September 23, 2019



Mr. Frank Chinnici Legacy Development 250 Ramsdell Avenue Buffalo, NY 14216

Re: Phase II Environmental Investigation

8 St. Louis Place Buffalo, New York

Dear Mr. Chinnici:

TurnKey Environmental Restoration, LLC (TurnKey) has prepared this report to present the results of a Phase II Environmental Investigation performed at 8 St. Louis Place in the City of Buffalo, New York (Site). A Site Location and Vicinity Map is provided as Figure 1.

BACKGROUND

TurnKey completed a Phase I Environmental Site Assessment (ESA) at the Site in April 2018. Historically, the Site was developed with multiple residential structures until after 1986, when the buildings were demolished, and the Site was converted into an asphalt parking lot. The Phase I ESA noted that urban fill was likely present at the Site in the area of the former residential structures to fill the former building foundations to grade after demolition. Elevated levels of metals and polycyclic aromatic hydrocarbons (PAHs) are commonly found in urban fill material; therefore, a Phase II Environmental Investigation was completed to confirm the presence of urban fill and any associated contamination on-Site.

INVESTIGATION ACTIVITIES

On September 11, 2019, three (3) shallow test pits identified as TP-1, TP-2, and TP-3, were completed to approximately 2 feet below ground surface (fbgs) using a mini-excavator on the west, middle, and east end of the Site, respectively. Three (3) additional deeper test pits, identified as TP-4, TP-5, and TP-6, were completed using a mini-excavator to approximately 7 fbgs to further characterize the fill material in the on September 17, 2019. Test pit locations are shown on Figure 2. One (1) sample was collected from the fill material within each test pit; samples TP-1 through TP-3 were collected from 0.5 to 2.0 fbgs and samples TP-4 through TP-6 were collected from 0.5 to 6.0 fbgs. The soil/fill samples were screened for volatile organics using a MiniRae 3000 photoionization detector (PID), visual characteristics for each sample were classified using the ASTM D2488 Visual-Manual Procedure Description, and olfactory observations, if any, were noted.

The soil/fill samples were submitted to the laboratory for analysis of Environmental Protection Agency (EPA) Method 8270D PAHs and Resource Conservation and Recovery

Act (RCRA) 8 Metals (EPA Method 6010D and 7471B). All samples were collected in laboratory provided sample bottles and were cooled to 40 C prior to transport.

FIELD OBSERVATIONS AND FINDINGS

In general, urban fill consisting of fine brick pieces, asphalt, stone, and metal was observed from the ground surface or below asphalt to approximately 6 fbgs. Native soil, consisting of dry brown medium to coarse sand, was observed underlying the urban fill. At one location (TP-2) a concrete slab was observed overlying the fill material. See the table below for a summary of the investigation locations.

No elevated PID readings or olfactory concerns were noted during the work. Photographs taken during the work are included in Appendix A.

| Investigation Location ID | Description | Sample Depth |
|------------------------------|---|--------------|
| TP-1 | 0-2' - Fill Material | 0.5-2.0 fbgs |
| TP-2 | 0-0.5' - Asphalt 0.5-1'- Concrete slab 1-2'- Fill Material | 0.5-2.0 fbgs |
| TP-3 | 0-0.5' - Asphalt 0.5-2'- Fill Material | 0.5-2.0 fbgs |
| TP-4 | 0-0.5' - Asphalt 0.5-6' - Fill Material 6-7' - Native brown, dry, medium to coarse sand | 0.5-6.0 fbgs |
| TP-5 | 0-0.5' - Asphalt 0.5-6' - Fill Material 6-7' - Native brown, dry, medium to coarse sand | 0.5-6.0 fbgs |
| TP-6 | 0-0.5' - Asphalt 0.5-6' - Fill Material 6-7' - Native brown, dry, medium to coarse sand | 0.5-6.0 fbgs |

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results were provided by Alpha Analytical in two reports dated September 13, 2019, and September 20, 2019. Both analytical reports are provided in Appendix B. Analytical results were compared to 6 NYCRR Part 375 Unrestricted use Soil Cleanup Objectives (USCOs) and Restricted-Residential use Soil Cleanup Objectives (RRSCOs).

As summarized on Table 1, PAHs including Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, and Indeno(1,2,3-cd)pyrene were detected above their respective USCOs and/or RRSCOs at five (5) test pit locations (TP-1, TP-2, TP-4, TP-5, and TP-6). Lead was detected above its RRSCO at three (3) test pits (TP-2, TP-4, and TP-6), and above its USCO at two locations (TP-3 and



TP-5). Mercury was detected above its USCO at four test pit locations (TP-2, TP-3, TP-5, and TP-6).

CONCLUSIONS

We understand the subject property is being considered for redevelopment in a residential reuse scenario. The least restrictive applicable SCOs to attain would be RRSCOs, based on the planned use of the Site. Based on the findings detailed above, the Site is a potential candidate for the New York State Brownfield Cleanup Program (BCP). Regardless of whether the BCP is pursued, PAHs- and metals-impacted fill materials present on-Site will require exposure control, remediation, and/or proper soil management either prior to or during the redevelopment project.

DECLARATIONS/LIMITATIONS

This report has been prepared for the exclusive use of Legacy Development. The contents of this report are limited to information available at the time of the subject site investigation. Data provided by others as referenced herein is assumed to be accurate and reliable. The findings herein may be relied upon only at the discretion of Legacy Development and are limited to the terms and conditions identified in the agreement between TurnKey and its client. Use of or reliance upon this report or its findings by any other person or entity is prohibited without written permission of TurnKey Environmental Restoration, LLC.

Please contact us if you have any questions or require additional information.

Sincerely,

TurnKey Environmental Restoration, LLC

Michael A. Lesakowski

Principal

Bryan W. Mayback Sr. Project Scientist

Bryan W. Mayback



TABLE





TABLE 1 SUMMARY OF SOIL/FILL ANALYTICAL DATA

8 SAINT LOUIS PLACE BUFFALO, NEW YORK

| | | Restricted | | | Sample | Location | | |
|--------------------------------|-----------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| PARAMETER 1 | Unrestricted | Residential | TP-1 | TP-2 | TP-3 | TP-4 | TP-5 | TP-6 |
| PARAMETER | Use SCOs 2 | | (0.5-2.0 fbgs) | (0.5-2.0 fbgs) | (0.5-2.0 fbgs) | (0.5-6.0 fbgs) | (0.5-6.0 fbgs) | (0.5-6.0 fbgs) |
| | | Use SCOs 2 | 9/11/2019 | 9/11/2019 | 9/11/2019 | 9/17/2019 | 9/17/2019 | 9/17/2019 |
| Polycyclic Aromatic Hydrocarbo | ons (PAHs) - mg | /Kg ³ | | | | | | |
| Acenaphthene | 20 | 100 | 1.1 | 0.23 | 0.023 J | 0.28 J | 0.34 J | 0.1 J |
| Acenaphthylene | 100 | 100 | ND | 0.14 | 0.037 J | 0.28 J | ND | 0.21 J |
| Anthracene | 100 | 100 | 2.8 | 0.42 | 0.063 J | 0.68 | 0.5 | 0.35 |
| Benzo(a)anthracene | 1 | 1 | 6.7 | 2.4 | 0.32 | 3.1 | 2.5 | 0.98 |
| Benzo(a)pyrene | 1 | 1 | 7.3 | 2.7 | 0.35 | 3.5 | 2.4 | 0.91 |
| Benzo(b)fluoranthene | 1 | 1 | 9.4 | 3.7 | 0.5 | 4.8 | 3.7 | 1.3 |
| Benzo(ghi)perylene | 100 | 100 | 5.4 | 2.1 | 0.28 | 2.8 | 1.6 | 0.64 |
| Benzo(k)fluoranthene | 0.8 | 3.9 | 3.2 | 1.3 | 0.17 | 1.6 | 1 | 0.34 |
| Chrysene | 1 | 3.9 | 6.7 | 2.5 | 0.35 | 3.1 | 2.6 | 0.92 |
| Dibenzo(a,h)anthracene | 0.33 | 0.33 | 1.1 | 0.48 | 0.074 J | 0.61 | 0.44 | 0.14 J |
| Fluoranthene | 100 | 100 | 17 | 4.6 | 0.67 | 6.4 | 5.5 | 2.1 |
| Fluorene | 30 | 100 | 1.2 | 0.14 J | 0.023 J | 0.22 J | 0.22 J | 0.11 J |
| Indeno(1,2,3-cd)pyrene | 0.5 | 0.5 | 5.7 | 2.2 | 0.28 | 2.7 | 1.6 | 0.64 |
| Naphthalene | 12 | 100 | 0.5 J | 0.059 J | 0.022 J | 0.11 J | 0.066 J | 0.081 J |
| Phenanthrene | 100 | 100 | 12 | 2.1 | 0.38 | 3 | 2.8 | 1.2 |
| Pyrene | 100 | 100 | 14 | 3.9 | 0.55 | 5.2 | 4.3 | 1.8 |
| Metals - mg/Kg | | | | | | | | |
| Arsenic | 13 | 16 | 6.22 | 7.62 | 4.95 | 5.88 | 3.34 | 10.7 |
| Barium | 350 | 400 | 165 | 155 | 57.3 | 142 | 36.3 | 139 |
| Cadmium | 2.5 | 4.3 | 0.29 J | 0.66 J | 0.638 | 0.654 J | 0.165 J | 0.099 J |
| Chromium | 30 | 180 | 6.35 | 7.56 | 7.31 | 5.87 | 4.33 | 5.79 |
| Lead | 63 | 400 | 29.2 | 459 | 186 | 680 | 105 | 528 |
| Mercury | 0.18 | 0.81 | 0.097 | 0.307 | 0.318 | 0.17 | 0.278 | 0.483 |
| Selenium | 3.9 | 180 | 2.82 J | 1.51 J | 0.186 J | 0.23 J | ND | 0.513 J |
| Silver | 2 | 180 | ND | ND | ND | ND | ND | 0.125 J |

Notes:

- 1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
- 2. Values per 6NYCRR Part 375 Soil Cleanup Objectives (SCOs).
- 3. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparisons to SCOs

Definitions:

ND = Parameter not detected above laboratory detection limit.

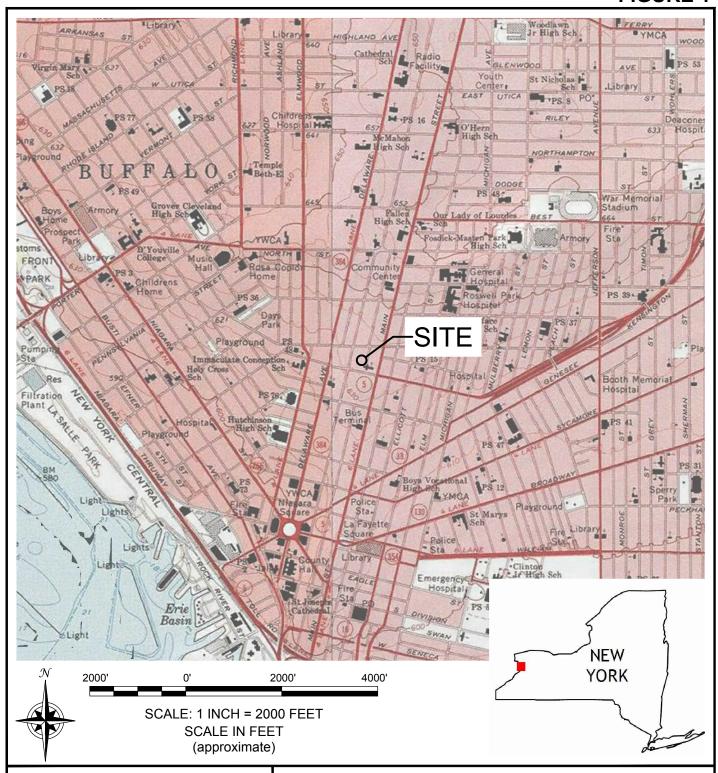
J = Estimated value; result is less than the sample quantitation limit but greater than zero.

| Bold | = Result exceeds Unrestricted Use SCOs. |
|------|---|
| Bold | = Result exceeds Restricted Residential Use SCOs. |

FIGURES



FIGURE 1





2558 HAMBURG TURNPIKE SUITE 300 BUFFALO, NY 14218 (716) 856-0635

PROJECT NO.: T0395-018-001

DATE: SEPTEMBER 2019

DRAFTED BY: CEH

SITE LOCATION AND VICINITY MAP

PHASE II ENVIRONMENTAL INVESTIGATION

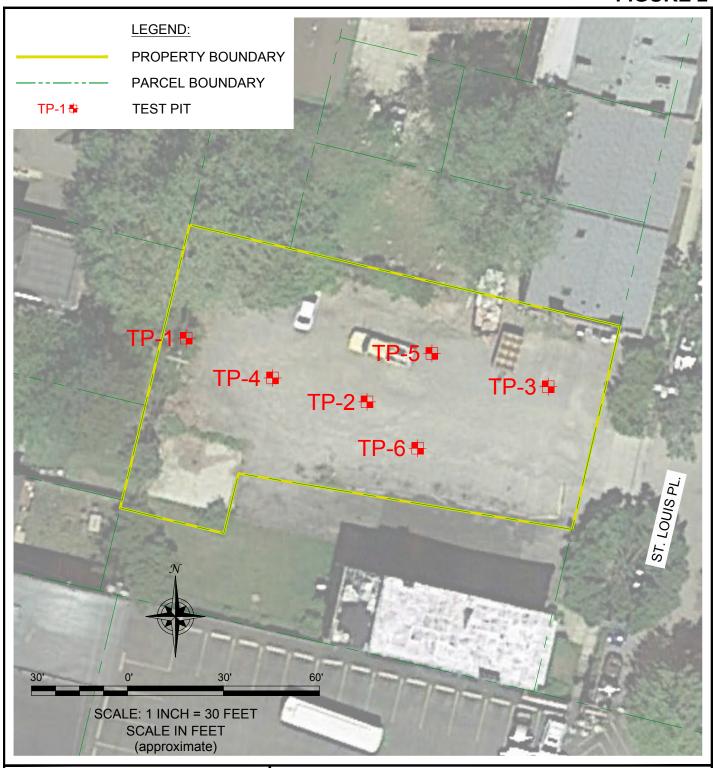
8 SAINT LOUIS PLACE
BUFFALO, NEW YORK

PREPARED FOR

LEGACY DEVELOPMENT

DISCLAIMER

PROPERTY OF TURNKEY ENVIRONMENTAL RESTORATION, LLC. IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS & SUPPLIERS WITHOUT THE WRITTEN CONSENT OF TURNKEY ENVIRONMENTAL RESTORATION, LLC.





2558 HAMBURG TURNPIKE SUITE 300 BUFFALO, NY 14218 (716) 856-0635

PROJECT NO.: T0395-018-001

DATE: SEPTEMBER 2019

DRAFTED BY: CEH

SITE PLAN WITH TEST PIT LOCATIONS

PHASE II ENVIRONMENTAL INVESTIGATION

8 SAINT LOUIS PLACE
BUFFALO, NEW YORK

PREPARED FOR

LEGACY DEVELOPMENT

DISCLAIMER:

PROPERTY OF TURNKEY ENVIRONMENTAL RESTORATION, LLC. IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS & SUPPLIERS WITHOUT THE WRITTEN CONSENT OF TURNKEY ENVIRONMENTAL RESTORATION, LLC.

APPENDIX A

Рното Log



SITE PHOTOGRAPHS

Photo 1:



Photo 3:



Photo 2:



Photo 4:



Photo 1: View of test pit excavation facing north.

Photo 2: View of the excavated fill.

Photo 3: View of TP-4 facing west.

Photo 4: View of the urban fill in sample TP-4

8 Saint Louis Place Buffalo, New York

Photo Date: 9/17/19



APPENDIX B

LABORATORY ANALYTICAL REPORTS





ANALYTICAL REPORT

Lab Number: L1941419

Client: Benchmark & Turnkey Companies

2558 Hamburg Turnpike

Suite 300

Buffalo, NY 14218

ATTN: Mike Lesakowski Phone: (716) 856-0599

Project Name: LEGACY DEVELOPMENT

Project Number: T0105-019-014

Report Date: 09/13/19

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

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

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



Project Name: LEGACY DEVELOPMENT

Project Number: T0105-019-014

Lab Number:

L1941419

Report Date: 09/13/19

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|--------------------|-----------|--------|--------------------|-------------------------|--------------|
| L1941419-01 | TP-1 | SOIL | 8 ST. LOUIS PLACE | 09/11/19 10:00 | 09/11/19 |
| L1941419-02 | TP-2 | SOIL | 8 ST. LOUIS PLACE | 09/11/19 10:05 | 09/11/19 |
| L1941419-03 | TP-3 | SOIL | 8 ST. LOUIS PLACE | 09/11/19 10:10 | 09/11/19 |



L1941419

Lab Number:

Project Name: LEGACY DEVELOPMENT

Project Number: T0105-019-014 **Report Date:** 09/13/19

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

| Please contact Project Management at 800-624-9220 with any questions. | |
|---|--|
| | |



Project Name:LEGACY DEVELOPMENTLab Number:L1941419Project Number:T0105-019-014Report Date:09/13/19

Case Narrative (continued)

Report Submission

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

Total Metals

L1941419-01 and -02: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG1283663-3 MS recovery, performed on L1941419-01, is outside the acceptance criteria for chromium (74%). A post digestion spike was performed and was within acceptance criteria.

The WG1283663-3 MS recovery, performed on L1941419-01, is outside the acceptance criteria for arsenic (65%). A post digestion spike was performed and yielded an unacceptable recovery for arsenic (124%). The serial dilution recovery was not applicable; therefore, this element fails the matrix test and the result reported in the native sample should be considered estimated.

The WG1283654-3 MS recovery, performed on L1941419-01, is outside the acceptance criteria for mercury (62%). A post digestion spike was performed and was within acceptance criteria.

The WG1283663-4 Laboratory Duplicate RPD for arsenic (52%), performed on L1941419-01, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

The WG1283654-4 Laboratory Duplicate RPD for mercury (35%), performed on L1941419-01, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

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

Authorized Signature:

Title: Technical Director/Representative Date: 09/13/19

Melissa Sturgis Melissa Sturgis

ORGANICS



SEMIVOLATILES



L1941419

Project Name: LEGACY DEVELOPMENT

Project Number: T0105-019-014

SAMPLE RESULTS

Report Date: 09/13/19

Lab Number:

Lab ID: D L1941419-01

Client ID: TP-1

Sample Location: 8 ST. LOUIS PLACE

Sample Depth:

Matrix: Soil Analytical Method: 1,8270D Analytical Date: 09/13/19 16:20

Analyst: JG 94% Percent Solids:

Date Collected: 09/11/19 10:00

Date Received: 09/11/19

Field Prep: Not Specified

Extraction Method: EPA 3546 **Extraction Date:** 09/12/19 17:09

| Semivolatile Organics by GC/MS - Westborough Lab Acenaphthene 1100 ug/kg 710 92. Fluoranthene 17000 ug/kg 530 100 Naphthalene 500 J ug/kg 890 110 Benzo(a)anthracene 6700 ug/kg 530 100 | 5 5 5 |
|---|-------------|
| Fluoranthene 17000 ug/kg 530 100 Naphthalene 500 J ug/kg 890 110 | 5 |
| Naphthalene 500 J ug/kg 890 110 | |
| - | 5 |
| Benzo(a)anthracene 6700 ug/kg 530 100 | |
| | 5 |
| Benzo(a)pyrene 7300 ug/kg 710 220 | 5 |
| Benzo(b)fluoranthene 9400 ug/kg 530 150 | 5 |
| Benzo(k)fluoranthene 3200 ug/kg 530 140 | 5 |
| Chrysene 6700 ug/kg 530 92. | 5 |
| Acenaphthylene ND ug/kg 710 140 | 5 |
| Anthracene 2800 ug/kg 530 170 | 5 |
| Benzo(ghi)perylene 5400 ug/kg 710 100 | 5 |
| Fluorene 1200 ug/kg 890 86. | 5 |
| Phenanthrene 12000 ug/kg 530 110 | 5 |
| Dibenzo(a,h)anthracene 1100 ug/kg 530 100 | 5 |
| Indeno(1,2,3-cd)pyrene 5700 ug/kg 710 120 | 5 |
| Pyrene 14000 ug/kg 530 88. | 5 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | |
|------------------|------------|-----------|------------------------|--|
| Nitrobenzene-d5 | 28 | | 23-120 | |
| 2-Fluorobiphenyl | 25 | Q | 30-120 | |
| 4-Terphenyl-d14 | 23 | | 18-120 | |



Project Name: LEGACY DEVELOPMENT

Project Number: T0105-019-014

SAMPLE RESULTS

Report Date:

09/13/19

Lab ID: L1941419-02

Client ID: TP-2

Sample Location: 8 ST. LOUIS PLACE Date Received: Field Prep:

Date Collected:

09/11/19 10:05 09/11/19

L1941419

Lab Number:

Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8270D

Analytical Date: Analyst:

Percent Solids:

09/13/19 11:55

IM

90%

Extraction Method: EPA 3546

Extraction Date: 09/12/19 17:09

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | | |
|--|--------|-----------|-------|-----|-----|-----------------|--|--|
| Semivolatile Organics by GC/MS - Westborough Lab | | | | | | | | |
| Acenaphthene | 230 | | ug/kg | 140 | 19. | 1 | | |
| Fluoranthene | 4600 | | ug/kg | 110 | 21. | | | |
| Naphthalene | 59 | J | ug/kg | 180 | 22. | 1 | | |
| Benzo(a)anthracene | 2400 | | ug/kg | 110 | 20. | 1 | | |
| Benzo(a)pyrene | 2700 | | ug/kg | 140 | 44. | 1 | | |
| Benzo(b)fluoranthene | 3700 | | ug/kg | 110 | 30. | 1 | | |
| Benzo(k)fluoranthene | 1300 | | ug/kg | 110 | 29. | 1 | | |
| Chrysene | 2500 | | ug/kg | 110 | 19. | 1 | | |
| Acenaphthylene | 140 | | ug/kg | 140 | 28. | 1 | | |
| Anthracene | 420 | | ug/kg | 110 | 35. | 1 | | |
| Benzo(ghi)perylene | 2100 | | ug/kg | 140 | 21. | 1 | | |
| Fluorene | 140 | J | ug/kg | 180 | 18. | 1 | | |
| Phenanthrene | 2100 | | ug/kg | 110 | 22. | 1 | | |
| Dibenzo(a,h)anthracene | 480 | | ug/kg | 110 | 21. | 1 | | |
| Indeno(1,2,3-cd)pyrene | 2200 | | ug/kg | 140 | 25. | 1 | | |
| Pyrene | 3900 | | ug/kg | 110 | 18. | 1 | | |

| Surrogate | % Recovery | Acceptance Qualifier Criteria | |
|------------------|------------|----------------------------------|--|
| Nitrobenzene-d5 | 67 | 23-120 | |
| 2-Fluorobiphenyl | 58 | 30-120 | |
| 4-Terphenyl-d14 | 52 | 18-120 | |



L1941419

Lab Number:

Project Name: LEGACY DEVELOPMENT

Project Number: Report Date: T0105-019-014

09/13/19

SAMPLE RESULTS

Lab ID: Date Collected: 09/11/19 10:10 L1941419-03

Date Received: Client ID: TP-3 09/11/19

Sample Location: 8 ST. LOUIS PLACE Field Prep: Not Specified

Sample Depth:

Percent Solids:

91%

Extraction Method: EPA 3546 Matrix: Soil **Extraction Date:** 09/12/19 17:09 Analytical Method: 1,8270D

Analytical Date: 09/13/19 12:19 Analyst: IM

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | | |
|--|--------|-----------|-------|-----|-----|-----------------|--|--|
| Semivolatile Organics by GC/MS - Westborough Lab | | | | | | | | |
| Acenaphthene | 23 | J | ug/kg | 140 | 19. | 1 | | |
| Fluoranthene | 670 | | ug/kg | 110 | 21. | 1 | | |
| Naphthalene | 22 | J | ug/kg | 180 | 22. | 1 | | |
| Benzo(a)anthracene | 320 | | ug/kg | 110 | 20. | 1 | | |
| Benzo(a)pyrene | 350 | | ug/kg | 140 | 44. | 1 | | |
| Benzo(b)fluoranthene | 500 | | ug/kg | 110 | 30. | 1 | | |
| Benzo(k)fluoranthene | 170 | | ug/kg | 110 | 29. | 1 | | |
| Chrysene | 350 | | ug/kg | 110 | 19. | 1 | | |
| Acenaphthylene | 37 | J | ug/kg | 140 | 28. | 1 | | |
| Anthracene | 63 | J | ug/kg | 110 | 35. | 1 | | |
| Benzo(ghi)perylene | 280 | | ug/kg | 140 | 21. | 1 | | |
| Fluorene | 23 | J | ug/kg | 180 | 18. | 1 | | |
| Phenanthrene | 380 | | ug/kg | 110 | 22. | 1 | | |
| Dibenzo(a,h)anthracene | 74 | J | ug/kg | 110 | 21. | 1 | | |
| Indeno(1,2,3-cd)pyrene | 280 | | ug/kg | 140 | 25. | 1 | | |
| Pyrene | 550 | | ug/kg | 110 | 18. | 1 | | |

| Surrogate | % Recovery | Acceptance Qualifier Criteria | |
|------------------|------------|----------------------------------|--|
| Nitrobenzene-d5 | 37 | 23-120 | |
| 2-Fluorobiphenyl | 35 | 30-120 | |
| 4-Terphenyl-d14 | 30 | 18-120 | |



L1941419

Lab Number:

Project Name: LEGACY DEVELOPMENT

Project Number: T0105-019-014 **Report Date:** 09/13/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D Analytical Date: 09/13/19 11:05

Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 09/12/19 11:18

| Parameter | Result | Qualifier | Units | RL | | MDL |
|-------------------------------|-----------------|-------------|-----------|-------|--------|-------------|
| Semivolatile Organics by GC/M | S - Westborougl | n Lab for s | ample(s): | 01-03 | Batch: | WG1283334-1 |
| Acenaphthene | ND | | ug/kg | 130 | | 17. |
| Fluoranthene | ND | | ug/kg | 97 | | 18. |
| Naphthalene | ND | | ug/kg | 160 | | 20. |
| Benzo(a)anthracene | ND | | ug/kg | 97 | | 18. |
| Benzo(a)pyrene | ND | | ug/kg | 130 | | 39. |
| Benzo(b)fluoranthene | ND | | ug/kg | 97 | | 27. |
| Benzo(k)fluoranthene | ND | | ug/kg | 97 | | 26. |
| Chrysene | ND | | ug/kg | 97 | | 17. |
| Acenaphthylene | ND | | ug/kg | 130 | | 25. |
| Anthracene | ND | | ug/kg | 97 | | 31. |
| Benzo(ghi)perylene | ND | | ug/kg | 130 | | 19. |
| Fluorene | ND | | ug/kg | 160 | | 16. |
| Phenanthrene | ND | | ug/kg | 97 | | 20. |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 97 | | 19. |
| Indeno(1,2,3-cd)pyrene | ND | | ug/kg | 130 | | 22. |
| Pyrene | ND | | ug/kg | 97 | | 16. |
| | | | | | | |

| | | Acceptance | |
|----------------------|-----------|--------------------|---|
| Surrogate | %Recovery | Qualifier Criteria | |
| | | | _ |
| 2-Fluorophenol | 71 | 25-120 | |
| Phenol-d6 | 77 | 10-120 | |
| Nitrobenzene-d5 | 68 | 23-120 | |
| 2-Fluorobiphenyl | 60 | 30-120 | |
| 2,4,6-Tribromophenol | 62 | 10-136 | |
| 4-Terphenyl-d14 | 63 | 18-120 | |



Lab Control Sample Analysis Batch Quality Control

Project Name: LEGACY DEVELOPMENT

Project Number: T0105-019-014

Lab Number: L1941419

Report Date: 09/13/19

| arameter | LCS %Recovery | Qual | LCSD %Recov | | % Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|-----------------|----------------|--------|-----------|--------------------|--------|------|---------------|
| emivolatile Organics by GC/MS - Westborou | ıgh Lab Associ | ated sample(s): | 01-03 | Batch: | WG1283334 | -2 WG1283 | 3334-3 | | |
| Acenaphthene | 66 | | 56 | | | 31-137 | 16 | | 50 |
| Fluoranthene | 70 | | 60 | | | 40-140 | 15 | | 50 |
| Naphthalene | 66 | | 57 | | | 40-140 | 15 | | 50 |
| Benzo(a)anthracene | 69 | | 60 | | | 40-140 | 14 | | 50 |
| Benzo(a)pyrene | 64 | | 53 | | | 40-140 | 19 | | 50 |
| Benzo(b)fluoranthene | 71 | | 58 | | | 40-140 | 20 | | 50 |
| Benzo(k)fluoranthene | 64 | | 56 | | | 40-140 | 13 | | 50 |
| Chrysene | 68 | | 55 | | | 40-140 | 21 | | 50 |
| Acenaphthylene | 67 | | 56 | | | 40-140 | 18 | | 50 |
| Anthracene | 73 | | 61 | | | 40-140 | 18 | | 50 |
| Benzo(ghi)perylene | 71 | | 59 | | | 40-140 | 18 | | 50 |
| Fluorene | 69 | | 57 | | | 40-140 | 19 | | 50 |
| Phenanthrene | 68 | | 57 | | | 40-140 | 18 | | 50 |
| Dibenzo(a,h)anthracene | 74 | | 62 | | | 40-140 | 18 | | 50 |
| Indeno(1,2,3-cd)pyrene | 73 | | 61 | | | 40-140 | 18 | | 50 |
| Pyrene | 67 | | 58 | | | 35-142 | 14 | | 50 |

Lab Control Sample Analysis Batch Quality Control

Project Name: LEGACY DEVELOPMENT

Lab Number:

L1941419

Project Number: T0105

T0105-019-014

Report Date:

09/13/19

| | LCS | | LCSD | | %Recovery | | RPD | | |
|-----------|-----------|------|-----------|------|-----------|-----|------|--------|--|
| Parameter | %Recovery | Qual | %Recovery | Qual | Limits | RPD | Qual | Limits | |

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1283334-2 WG1283334-3

| Surrogate | LCS %Recovery Qual | LCSD %Recovery Qual | Acceptance Criteria |
|----------------------|-----------------------|------------------------|------------------------|
| 2-Fluorophenol | 75 | 61 | 25-120 |
| Phenol-d6 | 78 | 64 | 10-120 |
| Nitrobenzene-d5 | 71 | 61 | 23-120 |
| 2-Fluorobiphenyl | 59 | 51 | 30-120 |
| 2,4,6-Tribromophenol | 69 | 57 | 10-136 |
| 4-Terphenyl-d14 | 62 | 51 | 18-120 |



METALS



09/11/19 10:00

Date Collected:

Project Name:LEGACY DEVELOPMENTLab Number:L1941419Project Number:T0105-019-014Report Date:09/13/19

SAMPLE RESULTS

Lab ID: L1941419-01

Client ID: TP-1 Date Received: 09/11/19

Sample Location: 8 ST. LOUIS PLACE Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Percent Solids: 94%

| Percent Solids: | 9470 | | | | | Dilution | Date | Date | Prep | Analytical | |
|--------------------|------------|-----------|-------|-------|-------|----------|----------------|------------------|-----------|------------|---------|
| Parameter | Result | Qualifier | Units | RL | MDL | Factor | Prepared | Analyzed | Method | Method | Analyst |
| | | | | | | | | | | | |
| Total Metals - Man | sfield Lab | | | | | | | | | | |
| Arsenic, Total | 6.22 | | mg/kg | 2.07 | 0.431 | 5 | 09/13/19 08:30 | 09/13/19 12:07 | EPA 3050B | 1,6010D | LC |
| Barium, Total | 165 | | mg/kg | 2.07 | 0.361 | 5 | 09/13/19 08:30 | 09/13/19 12:07 | EPA 3050B | 1,6010D | LC |
| Cadmium, Total | 0.290 | J | mg/kg | 2.07 | 0.203 | 5 | 09/13/19 08:30 | 09/13/19 12:07 | EPA 3050B | 1,6010D | LC |
| Chromium, Total | 6.35 | | mg/kg | 2.07 | 0.199 | 5 | 09/13/19 08:30 | 09/13/19 12:07 | EPA 3050B | 1,6010D | LC |
| Lead, Total | 29.2 | | mg/kg | 10.4 | 0.556 | 5 | 09/13/19 08:30 | 09/13/19 12:07 | EPA 3050B | 1,6010D | LC |
| Mercury, Total | 0.097 | | mg/kg | 0.067 | 0.044 | 1 | 09/13/19 07:30 | 0 09/13/19 10:27 | EPA 7471B | 1,7471B | GD |
| Selenium, Total | 2.82 | J | mg/kg | 4.15 | 0.535 | 5 | 09/13/19 08:30 | 09/13/19 12:07 | EPA 3050B | 1,6010D | LC |
| Silver, Total | ND | | mg/kg | 2.07 | 0.587 | 5 | 09/13/19 08:30 | 09/13/19 12:07 | EPA 3050B | 1,6010D | LC |



09/11/19 10:05

Date Collected:

Project Name:LEGACY DEVELOPMENTLab Number:L1941419Project Number:T0105-019-014Report Date:09/13/19

SAMPLE RESULTS

Lab ID: L1941419-02

Client ID: TP-2 Date Received: 09/11/19

Sample Location: 8 ST. LOUIS PLACE Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 90%

Dilution Date Date Prep Analytical Method **Parameter** Result Qualifier Units Factor **Prepared** Analyzed Method RLMDL Analyst Total Metals - Mansfield Lab Arsenic, Total 7.62 mg/kg 2.13 0.443 5 09/13/19 08:30 09/13/19 12:25 EPA 3050B 1,6010D LC Barium, Total 155 mg/kg 0.370 5 09/13/19 08:30 09/13/19 12:25 EPA 3050B 1,6010D LC 2.13 J 5 LC Cadmium, Total 0.660 mg/kg 2.13 0.209 09/13/19 08:30 09/13/19 12:25 EPA 3050B 1,6010D 5 Chromium, Total 7.56 mg/kg 2.13 0.204 09/13/19 08:30 09/13/19 12:25 EPA 3050B 1,6010D LC 459 10.6 0.571 5 09/13/19 08:30 09/13/19 12:25 EPA 3050B 1,6010D LC Lead, Total mg/kg 1,7471B Mercury, Total 0.307 0.070 0.045 1 09/13/19 07:30 09/13/19 10:40 EPA 7471B GD mg/kg J Selenium, Total 1.51 mg/kg 4.26 0.549 5 09/13/19 08:30 09/13/19 12:25 EPA 3050B 1,6010D LC Silver, Total ND 0.603 5 09/13/19 08:30 09/13/19 12:25 EPA 3050B 1,6010D LC mg/kg 2.13



09/11/19 10:10

Project Name: Lab Number: LEGACY DEVELOPMENT L1941419 **Project Number:** Report Date: T0105-019-014 09/13/19

SAMPLE RESULTS

Lab ID: L1941419-03

Date Collected: Client ID: TP-3 Date Received: 09/11/19

Sample Location: 8 ST. LOUIS PLACE Field Prep: Not Specified

Sample Depth:

Matrix: Soil 91% Percent Solids:

| reiterit solius. | 3170 | | | | | Dilution | Date | Date | Prep | Analytical | |
|--------------------|------------|-----------|-------|-------|-------|----------|----------------|------------------|-----------|------------|---------|
| Parameter | Result | Qualifier | Units | RL | MDL | Factor | Prepared | Analyzed | Method | Method | Analyst |
| | | | | | | | | | | | |
| Total Metals - Man | sfield Lab | | | | | | | | | | |
| Arsenic, Total | 4.95 | | mg/kg | 0.423 | 0.088 | 1 | 09/13/19 08:30 | 0 09/13/19 11:33 | EPA 3050B | 1,6010D | LC |
| Barium, Total | 57.3 | | mg/kg | 0.423 | 0.074 | 1 | 09/13/19 08:30 | 0 09/13/19 11:33 | EPA 3050B | 1,6010D | LC |
| Cadmium, Total | 0.638 | | mg/kg | 0.423 | 0.041 | 1 | 09/13/19 08:30 | 0 09/13/19 11:33 | EPA 3050B | 1,6010D | LC |
| Chromium, Total | 7.31 | | mg/kg | 0.423 | 0.041 | 1 | 09/13/19 08:30 | 0 09/13/19 11:33 | EPA 3050B | 1,6010D | LC |
| Lead, Total | 186 | | mg/kg | 2.11 | 0.113 | 1 | 09/13/19 08:30 | 0 09/13/19 11:33 | EPA 3050B | 1,6010D | LC |
| Mercury, Total | 0.318 | | mg/kg | 0.069 | 0.045 | 1 | 09/13/19 07:30 | 0 09/13/19 10:44 | EPA 7471B | 1,7471B | GD |
| Selenium, Total | 0.186 | J | mg/kg | 0.846 | 0.109 | 1 | 09/13/19 08:30 | 09/13/19 11:33 | EPA 3050B | 1,6010D | LC |
| Silver, Total | ND | | mg/kg | 0.423 | 0.120 | 1 | 09/13/19 08:30 | 09/13/19 11:33 | EPA 3050B | 1,6010D | LC |



Project Name: LEGACY DEVELOPMENT

Project Number: T0105-019-014

Lab Number:

L1941419

Report Date: 09/13/19

Method Blank Analysis Batch Quality Control

| Parameter | Result Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | | |
|--|------------------|-------|-------|-------|--------------------|------------------|------------------|----------------------|----|--|
| Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1283654-1 | | | | | | | | | | |
| Mercury, Total | ND | mg/kg | 0.083 | 0.054 | 1 | 09/13/19 07:30 | 09/13/19 10:20 | 1,7471B | GD | |

Prep Information

Digestion Method: EPA 7471B

| Parameter | Result Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|----------------------|-------------------------|---------|---------|--------|--------------------|------------------|------------------|----------------------|---------|
| Total Metals - Mansf | ield Lab for sample(s): | 01-03 B | atch: W | G12836 | 63-1 | | | | |
| Arsenic, Total | ND | mg/kg | 0.400 | 0.083 | 1 | 09/13/19 08:30 | 09/13/19 10:51 | 1,6010D | LC |
| Barium, Total | ND | mg/kg | 0.400 | 0.070 | 1 | 09/13/19 08:30 | 09/13/19 10:51 | 1,6010D | LC |
| Cadmium, Total | ND | mg/kg | 0.400 | 0.039 | 1 | 09/13/19 08:30 | 09/13/19 10:51 | 1,6010D | LC |
| Chromium, Total | ND | mg/kg | 0.400 | 0.038 | 1 | 09/13/19 08:30 | 09/13/19 10:51 | 1,6010D | LC |
| Lead, Total | ND | mg/kg | 2.00 | 0.107 | 1 | 09/13/19 08:30 | 09/13/19 10:51 | 1,6010D | LC |
| Selenium, Total | ND | mg/kg | 0.800 | 0.103 | 1 | 09/13/19 08:30 | 09/13/19 10:51 | 1,6010D | LC |
| Silver, Total | ND | mg/kg | 0.400 | 0.113 | 1 | 09/13/19 08:30 | 09/13/19 10:51 | 1,6010D | LC |

Prep Information

Digestion Method: EPA 3050B



Lab Control Sample Analysis Batch Quality Control

Project Name: LEGACY DEVELOPMENT

Project Number: T0105-019-014

Lab Number:

L1941419

Report Date:

09/13/19

| Parameter | LCS %Recove | ry Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|----------------|-------------|-------------------|------------|---------------------|-----|------|------------|
| Total Metals - Mansfield Lab Associated sample | e(s): 01-03 | Batch: WG12 | 83654-2 SRM L | ot Number: | D105-540 | | | |
| Mercury, Total | 84 | | - | | 60-141 | - | | |
| Total Metals - Mansfield Lab Associated sample | e(s): 01-03 | Batch: WG12 | 83663-2 SRM L | ot Number: | D105-540 | | | |
| Arsenic, Total | 90 | | - | | 70-130 | - | | |
| Barium, Total | 84 | | - | | 75-125 | - | | |
| Cadmium, Total | 90 | | - | | 75-125 | - | | |
| Chromium, Total | 82 | | - | | 70-130 | - | | |
| Lead, Total | 82 | | - | | 71-128 | - | | |
| Selenium, Total | 87 | | - | | 63-137 | - | | |
| Silver, Total | 82 | | - | | 69-131 | - | | |

Matrix Spike Analysis Batch Quality Control

Project Name: LEGACY DEVELOPMENT

Project Number: T0105-019-014

Lab Number: L1941419

Report Date: 09/13/19

| arameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery Qu | Recovery al Limits | RPD | RPI Qual Limi |
|--------------------------------|------------------|----------------|-------------|-----------------|--------|--------------|---------------------|-----------------------|------------|------------------|
| Total Metals - Mansfield Lab A | ssociated san | nple(s): 01-03 | QC Ba | tch ID: WG128 | 3654-3 | QC Sam | nple: L1941419-01 | Client ID: TF | '-1 | |
| Mercury, Total | 0.097 | 0.136 | 0.181 | 62 | Q | - | - | 80-120 | - | 20 |
| Total Metals - Mansfield Lab A | ssociated san | nple(s): 01-03 | QC Ba | tch ID: WG128 | 3663-3 | QC Sam | nple: L1941419-01 | Client ID: TF | '-1 | |
| Arsenic, Total | 6.22 | 10 | 12.7 | 65 | Q | - | - | 75-125 | - | 20 |
| Barium, Total | 165 | 167 | 316 | 90 | | - | - | 75-125 | - | 20 |
| Cadmium, Total | 0.290J | 4.25 | 3.54 | 83 | | - | - | 75-125 | - | 20 |
| Chromium, Total | 6.35 | 16.7 | 18.7 | 74 | Q | - | - | 75-125 | - | 20 |
| Lead, Total | 29.2 | 42.5 | 67.5 | 90 | | - | - | 75-125 | - | 20 |
| Selenium, Total | 2.82J | 10 | 11.0 | 110 | | - | - | 75-125 | - | 20 |
| Silver, Total | ND | 25 | 22.1 | 88 | | - | - | 75-125 | - | 20 |

Lab Duplicate Analysis Batch Quality Control

Project Name: LEGACY DEVELOPMENT

Project Number: T0105-019-014

Lab Number: L1941419

Report Date:

09/13/19

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---|----------------|------------------------|-------------|------------|------|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-0 | 3 QC Batch ID: | WG1283654-4 QC Sample: | L1941419-01 | Client ID: | TP-1 | |
| Mercury, Total | 0.097 | 0.068 | mg/kg | 35 | Q | 20 |
| Total Metals - Mansfield Lab Associated sample(s): 01-0 | 3 QC Batch ID: | WG1283663-4 QC Sample: | L1941419-01 | Client ID: | TP-1 | |
| Arsenic, Total | 6.22 | 3.65 | mg/kg | 52 | Q | 20 |
| Barium, Total | 165 | 171 | mg/kg | 4 | | 20 |
| Cadmium, Total | 0.290J | 0.284J | mg/kg | NC | | 20 |
| Chromium, Total | 6.35 | 6.50 | mg/kg | 2 | | 20 |
| Lead, Total | 29.2 | 34.9 | mg/kg | 18 | | 20 |
| Selenium, Total | 2.82J | 2.61J | mg/kg | NC | | 20 |
| Silver, Total | ND | ND | mg/kg | NC | | 20 |

INORGANICS & MISCELLANEOUS



09/11/19 10:00

Project Name: LEGACY DEVELOPMENT Lab Number:

L1941419

Date Collected:

Project Number: Report Date: 09/13/19 T0105-019-014

SAMPLE RESULTS

Lab ID: L1941419-01

Client ID: TP-1

Date Received: 09/11/19 Sample Location: 8 ST. LOUIS PLACE Not Specified Field Prep:

Sample Depth:

Matrix: Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-----------------------|-----------------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - \ | Westborough Lab | | | | | | | | | |
| Solids, Total | 93.5 | | % | 0.100 | NA | 1 | - | 09/12/19 13:31 | 121,2540G | RI |



Project Name: LEGACY DEVELOPMENT Lab Number: L1941419

Project Number: T0105-019-014 **Report Date:** 09/13/19

SAMPLE RESULTS

Lab ID: L1941419-02 Date Collected: 09/11/19 10:05

Client ID: TP-2 Date Received: 09/11/19

Sample Location: 8 ST. LOUIS PLACE Field Prep: Not Specified

Sample Depth:

Matrix: Soil

| Parameter | Result Qua | lifier Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|------------|--------------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | |
| Solids, Total | 90.3 | % | 0.100 | NA | 1 | - | 09/12/19 13:31 | 121,2540G | RI |



Project Name: LEGACY DEVELOPMENT Lab Number: L1941419

Project Number: T0105-019-014 **Report Date:** 09/13/19

SAMPLE RESULTS

Lab ID: L1941419-03 Date Collected: 09/11/19 10:10

Client ID: TP-3 Date Received: 09/11/19

Sample Location: 8 ST. LOUIS PLACE Field Prep: Not Specified

Sample Depth:

Matrix: Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---------------------|-----------------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - | Westborough Lab |) | | | | | | | | |
| Solids, Total | 90.6 | | % | 0.100 | NA | 1 | - | 09/12/19 13:31 | 121,2540G | RI |



Lab Duplicate Analysis

Batch Quality Control

Lab Number: **Project Name:** LEGACY DEVELOPMENT L1941419

09/13/19 **Project Number:** Report Date: T0105-019-014

| Parameter | Native Sam | ple D | ouplicate Sample | Units | RPD | Qual | RPD Limits |
|-------------------------------------|-----------------------------|--------------|------------------|------------|-------------|------------|------------|
| General Chemistry - Westborough Lab | Associated sample(s): 01-03 | QC Batch ID: | WG1283342-1 | QC Sample: | L1941473-01 | Client ID: | DUP Sample |
| Solids, Total | 96.4 | | 95.6 | % | 1 | | 20 |



Serial_No:09131918:48

Lab Number: L1941419

Report Date: 09/13/19

Project Name: LEGACY DEVELOPMENT

Project Number: T0105-019-014

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler Custody Seal

A Absent

| Container Info | rmation | | Initial | Final | Temp | | | Frozen | |
|----------------|------------------------------------|--------|---------|-------|-------|------|--------|-----------|---|
| Container ID | Container Type | Cooler | рН | pН | deg C | Pres | Seal | Date/Time | Analysis(*) |
| L1941419-01A | Vial Large Septa unpreserved (4oz) | A | NA | | 5.3 | Υ | Absent | | AS-TI(180),BA-TI(180),AG-TI(180),CR- TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD- TI(180) |
| L1941419-01B | Vial Large Septa unpreserved (4oz) | Α | NA | | 5.3 | Υ | Absent | | NYCP51-PAH(14),TS(7) |
| L1941419-02A | Vial Large Septa unpreserved (4oz) | Α | NA | | 5.3 | Υ | Absent | | AS-TI(180),BA-TI(180),AG-TI(180),CR- TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD- TI(180) |
| L1941419-02B | Vial Large Septa unpreserved (4oz) | Α | NA | | 5.3 | Υ | Absent | | NYCP51-PAH(14),TS(7) |
| L1941419-03A | Vial Large Septa unpreserved (4oz) | Α | NA | | 5.3 | Υ | Absent | | AS-TI(180),BA-TI(180),AG-TI(180),CR- TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD- TI(180) |
| L1941419-03B | Vial Large Septa unpreserved (4oz) | Α | NA | | 5.3 | Υ | Absent | | NYCP51-PAH(14),TS(7) |



Project Name:LEGACY DEVELOPMENTLab Number:L1941419Project Number:T0105-019-014Report Date:09/13/19

GLOSSARY

Acronyms

EDL

LOQ

MS

RPD

SRM

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

 Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

 - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

 Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name:LEGACY DEVELOPMENTLab Number:L1941419Project Number:T0105-019-014Report Date:09/13/19

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

Terms

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

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

Data Qualifiers

- A Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte was detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- ${\bf E} \qquad \hbox{-Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.}$
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- ${f P}$ The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Serial_No:09131918:48

Project Name:LEGACY DEVELOPMENTLab Number:L1941419Project Number:T0105-019-014Report Date:09/13/19

REFERENCES

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

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

LIMITATION OF LIABILITIES

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

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



Serial_No:09131918:48

Alpha Analytical, Inc.
Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:**17873** Revision 15

Page 1 of 1

Published Date: 8/15/2019 9:53:42 AM

Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; 4-Ethy

Ethyltoluene

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

Document Type: Form

Pre-Qualtrax Document ID: 08-113



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ANALYTICAL REPORT

Lab Number: L1942912

Client: Turnkey Environmental Restoration, LLC

2558 Hamburg Turnpike

Suite 300

Buffalo, NY 14218

ATTN: Mike Lesakowski Phone: (716) 856-0599

Project Name: LEGACY DEVELOPMENT

Project Number: T0395-018-001

Report Date: 09/20/19

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: LEGACY DEVELOPMENT

Project Number: T0395-018-001

Lab Number: L1942912 **Report Date:** 09/20/19

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|--------------------|-----------|--------|--------------------|-------------------------|--------------|
| L1942912-01 | TP-4 | SOIL | 8 ST., LOUIS PLACE | 09/17/19 11:10 | 09/18/19 |
| L1942912-02 | TP-5 | SOIL | 8 ST., LOUIS PLACE | 09/17/19 11:20 | 09/18/19 |
| L1942912-03 | TP-6 | SOIL | 8 ST., LOUIS PLACE | 09/17/19 11:00 | 09/18/19 |



L1942912

Lab Number:

Project Name: LEGACY DEVELOPMENT

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

| Please contact Project Management at 800-624-9220 with any questions. | |
|---|--|
| | |
| | |



Project Name:LEGACY DEVELOPMENTLab Number:L1942912Project Number:T0395-018-001Report Date:09/20/19

Case Narrative (continued)

Report Submission

The project number was provided by the client.

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

Semivolatile Organics

L1942912-01, -02, and -03: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.

Total Metals

L1942912-01: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

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

Custen Walker Cristin Walker

Authorized Signature:

Title: Technical Director/Representative Date: 09/20/19

ALPHA

ORGANICS



SEMIVOLATILES



Project Name: LEGACY DEVELOPMENT Lab Number: L1942912

Project Number: Report Date: T0395-018-001 09/20/19

SAMPLE RESULTS

Lab ID: L1942912-01 Date Collected: 09/17/19 11:10

TP-4 Date Received: Client ID: 09/18/19

Sample Location: 8 ST., LOUIS PLACE Field Prep: Not Specified

Sample Depth:

Analytical Date:

Extraction Method: EPA 3546 Matrix: Soil **Extraction Date:** 09/19/19 09:15 Analytical Method: 1,8270D

Analyst: IM 88% Percent Solids:

09/20/19 08:26

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | | | |
|--|--------|-----------|-------|-----|-----|-----------------|--|--|--|
| Semivolatile Organics by GC/MS - Westborough Lab | | | | | | | | | |
| Acenaphthene | 280 | J | ug/kg | 450 | 58. | 1 | | | |
| Fluoranthene | 6400 | | ug/kg | 340 | 64. | 1 | | | |
| Naphthalene | 110 | J | ug/kg | 560 | 68. | 1 | | | |
| Benzo(a)anthracene | 3100 | | ug/kg | 340 | 63. | 1 | | | |
| Benzo(a)pyrene | 3500 | | ug/kg | 450 | 140 | 1 | | | |
| Benzo(b)fluoranthene | 4800 | | ug/kg | 340 | 94. | 1 | | | |
| Benzo(k)fluoranthene | 1600 | | ug/kg | 340 | 90. | 1 | | | |
| Chrysene | 3100 | | ug/kg | 340 | 58. | 1 | | | |
| Acenaphthylene | 280 | J | ug/kg | 450 | 87. | 1 | | | |
| Anthracene | 680 | | ug/kg | 340 | 110 | 1 | | | |
| Benzo(ghi)perylene | 2800 | | ug/kg | 450 | 66. | 1 | | | |
| Fluorene | 220 | J | ug/kg | 560 | 54. | 1 | | | |
| Phenanthrene | 3000 | | ug/kg | 340 | 68. | 1 | | | |
| Dibenzo(a,h)anthracene | 610 | | ug/kg | 340 | 65. | 1 | | | |
| Indeno(1,2,3-cd)pyrene | 2700 | | ug/kg | 450 | 78. | 1 | | | |
| Pyrene | 5200 | | ug/kg | 340 | 56. | 1 | | | |

| Surrogate | % Recovery | Acceptance Qualifier Criteria | |
|------------------|------------|----------------------------------|--|
| Nitrobenzene-d5 | 76 | 23-120 | |
| 2-Fluorobiphenyl | 78 | 30-120 | |
| 4-Terphenyl-d14 | 74 | 18-120 | |



Project Name: Lab Number: LEGACY DEVELOPMENT L1942912

Project Number: Report Date: T0395-018-001 09/20/19

SAMPLE RESULTS

09/20/19 08:49

Lab ID: L1942912-02 Date Collected: 09/17/19 11:20

Date Received: Client ID: TP-5 09/18/19 Sample Location: 8 ST., LOUIS PLACE Field Prep: Not Specified

Sample Depth:

Analytical Date:

Extraction Method: EPA 3546 Matrix: Soil **Extraction Date:** 09/19/19 06:18 Analytical Method: 1,8270D

Analyst: IM 92% Percent Solids:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | | | |
|--------------------------------------|--|-----------|-------|-----|-----|-----------------|--|--|--|
| Semivolatile Organics by GC/MS - Wes | Semivolatile Organics by GC/MS - Westborough Lab | | | | | | | | |
| Acenaphthene | 340 | J | ug/kg | 430 | 55. | 1 | | | |
| Fluoranthene | 5500 | | ug/kg | 320 | 61. | 1 | | | |
| Naphthalene | 66 | J | ug/kg | 530 | 65. | 1 | | | |
| Benzo(a)anthracene | 2500 | | ug/kg | 320 | 60. | 1 | | | |
| Benzo(a)pyrene | 2400 | | ug/kg | 430 | 130 | 1 | | | |
| Benzo(b)fluoranthene | 3700 | | ug/kg | 320 | 90. | 1 | | | |
| Benzo(k)fluoranthene | 1000 | | ug/kg | 320 | 85. | 1 | | | |
| Chrysene | 2600 | | ug/kg | 320 | 55. | 1 | | | |
| Acenaphthylene | ND | | ug/kg | 430 | 82. | 1 | | | |
| Anthracene | 500 | | ug/kg | 320 | 100 | 1 | | | |
| Benzo(ghi)perylene | 1600 | | ug/kg | 430 | 63. | 1 | | | |
| Fluorene | 220 | J | ug/kg | 530 | 52. | 1 | | | |
| Phenanthrene | 2800 | | ug/kg | 320 | 65. | 1 | | | |
| Dibenzo(a,h)anthracene | 440 | | ug/kg | 320 | 62. | 1 | | | |
| Indeno(1,2,3-cd)pyrene | 1600 | | ug/kg | 430 | 74. | 1 | | | |
| Pyrene | 4300 | | ug/kg | 320 | 53. | 1 | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | |
|------------------|------------|-----------|------------------------|--|
| Nitrobenzene-d5 | 82 | | 23-120 | |
| 2-Fluorobiphenyl | 85 | | 30-120 | |
| 4-Terphenyl-d14 | 70 | | 18-120 | |



Project Name: LEGACY DEVELOPMENT Lab Number: L1942912

Project Number: T0395-018-001 **Report Date:** 09/20/19

SAMPLE RESULTS

Lab ID: L1942912-03 Date Collected: 09/17/19 11:00

Client ID: TP-6 Date Received: 09/18/19

Sample Location: 8 ST., LOUIS PLACE Field Prep: Not Specified

Sample Depth:

Analytical Date:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8270D Extraction Date: 09/19/19 06:18

Analyst: IM
Percent Solids: 89%

09/20/19 09:12

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | | |
|--|--------|-----------|-------|-----|-----|-----------------|--|--|
| Semivolatile Organics by GC/MS - Westborough Lab | | | | | | | | |
| Acenaphthene | 100 | J | ug/kg | 440 | 57. | 1 | | |
| Fluoranthene | 2100 | | ug/kg | 330 | 63. | 1 | | |
| Naphthalene | 81 | J | ug/kg | 550 | 67. | 1 | | |
| Benzo(a)anthracene | 980 | | ug/kg | 330 | 62. | 1 | | |
| Benzo(a)pyrene | 910 | | ug/kg | 440 | 130 | 1 | | |
| Benzo(b)fluoranthene | 1300 | | ug/kg | 330 | 92. | 1 | | |
| Benzo(k)fluoranthene | 340 | | ug/kg | 330 | 88. | 1 | | |
| Chrysene | 920 | | ug/kg | 330 | 57. | 1 | | |
| Acenaphthylene | 210 | J | ug/kg | 440 | 84. | 1 | | |
| Anthracene | 350 | | ug/kg | 330 | 110 | 1 | | |
| Benzo(ghi)perylene | 640 | | ug/kg | 440 | 64. | 1 | | |
| Fluorene | 110 | J | ug/kg | 550 | 53. | 1 | | |
| Phenanthrene | 1200 | | ug/kg | 330 | 66. | 1 | | |
| Dibenzo(a,h)anthracene | 140 | J | ug/kg | 330 | 63. | 1 | | |
| Indeno(1,2,3-cd)pyrene | 640 | | ug/kg | 440 | 76. | 1 | | |
| Pyrene | 1800 | | ug/kg | 330 | 54. | 1 | | |
| | | | | | | | | |

| Surrogate | % Recovery | Acceptance Qualifier Criteria | |
|------------------|------------|----------------------------------|--|
| Nitrobenzene-d5 | 58 | 23-120 | |
| 2-Fluorobiphenyl | 59 | 30-120 | |
| 4-Terphenyl-d14 | 60 | 18-120 | |



L1942912

EPA 3546

09/19/19 06:18

Project Name: LEGACY DEVELOPMENT Lab Number:

Project Number: T0395-018-001 **Report Date:** 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D Extraction Method:
Analytical Date: 09/19/19 23:40 Extraction Date:

Analyst: IM

Qualifier RL MDL **Parameter** Result Units Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1285950-1 Acenaphthene ND ug/kg 130 17. Fluoranthene ND 100 19. ug/kg ND Naphthalene ug/kg 160 20. Benzo(a)anthracene ND 100 19. ug/kg ND 40. Benzo(a)pyrene 130 ug/kg ND Benzo(b)fluoranthene ug/kg 100 28. Benzo(k)fluoranthene ND 100 26. ug/kg Chrysene ND ug/kg 100 17. Acenaphthylene ND 130 26. ug/kg ND 32. Anthracene 100 ug/kg Benzo(ghi)perylene ND ug/kg 130 20. Fluorene ND 160 16. ug/kg Phenanthrene ND ug/kg 100 20. Dibenzo(a,h)anthracene ND 100 19. ug/kg ND Indeno(1,2,3-cd)pyrene 23. ug/kg 130 ND Pyrene ug/kg 100 16.

| urrogate %Recovery 0 | | Acceptance |
|----------------------|--------------------|------------|
| Surrogate | %Recovery Qualifie | r Criteria |
| Nitrobenzene-d5 | 56 | 23-120 |
| 2-Fluorobiphenyl | 61 | 30-120 |
| 4-Terphenyl-d14 | 68 | 18-120 |



Lab Control Sample Analysis Batch Quality Control

Project Name: LEGACY DEVELOPMENT

Project Number:

T0395-018-001

Lab Number: L1942912

Report Date: 09/20/19

| arameter | LCS %Recovery | Qual | LCSD %Recov | | %. Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|-----------------|----------------|--------|------------|--------------------|--------|------|---------------|
| emivolatile Organics by GC/MS - Westborou | ıgh Lab Associ | ated sample(s): | 01-03 | Batch: | WG1285950 | -2 WG1285 | 5950-3 | | |
| Acenaphthene | 75 | | 68 | | | 31-137 | 10 | | 50 |
| Fluoranthene | 82 | | 71 | | | 40-140 | 14 | | 50 |
| Naphthalene | 74 | | 66 | | | 40-140 | 11 | | 50 |
| Benzo(a)anthracene | 77 | | 67 | | | 40-140 | 14 | | 50 |
| Benzo(a)pyrene | 76 | | 63 | | | 40-140 | 19 | | 50 |
| Benzo(b)fluoranthene | 79 | | 69 | | | 40-140 | 14 | | 50 |
| Benzo(k)fluoranthene | 81 | | 68 | | | 40-140 | 17 | | 50 |
| Chrysene | 76 | | 64 | | | 40-140 | 17 | | 50 |
| Acenaphthylene | 82 | | 75 | | | 40-140 | 9 | | 50 |
| Anthracene | 79 | | 69 | | | 40-140 | 14 | | 50 |
| Benzo(ghi)perylene | 80 | | 68 | | | 40-140 | 16 | | 50 |
| Fluorene | 79 | | 70 | | | 40-140 | 12 | | 50 |
| Phenanthrene | 74 | | 65 | | | 40-140 | 13 | | 50 |
| Dibenzo(a,h)anthracene | 81 | | 69 | | | 40-140 | 16 | | 50 |
| Indeno(1,2,3-cd)pyrene | 82 | | 70 | | | 40-140 | 16 | | 50 |
| Pyrene | 81 | | 70 | | | 35-142 | 15 | | 50 |

| Surrogate | LCS %Recovery Qual | LCSD %Recovery Qual | Acceptance Criteria |
|------------------|-----------------------|------------------------|------------------------|
| | 62 | 56 | 23-120 |
| 2-Fluorobiphenyl | 66 | 60 | 30-120 |
| 4-Terphenyl-d14 | 69 | 59 | 18-120 |



METALS



09/17/19 11:10

Date Collected:

Project Name:LEGACY DEVELOPMENTLab Number:L1942912Project Number:T0395-018-001Report Date:09/20/19

SAMPLE RESULTS

Lab ID: L1942912-01

Client ID: TP-4 Date Received: 09/18/19

Sample Location: 8 ST., LOUIS PLACE Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Percent Solids: 88%

| Percent Solids: | 00 /0 | | | | | Dilution | Date | Date | Prep | Analytical | |
|--------------------|--------------------|-----------|-------|-------|-------|----------|----------------|------------------|-----------|------------|---------|
| Parameter | Result | Qualifier | Units | RL | MDL | Factor | Prepared | Analyzed | Method | Method | Analyst |
| T | <i>e</i> : 1.1.1.1 | | | | | | | | | | |
| Total Metals - Man | sfield Lab | | | | | | | | | | |
| Arsenic, Total | 5.88 | | mg/kg | 0.884 | 0.184 | 2 | 09/19/19 08:4 | 5 09/19/19 17:50 | EPA 3050B | 1,6010D | AB |
| Barium, Total | 142 | | mg/kg | 0.884 | 0.154 | 2 | 09/19/19 08:4 | 5 09/19/19 16:19 | EPA 3050B | 1,6010D | AB |
| Cadmium, Total | 0.654 | J | mg/kg | 0.884 | 0.087 | 2 | 09/19/19 08:4 | 5 09/19/19 16:19 | EPA 3050B | 1,6010D | AB |
| Chromium, Total | 5.87 | | mg/kg | 0.884 | 0.085 | 2 | 09/19/19 08:4 | 5 09/19/19 16:19 | EPA 3050B | 1,6010D | AB |
| Lead, Total | 680 | | mg/kg | 4.42 | 0.237 | 2 | 09/19/19 08:4 | 5 09/19/19 16:19 | EPA 3050B | 1,6010D | AB |
| Mercury, Total | 0.170 | | mg/kg | 0.072 | 0.047 | 1 | 09/19/19 09:00 | 0 09/19/19 12:50 | EPA 7471B | 1,7471B | GD |
| Selenium, Total | 0.230 | J | mg/kg | 1.77 | 0.228 | 2 | 09/19/19 08:4 | 5 09/19/19 16:19 | EPA 3050B | 1,6010D | AB |
| Silver, Total | ND | | mg/kg | 0.884 | 0.250 | 2 | 09/19/19 08:4 | 5 09/19/19 16:19 | EPA 3050B | 1,6010D | AB |



09/17/19 11:20

Date Collected:

Project Name:LEGACY DEVELOPMENTLab Number:L1942912Project Number:T0395-018-001Report Date:09/20/19

SAMPLE RESULTS

Lab ID: L1942912-02

Client ID: TP-5 Date Received: 09/18/19

Sample Location: 8 ST., LOUIS PLACE Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Percent Solids: 92%

| Percent Solids: | 9270 | | | | | Dilution | Date | Date | Prep | Analytical | |
|--------------------|------------|-----------|-------|-------|-------|----------|----------------|------------------|-----------|------------|---------|
| Parameter | Result | Qualifier | Units | RL | MDL | Factor | Prepared | Analyzed | Method | Method | Analyst |
| | | | | | | | | | | | |
| Total Metals - Man | sfield Lab | | | | | | | | | | |
| Arsenic, Total | 3.34 | | mg/kg | 0.423 | 0.088 | 1 | 09/19/19 08:45 | 5 09/19/19 12:45 | EPA 3050B | 1,6010D | LC |
| Barium, Total | 36.3 | | mg/kg | 0.423 | 0.074 | 1 | 09/19/19 08:45 | 5 09/19/19 12:45 | EPA 3050B | 1,6010D | LC |
| Cadmium, Total | 0.165 | J | mg/kg | 0.423 | 0.042 | 1 | 09/19/19 08:45 | 5 09/19/19 12:45 | EPA 3050B | 1,6010D | LC |
| Chromium, Total | 4.33 | | mg/kg | 0.423 | 0.041 | 1 | 09/19/19 08:45 | 5 09/19/19 12:45 | EPA 3050B | 1,6010D | LC |
| Lead, Total | 105 | | mg/kg | 2.12 | 0.113 | 1 | 09/19/19 08:45 | 5 09/19/19 12:45 | EPA 3050B | 1,6010D | LC |
| Mercury, Total | 0.278 | | mg/kg | 0.069 | 0.045 | 1 | 09/19/19 09:00 | 0 09/19/19 12:52 | EPA 7471B | 1,7471B | GD |
| Selenium, Total | ND | | mg/kg | 0.846 | 0.109 | 1 | 09/19/19 08:45 | 5 09/19/19 12:45 | EPA 3050B | 1,6010D | LC |
| Silver, Total | ND | | mg/kg | 0.423 | 0.120 | 1 | 09/19/19 08:45 | 5 09/19/19 12:45 | EPA 3050B | 1,6010D | LC |



09/17/19 11:00

Date Collected:

Project Name:LEGACY DEVELOPMENTLab Number:L1942912Project Number:T0395-018-001Report Date:09/20/19

SAMPLE RESULTS

Lab ID: L1942912-03

Client ID: TP-6 Date Received: 09/18/19

Sample Location: 8 ST., LOUIS PLACE Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 89%

Prep Dilution Date Date Analytical Method **Parameter** Qualifier Units Factor **Prepared** Analyzed Method Result RLMDL Analyst Total Metals - Mansfield Lab Arsenic, Total 10.7 mg/kg 0.431 0.090 1 09/19/19 08:45 09/19/19 12:50 EPA 3050B 1,6010D LC Barium, Total 139 mg/kg 0.431 0.075 1 09/19/19 08:45 09/19/19 12:50 EPA 3050B 1,6010D LC J 1 LC Cadmium, Total 0.099 mg/kg 0.431 0.042 09/19/19 08:45 09/19/19 12:50 EPA 3050B 1,6010D 1 Chromium, Total 5.79 mg/kg 0.431 0.041 09/19/19 08:45 09/19/19 12:50 EPA 3050B 1,6010D LC 528 09/19/19 08:45 09/19/19 12:50 EPA 3050B 1,6010D LC Lead, Total mg/kg 2.15 0.115 1 1,7471B Mercury, Total 0.483 0.071 0.046 1 09/19/19 09:00 09/19/19 12:54 EPA 7471B GD mg/kg J Selenium, Total 0.513 mg/kg 0.862 0.111 1 09/19/19 08:45 09/19/19 12:50 EPA 3050B 1,6010D LC Silver, Total 0.125 J 0.431 0.122 1 09/19/19 08:45 09/19/19 12:50 EPA 3050B 1,6010D LC mg/kg



Project Name: LEGACY DEVELOPMENT

Project Number: T0395-018-001

Lab Number:

L1942912

Report Date: 09/20/19

Method Blank Analysis Batch Quality Control

| Parameter | Result Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--------------------------|--------------------|---------|----------|--------|--------------------|------------------|------------------|----------------------|---------|
| Total Metals - Mansfield | Lab for sample(s): | 01-03 B | atch: Wo | G12859 | 73-1 | | | | |
| Arsenic, Total | ND | mg/kg | 0.400 | 0.083 | 1 | 09/19/19 08:45 | 09/19/19 11:30 | 1,6010D | LC |
| Barium, Total | ND | mg/kg | 0.400 | 0.070 | 1 | 09/19/19 08:45 | 09/19/19 11:30 | 1,6010D | LC |
| Cadmium, Total | ND | mg/kg | 0.400 | 0.039 | 1 | 09/19/19 08:45 | 09/19/19 11:30 | 1,6010D | LC |
| Chromium, Total | ND | mg/kg | 0.400 | 0.038 | 1 | 09/19/19 08:45 | 09/19/19 11:30 | 1,6010D | LC |
| Lead, Total | ND | mg/kg | 2.00 | 0.107 | 1 | 09/19/19 08:45 | 09/19/19 11:30 | 1,6010D | LC |
| Selenium, Total | ND | mg/kg | 0.800 | 0.103 | 1 | 09/19/19 08:45 | 09/19/19 11:30 | 1,6010D | LC |
| Silver, Total | ND | mg/kg | 0.400 | 0.113 | 1 | 09/19/19 08:45 | 09/19/19 11:30 | 1,6010D | LC |

Prep Information

Digestion Method: EPA 3050B

| Parameter | Result Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytica Method | |
|---------------------|---------------------------|---------|---------|--------|--------------------|------------------|------------------|---------------------|----|
| Total Metals - Mans | sfield Lab for sample(s): | 01-03 B | atch: W | G12859 | 79-1 | | | | |
| Mercury, Total | ND | mg/kg | 0.083 | 0.054 | 1 | 09/19/19 09:00 | 09/19/19 12:32 | 2 1,7471B | GD |

Prep Information

Digestion Method: EPA 7471B



Lab Control Sample Analysis Batch Quality Control

Project Name: LEGACY DEVELOPMENT

Project Number: T0395-018-001

Lab Number:

L1942912

Report Date:

09/20/19

| Parameter | LCS %Recovery | y Qual | LCSD %Recover | y Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|-------------|------------------|---------------|---------------------|-----|------|------------|
| Total Metals - Mansfield Lab Associated sample | (s): 01-03 B | Batch: WG12 | 85973-2 SR | M Lot Number: | : D105-540 | | | |
| Arsenic, Total | 112 | | - | | 70-130 | - | | |
| Barium, Total | 92 | | - | | 75-125 | - | | |
| Cadmium, Total | 98 | | - | | 75-125 | - | | |
| Chromium, Total | 95 | | - | | 70-130 | - | | |
| Lead, Total | 101 | | - | | 71-128 | - | | |
| Selenium, Total | 107 | | - | | 63-137 | - | | |
| Silver, Total | 100 | | - | | 69-131 | - | | |
| Total Metals - Mansfield Lab Associated sample | (s): 01-03 B | Batch: WG12 | 85979-2 SR | M Lot Number: | : D105-540 | | | |
| Mercury, Total | 91 | | - | | 60-141 | - | | |

Matrix Spike Analysis Batch Quality Control

Project Name: LEGACY DEVELOPMENT

Project Number: T0395-018-001

Lab Number: L1942912

Report Date: 09/20/19

| arameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery Q | Recovery ual Limits | RPD Qual | RPD Limits |
|------------------------------|------------------|----------------|-------------|-----------------|--------|--------------|--------------------|------------------------|----------|---------------|
| Total Metals - Mansfield Lab | o Associated san | nple(s): 01-03 | QC Ba | tch ID: WG128 | 5973-3 | QC San | nple: L1942986-01 | Client ID: MS | S Sample | |
| Arsenic, Total | 0.784 | 9.82 | 10.5 | 99 | | - | - | 75-125 | - | 20 |
| Barium, Total | 29.1 | 164 | 178 | 91 | | - | - | 75-125 | - | 20 |
| Cadmium, Total | ND | 4.17 | 3.67 | 88 | | - | - | 75-125 | - | 20 |
| Chromium, Total | 4.86 | 16.4 | 19.7 | 91 | | - | - | 75-125 | - | 20 |
| Lead, Total | 2.68 | 41.7 | 37.6 | 84 | | - | - | 75-125 | - | 20 |
| Selenium, Total | ND | 9.82 | 8.92 | 91 | | - | - | 75-125 | - | 20 |
| Silver, Total | ND | 24.5 | 21.6 | 88 | | - | - | 75-125 | - | 20 |
| otal Metals - Mansfield Lab | o Associated san | nple(s): 01-03 | QC Ba | tch ID: WG128 | 5979-3 | QC San | nple: L1942870-01 | Client ID: MS | Sample | |
| Mercury, Total | ND | 0.133 | 0.128 | 96 | | - | - | 80-120 | - | 20 |

Lab Duplicate Analysis

Batch Quality Control

Lab Number: **Project Name:** LEGACY DEVELOPMENT L1942912

Project Number: Report Date: 09/20/19 T0395-018-001

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual RPD Limits | |
|---|------------------|------------------------|-------------|------------|-----------------|--|
| Total Metals - Mansfield Lab Associated sample(s): 01 | -03 QC Batch ID: | WG1285979-4 QC Sample: | L1942870-01 | Client ID: | DUP Sample | |
| Mercury, Total | ND | ND | mg/kg | NC | 20 | |



INORGANICS & MISCELLANEOUS



Project Name: LEGACY DEVELOPMENT Lab Number: L1942912

SAMPLE RESULTS

Lab ID: L1942912-01 Date Collected: 09/17/19 11:10

Client ID: TP-4 Date Received: 09/18/19

Sample Location: 8 ST., LOUIS PLACE Field Prep: Not Specified

Sample Depth:

Matrix: Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-----------------------|-----------------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - \ | Westborough Lab | | | | | | | | | |
| Solids, Total | 87.6 | | % | 0.100 | NA | 1 | - | 09/19/19 07:56 | 121,2540G | RI |



Project Name: LEGACY DEVELOPMENT Lab Number: L1942912

Project Number: T0395-018-001 **Report Date:** 09/20/19

SAMPLE RESULTS

Lab ID: L1942912-02 Date Collected: 09/17/19 11:20

Client ID: TP-5 Date Received: 09/18/19

Sample Location: 8 ST., LOUIS PLACE Field Prep: Not Specified

Sample Depth:

Matrix: Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---------------------|-----------------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - | Westborough Lab |) | | | | | | | | |
| Solids, Total | 92.3 | | % | 0.100 | NA | 1 | - | 09/19/19 07:56 | 121,2540G | RI |



09/17/19 11:00

Date Collected:

Project Name: Lab Number: LEGACY DEVELOPMENT

L1942912 Report Date: **Project Number:** 09/20/19 T0395-018-001

SAMPLE RESULTS

Lab ID: L1942912-03

Client ID: TP-6

Date Received: 09/18/19 Sample Location: 8 ST., LOUIS PLACE Not Specified Field Prep:

Sample Depth:

Matrix: Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------|-------------------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry | - Westborough Lab | | | | | | | | | |
| Solids, Total | 89.2 | | % | 0.100 | NA | 1 | - | 09/19/19 07:56 | 121,2540G | RI |



Lab Duplicate Analysis

Batch Quality Control

Lab Number: **Project Name:** LEGACY DEVELOPMENT L1942912

Project Number: Report Date: 09/20/19 T0395-018-001

| Parameter | Native Sam | ple D | uplicate Sample | Units | RPD | Qual | RPD Limits |
|-------------------------------------|-----------------------------|--------------|-----------------|------------|-------------|------------|------------|
| General Chemistry - Westborough Lab | Associated sample(s): 01-03 | QC Batch ID: | WG1285980-1 | QC Sample: | L1942912-01 | Client ID: | ГР-4 |
| Solids, Total | 87.6 | | 88.9 | % | 1 | | 20 |



Lab Number: L1942912

Report Date: 09/20/19

Project Name: LEGACY DEVELOPMENT

Project Number: T0395-018-001

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler Custody Seal

A Absent

| Container Information | | | Initial | Final | Temp | | | Frozen | | |
|-----------------------|--------------|-----------------------------|-----------|-------|-------|------|------|-----------|-------------|---|
| | Container ID | Container Type | Cooler pH | pН | deg C | Pres | Seal | Date/Time | Analysis(*) | |
| | L1942912-01A | Glass 120ml/4oz unpreserved | Α | NA | | 3.9 | Υ | Absent | | AS-TI(180),BA-TI(180),AG-TI(180),CR- TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD- TI(180) |
| | L1942912-01B | Glass 120ml/4oz unpreserved | Α | NA | | 3.9 | Υ | Absent | | NYCP51-PAH(14),TS(7) |
| | L1942912-02A | Glass 120ml/4oz unpreserved | A | NA | | 3.9 | Υ | Absent | | AS-TI(180),BA-TI(180),AG-TI(180),CR- TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD- TI(180) |
| | L1942912-02B | Glass 120ml/4oz unpreserved | Α | NA | | 3.9 | Υ | Absent | | NYCP51-PAH(14),TS(7) |
| | L1942912-03A | Glass 120ml/4oz unpreserved | A | NA | | 3.9 | Υ | Absent | | AS-TI(180),BA-TI(180),AG-TI(180),CR- TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD- TI(180) |
| | L1942912-03B | Glass 120ml/4oz unpreserved | Α | NA | | 3.9 | Υ | Absent | | NYCP51-PAH(14),TS(7) |
| | | | | | | | | | | |



Project Name: Lab Number: LEGACY DEVELOPMENT L1942912 **Project Number:** T0395-018-001 **Report Date:** 09/20/19

GLOSSARY

Acronyms

LOQ

MS

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments

from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis

of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats

MDI - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

> - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's

reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

associated field samples.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL RL

includes any adjustments from dilutions, concentrations or moisture content, where applicable.

- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the RPD

precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less

values; although the RPD value will be provided in the report. SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the

than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEO - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound

list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name:LEGACY DEVELOPMENTLab Number:L1942912Project Number:T0395-018-001Report Date:09/20/19

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

Terms

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

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

Data Qualifiers

- A Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- ${\bf E} \qquad \hbox{-Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.}$
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- \boldsymbol{P} - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name:LEGACY DEVELOPMENTLab Number:L1942912Project Number:T0395-018-001Report Date:09/20/19

REFERENCES

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

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

LIMITATION OF LIABILITIES

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

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



Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

Serial_No:09201914:11

ID No.:17873 Revision 15

Published Date: 8/15/2019 9:53:42 AM

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Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-

Ethyltoluene

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kieldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

Pre-Qualtrax Document ID: 08-113 Document Type: Form



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| F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ | C = Cube O = Other E = Encore D = BOD Bottle | | | | | 0 | | ved By |) | 9/4 | Date/Time | | 120 | start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.) | |