46
m,p-Xylene	< 7.88	ug/Kg	6/6/2018	20:46
Methyl acetate	< 7.88	ug/Kg	6/6/2018	20:46
Methyl tert-butyl Ether	< 7.88	ug/Kg	6/6/2018	20:46
Methylcyclohexane	< 7.88	ug/Kg	6/6/2018	20:46
Methylene chloride	< 19.7	ug/Kg	6/6/2018	20:46
Naphthalene	< 19.7	ug/Kg	6/6/2018	20:46
n-Butylbenzene	< 7.88	ug/Kg	6/6/2018	20:46
n-Propylbenzene	< 7.88	ug/Kg	6/6/2018	20:46
o-Xylene	< 7.88	ug/Kg	6/6/2018	20:46

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Lab Project ID: 182361

Client: **Panamerican Environmental Consultants**

Project Reference: 19 Doat

Sample Identifier: S-06 Depth 0.5-1

Lab Sample ID: 182361-03

Date Sampled: 5/25/2018

Matrix: Soil

Date Received: 5/30/2018

p-Isopropyltoluene	< 7.88	ug/Kg	6/6/2018 20:46
sec-Butylbenzene	< 7.88	ug/Kg	6/6/2018 20:46
Styrene	< 19.7	ug/Kg	6/6/2018 20:46
tert-Butylbenzene	< 7.88	ug/Kg	6/6/2018 20:46
Tetrachloroethene	589	ug/Kg	6/6/2018 20:46
Toluene	< 7.88	ug/Kg	6/6/2018 20:46
trans-1,2-Dichloroethene	< 7.88	ug/Kg	6/6/2018 20:46
trans-1,3-Dichloropropene	< 7.88	ug/Kg	6/6/2018 20:46
Trichloroethene	< 7.88	ug/Kg	6/6/2018 20:46
Trichlorofluoromethane	< 7.88	ug/Kg	6/6/2018 20:46
Vinyl chloride	< 7.88	ug/Kg	6/6/2018 20:46

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	115	77.3 - 129		6/6/2018 20:46
4-Bromofluorobenzene	85.6	71 - 123		6/6/2018 20:46
Pentafluorobenzene	86.6	85.1 - 110		6/6/2018 20:46
Toluene-D8	90.7	82.7 - 112		6/6/2018 20:46

Internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: x51438.D

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

Lab Project ID: 182361

 Client: **Panamerican Environmental Consultants**

Project Reference: 19 Doat

Sample Identifier: S-09 Depth 0.5-1

Lab Sample ID: 182361-04

Date Sampled: 5/25/2018

Matrix: Soil

Date Received: 5/30/2018

Part 375 Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	4.67	mg/Kg		6/9/2018 08:19
Barium	72.8	mg/Kg		6/9/2018 08:19
Beryllium	0.403	mg/Kg		6/9/2018 08:19
Cadmium	0.976	mg/Kg		6/9/2018 08:19
Chromium	11.3	mg/Kg		6/9/2018 08:19
Copper	27.5	mg/Kg		6/9/2018 08:19
Lead	87.7	mg/Kg		6/9/2018 08:19
Manganese	306	mg/Kg		6/9/2018 08:19
Nickel	10.5	mg/Kg		6/9/2018 08:19
Selenium	< 0.954	mg/Kg		6/9/2018 08:19
Silver	3.11	mg/Kg		6/9/2018 08:19
Zinc	184	mg/Kg		6/9/2018 08:19

Method Reference(s): EPA 6010C

EPA 3050B

Preparation Date: 6/4/2018

Data File: 180609A

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	0.0302	mg/Kg		6/6/2018 09:49

Method Reference(s): EPA 7471B

Preparation Date: 6/5/2018

Data File: Hg180606A

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 2910	ug/Kg		6/6/2018 08:21
1,2,4,5-Tetrachlorobenzene	< 2910	ug/Kg		6/6/2018 08:21
1,2,4-Trichlorobenzene	< 2910	ug/Kg		6/6/2018 08:21
1,2-Dichlorobenzene	< 2910	ug/Kg		6/6/2018 08:21
1,3-Dichlorobenzene	< 2910	ug/Kg		6/6/2018 08:21

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Client: **Panamerican Environmental Consultants**
Project Reference: 19 Doat

Sample Identifier:	S-09 Depth 0.5-1		
Lab Sample ID:	182361-04	Date Sampled:	5/25/2018
Matrix:	Soil	Date Received:	5/30/2018
1,4-Dichlorobenzene	< 2910	ug/Kg	6/6/2018 08:21
2,2-Oxybis (1-chloropropane)	< 2910	ug/Kg	6/6/2018 08:21
2,3,4,6-Tetrachlorophenol	< 2910	ug/Kg	6/6/2018 08:21
2,4,5-Trichlorophenol	< 5810	ug/Kg	6/6/2018 08:21
2,4,6-Trichlorophenol	< 2910	ug/Kg	6/6/2018 08:21
2,4-Dichlorophenol	< 2910	ug/Kg	6/6/2018 08:21
2,4-Dimethylphenol	< 2910	ug/Kg	6/6/2018 08:21
2,4-Dinitrophenol	< 5810	ug/Kg	6/6/2018 08:21
2,4-Dinitrotoluene	< 2910	ug/Kg	6/6/2018 08:21
2,6-Dinitrotoluene	< 2910	ug/Kg	6/6/2018 08:21
2-Chloronaphthalene	< 2910	ug/Kg	6/6/2018 08:21
2-Chlorophenol	< 2910	ug/Kg	6/6/2018 08:21
2-Methylnapthalene	< 2910	ug/Kg	6/6/2018 08:21
2-Methylphenol	< 2910	ug/Kg	6/6/2018 08:21
2-Nitroaniline	< 5810	ug/Kg	6/6/2018 08:21
2-Nitrophenol	< 2910	ug/Kg	6/6/2018 08:21
3&4-Methylphenol	< 2910	ug/Kg	6/6/2018 08:21
3,3'-Dichlorobenzidine	< 2910	ug/Kg	6/6/2018 08:21
3-Nitroaniline	< 5810	ug/Kg	6/6/2018 08:21
4,6-Dinitro-2-methylphenol	< 5810	ug/Kg	6/6/2018 08:21
4-Bromophenyl phenyl ether	< 2910	ug/Kg	6/6/2018 08:21
4-Chloro-3-methylphenol	< 2910	ug/Kg	6/6/2018 08:21
4-Chloroaniline	< 2910	ug/Kg	6/6/2018 08:21
4-Chlorophenyl phenyl ether	< 2910	ug/Kg	6/6/2018 08:21
4-Nitroaniline	< 5810	ug/Kg	6/6/2018 08:21
4-Nitrophenol	< 5810	ug/Kg	6/6/2018 08:21
Acenaphthene	4210	ug/Kg	6/6/2018 08:21
Acenaphthylene	< 2910	ug/Kg	6/6/2018 08:21
Acetophenone	< 2910	ug/Kg	6/6/2018 08:21
Anthracene	8870	ug/Kg	6/6/2018 08:21
Atrazine	< 2910	ug/Kg	6/6/2018 08:21
Benzaldehyde	< 2910	ug/Kg	6/6/2018 08:21

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Client: **Panamerican Environmental Consultants**
Project Reference: 19 Doat

Sample Identifier:	S-09 Depth 0.5-1		
Lab Sample ID:	182361-04	Date Sampled:	5/25/2018
Matrix:	Soil	Date Received:	5/30/2018
Benzo (a) anthracene	12000	ug/Kg	6/6/2018 08:21
Benzo (a) pyrene	15500	ug/Kg	6/6/2018 08:21
Benzo (b) fluoranthene	21400	ug/Kg	6/6/2018 08:21
Benzo (g,h,i) perylene	9620	ug/Kg	6/6/2018 08:21
Benzo (k) fluoranthene	9730	ug/Kg	6/6/2018 08:21
Bis (2-chloroethoxy) methane	< 2910	ug/Kg	6/6/2018 08:21
Bis (2-chloroethyl) ether	< 2910	ug/Kg	6/6/2018 08:21
Bis (2-ethylhexyl) phthalate	< 2910	ug/Kg	6/6/2018 08:21
Butylbenzylphthalate	< 2910	ug/Kg	6/6/2018 08:21
Caprolactam	< 2910	ug/Kg	6/6/2018 08:21
Carbazole	4760	ug/Kg	6/6/2018 08:21
Chrysene	15900	ug/Kg	6/6/2018 08:21
Dibenz (a,h) anthracene	< 2910	ug/Kg	6/6/2018 08:21
Dibenzofuran	< 2910	ug/Kg	6/6/2018 08:21
Diethyl phthalate	< 2910	ug/Kg	6/6/2018 08:21
Dimethyl phthalate	< 5810	ug/Kg	6/6/2018 08:21
Di-n-butyl phthalate	< 2910	ug/Kg	6/6/2018 08:21
Di-n-octylphthalate	< 2910	ug/Kg	6/6/2018 08:21
Fluoranthene	33700	ug/Kg	6/6/2018 08:21
Fluorene	4480	ug/Kg	6/6/2018 08:21
Hexachlorobenzene	< 2910	ug/Kg	6/6/2018 08:21
Hexachlorobutadiene	< 2910	ug/Kg	6/6/2018 08:21
Hexachlorocyclopentadiene	< 2910	ug/Kg	6/6/2018 08:21
Hexachloroethane	< 2910	ug/Kg	6/6/2018 08:21
Indeno (1,2,3-cd) pyrene	10500	ug/Kg	6/6/2018 08:21
Isophorone	< 2910	ug/Kg	6/6/2018 08:21
Naphthalene	< 2910	ug/Kg	6/6/2018 08:21
Nitrobenzene	< 2910	ug/Kg	6/6/2018 08:21
N-Nitroso-di-n-propylamine	< 2910	ug/Kg	6/6/2018 08:21
N-Nitrosodiphenylamine	< 2910	ug/Kg	6/6/2018 08:21
Pentachlorophenol	< 5810	ug/Kg	6/6/2018 08:21
Phenanthrene	32500	ug/Kg	6/6/2018 08:21

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Lab Project ID: 182361
Client: **Panamerican Environmental Consultants**
Project Reference: 19 Doat

Sample Identifier:	S-09 Depth 0.5-1		
Lab Sample ID:	182361-04	Date Sampled:	5/25/2018
Matrix:	Soil	Date Received:	5/30/2018

Phenol	< 2910	ug/Kg		6/6/2018 08:21
Pyrene	37000	ug/Kg		6/6/2018 08:21
Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	75.0	46 - 109		6/6/2018 08:21
2-Fluorobiphenyl	71.6	37.7 - 103		6/6/2018 08:21
2-Fluorophenol	12.8	39.9 - 92.7	*	6/6/2018 08:21
Nitrobenzene-d5	34.4	38.7 - 92.2	*	6/6/2018 08:21
Phenol-d5	29.0	42.2 - 96.1	*	6/6/2018 08:21
Terphenyl-d14	102	69.9 - 113		6/6/2018 08:21

Internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8270D

EPA 3550C

Preparation Date: 5/30/2018

Data File: B28152.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 6.71	ug/Kg		6/6/2018 21:10
1,1,2,2-Tetrachloroethane	< 6.71	ug/Kg		6/6/2018 21:10
1,1,2-Trichloroethane	< 6.71	ug/Kg		6/6/2018 21:10
1,1-Dichloroethane	< 6.71	ug/Kg		6/6/2018 21:10
1,1-Dichloroethene	< 6.71	ug/Kg		6/6/2018 21:10
1,2,3-Trichlorobenzene	< 16.8	ug/Kg		6/6/2018 21:10
1,2,4-Trichlorobenzene	< 16.8	ug/Kg		6/6/2018 21:10
1,2,4-Trimethylbenzene	< 6.71	ug/Kg		6/6/2018 21:10
1,2-Dibromo-3-Chloropropane	< 33.6	ug/Kg		6/6/2018 21:10
1,2-Dibromoethane	< 6.71	ug/Kg		6/6/2018 21:10
1,2-Dichlorobenzene	< 6.71	ug/Kg		6/6/2018 21:10
1,2-Dichloroethane	< 6.71	ug/Kg		6/6/2018 21:10
1,2-Dichloropropane	< 6.71	ug/Kg		6/6/2018 21:10
1,3,5-Trimethylbenzene	< 6.71	ug/Kg		6/6/2018 21:10
1,3-Dichlorobenzene	< 6.71	ug/Kg		6/6/2018 21:10
1,4-Dichlorobenzene	< 6.71	ug/Kg		6/6/2018 21:10

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Client: **Panamerican Environmental Consultants**
Project Reference: 19 Doat

Sample Identifier:	S-09 Depth 0.5-1			
Lab Sample ID:	182361-04		Date Sampled:	5/25/2018
Matrix:	Soil		Date Received:	5/30/2018
1,4-dioxane	< 67.1	ug/Kg	6/6/2018	21:10
2-Butanone	< 33.6	ug/Kg	6/6/2018	21:10
2-Hexanone	< 16.8	ug/Kg	6/6/2018	21:10
4-Methyl-2-pentanone	< 16.8	ug/Kg	6/6/2018	21:10
Acetone	< 33.6	ug/Kg	6/6/2018	21:10
Benzene	< 6.71	ug/Kg	6/6/2018	21:10
Bromochloromethane	< 16.8	ug/Kg	6/6/2018	21:10
Bromodichloromethane	< 6.71	ug/Kg	6/6/2018	21:10
Bromoform	< 16.8	ug/Kg	6/6/2018	21:10
Bromomethane	< 6.71	ug/Kg	6/6/2018	21:10
Carbon disulfide	< 6.71	ug/Kg	6/6/2018	21:10
Carbon Tetrachloride	< 6.71	ug/Kg	6/6/2018	21:10
Chlorobenzene	< 6.71	ug/Kg	6/6/2018	21:10
Chloroethane	< 6.71	ug/Kg	6/6/2018	21:10
Chloroform	< 6.71	ug/Kg	6/6/2018	21:10
Chloromethane	< 6.71	ug/Kg	6/6/2018	21:10
cis-1,2-Dichloroethene	< 6.71	ug/Kg	6/6/2018	21:10
cis-1,3-Dichloropropene	< 6.71	ug/Kg	6/6/2018	21:10
Cyclohexane	< 33.6	ug/Kg	6/6/2018	21:10
Dibromochloromethane	< 6.71	ug/Kg	6/6/2018	21:10
Dichlorodifluoromethane	< 6.71	ug/Kg	6/6/2018	21:10
Ethylbenzene	< 6.71	ug/Kg	6/6/2018	21:10
Freon 113	< 6.71	ug/Kg	6/6/2018	21:10
Isopropylbenzene	< 6.71	ug/Kg	6/6/2018	21:10
m,p-Xylene	< 6.71	ug/Kg	6/6/2018	21:10
Methyl acetate	< 6.71	ug/Kg	6/6/2018	21:10
Methyl tert-butyl Ether	< 6.71	ug/Kg	6/6/2018	21:10
Methylcyclohexane	< 6.71	ug/Kg	6/6/2018	21:10
Methylene chloride	< 16.8	ug/Kg	6/6/2018	21:10
Naphthalene	< 16.8	ug/Kg	6/6/2018	21:10
n-Butylbenzene	< 6.71	ug/Kg	6/6/2018	21:10
n-Propylbenzene	< 6.71	ug/Kg	6/6/2018	21:10

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Lab Project ID: 182361

Client: Panamerican Environmental Consultants

Project Reference: 19 Doat

Sample Identifier:	S-09 Depth 0.5-1			
Lab Sample ID:	182361-04		Date Sampled:	5/25/2018
Matrix:	Soil		Date Received:	5/30/2018
o-Xylene	< 6.71	ug/Kg	6/6/2018 21:10	
p-Isopropyltoluene	< 6.71	ug/Kg	6/6/2018 21:10	
sec-Butylbenzene	< 6.71	ug/Kg	6/6/2018 21:10	
Styrene	< 16.8	ug/Kg	6/6/2018 21:10	
tert-Butylbenzene	< 6.71	ug/Kg	6/6/2018 21:10	
Tetrachloroethene	< 6.71	ug/Kg	6/6/2018 21:10	
Toluene	< 6.71	ug/Kg	6/6/2018 21:10	
trans-1,2-Dichloroethene	< 6.71	ug/Kg	6/6/2018 21:10	
trans-1,3-Dichloropropene	< 6.71	ug/Kg	6/6/2018 21:10	
Trichloroethene	< 6.71	ug/Kg	6/6/2018 21:10	
Trichlorofluoromethane	< 6.71	ug/Kg	6/6/2018 21:10	
Vinyl chloride	< 6.71	ug/Kg	6/6/2018 21:10	
Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	128	77.3 - 129		6/6/2018 21:10
4-Bromofluorobenzene	80.1	71 - 123		6/6/2018 21:10
Pentafluorobenzene	86.6	85.1 - 110		6/6/2018 21:10
Toluene-D8	75.2	82.7 - 112	*	6/6/2018 21:10

Internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: x51439.D

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



Analytical Report Appendix

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

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

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

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

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

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

"<" = Analyzed for but not detected at or above the quantitation limit.

"E" = Result has been estimated, calibration limit exceeded.

"Z" = See case narrative.

"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.

"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.

"B" = Method blank contained trace levels of analyte. Refer to included method blank report.

"J" = Result estimated between the quantitation limit and half the quantitation limit.

"L" = Laboratory Control Sample recovery outside accepted QC limits.

"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.

"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.

"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*

"(1)" = Indicates data from primary column used for QC calculation.

"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.

"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

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GENERAL TERMS AND CONDITIONS

LABORATORY SERVICES

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

Warranty.

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

Scope and Compensation.

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

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

Prices.

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

Limitations of Liability.

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

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

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

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

Hazard Disclosure.

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

Sample Handling.

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

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

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

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

Legal Responsibility.

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

Assignment.

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

Force Majeure.

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

Law.

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

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CHAIN OF CUSTODY

10/2

PARADIGM
INTERNATIONAL SERVICES, INC.

REPORT TO:

INVOICE TO:

LAB PROJECT ID

182361

Quotation #:

Email:

CLIENT: BES CORP / BATHWATER

ADDRESS: 1870 KATYDOR ST

CITY: BUFFALO STATE: NY ZIP: 14213

PHONE: 716-309-8220

ATTN: PETER J. GORTON

PROJECT REFERENCE

19 BATH

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	GARB	SAMPLE IDENTIFIER	MCATRES	NOBAINORS	REMARKS	PARADIGM LAB SAMPLE NUMBER
5-25-18	815	X		5-01 0.5-1	50	1	375 SVOC; 375 METALS 375 VOC'S CPS	01
	830					1	HOLD	
	835			5-03		1	HOLD	02
	845			5-04		1	HOLD	
	850			5-05		1	HOLD	03
	900			5-06		1	HOLD	
	910			5-07		1	HOLD	
	920			5-08		1	HOLD	
	930			5-09		1	HOLD	04
	945			5-10		1	HOLD	

Turnaround Time

Report Supplements

Availability contingent upon lab approval; additional fees may apply.

Standard 5 day

☐

None Required

☐

Batch QC

☐

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 please indicate package needed:

☐
☐

Other EDD

☐

Other EDD please indicate EDD needed:

☐

Sampled By: Peter J. Gorton Date/Time: 5-25-18 8:00-10:00 AM
Retrieved By: Peter J. Gorton Date/Time: 5-25-18 11:45
Received By: Emily Jackson Date/Time: 5-25-18 11:45
Received @ Lab By: 5-29-18 15:45
Total Cost: 11:21

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



Chain of Custody Supplement

Client: Panamerican Environmental Completed by: Emily Jackson

Lab Project ID: 182361 Date: 5/30/18

Sample Condition Requirements

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

Condition	Yes	No	N/A
Container Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> 5035	<input type="checkbox"/>
Comments	<hr/>		
Transferred to method-compliant container	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Headspace (<1 mL)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	<hr/>		
Preservation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	<hr/>		
Chlorine Absent (<0.10 ppm per test strip)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	<hr/>		
Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	<hr/>		
Temperature	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> metals
Comments	<u>5°C iced</u> <hr/>		
Sufficient Sample Quantity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	<hr/>		