RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND REVITALIZATION AND SUSTAINABLE MATERIALS MANAGEMENT
235 Promenade Street, Room 380
Providence, Rhode Island 02908

March 29, 2023

Eli Salsberry, P.E.
Hoffman Engineering, Inc
640 Ten Rod Road
North Kingstown, RI 02852

Dear Mr. Salsberry:

The Rhode Island Department of Environmental Management's (RIDEM) Office of Land Revitalization and Sustainable Materials Management (LRSMM) has reviewed your January 11, 2023 Beneficial Use Determination (BUD) application for 0 Colvintown Road, Coventry, RI and 1257 & 1260 Central Pike, Johnston RI. After reviewing the application and required data submission, we find the application acceptable.

Therefore, enclosed is the BUD approval, with conditions included, for the reuse of glass debris intermixed with soil excavated from the Colvintown Road property and used as construction road base on the Central Pike property. Your approval expires on April 5, 2024. Please submit your renewal with the required analytical testing results and supplemental data, as described in requirements 10 and 11, at least 30-days prior to the expiration date.

Sincerely,

Nathan Arruda
Environmental Scientist
Office of Land Revitalization and Sustainable Materials Management
401-222-2797, ext. 2777511

CC: Leo Hellested, Environmental Administrator – DEM/LRSMM
Mark Dennen, Supervising Environmental Scientist – DEM/LRSMM
Kasie McKenzie, Environmental Engineer – DEM/LRSMM
Robert L. Hoffman, P.E, President - Hoffman Engineering Inc.,

SOLID WASTE BENEFICIAL USE DETERMINATION (BUD)

CONDITIONS FOR RE-USE OF GLASS DEBRIS INTERMIXED WITH SOIL

April 2023

Hoffman Engineering Inc. has submitted for approval a BUD request to allow beneficial reuse of solid waste (e.g., glass) intermixed with soil to be excavated and processed from the Colvintown Road Property, then transported to the Central Pike property for use as construction road base as part of a solar array. Based upon the representations made in the application, the RIDEM Office of LRSMM hereby grants approval for the reuse of this waste under the following conditions:

1. The glass debris intermixed with soil must be handled and processed in accordance with this approval and the BUD application submitted by Hoffman Engineering, Inc. on January 11, 2023

2. A maximum of 5,000 cubic yards of glass debris intermixed with soil shall be stored on site, at the designated area according to Section 6 (a.) of the BUD application, at any time for future processing.

3. Erosion and Stormwater control measures shall be implemented according to Section 6(j) of the BUD application, with the use of a vegetative cover, silt fences and filter socks/berms.

4. RIDEM approves of the reuse of processed glass debris intermixed with soil as construction road base, as described in Section 4 of the BUD application.

5. According to the Recycling Process Flow Chart, on page 6 of the BUD application, Hoffman Engineering Inc, shall remove any foreign matter, metal, and solid waste from the excavated material and segregate these materials for off-site disposal.

6. The property owners shall provide the Department, its authorized officers, employees, and representatives, and all other persons under Department oversight, an irrevocable right of access to the site at all reasonable times for the purposes of performing inspections, investigations, testing, and examining records. The Department or other authorized designated personnel shall have the right to access the site at all reasonable times for the above-stated purposes without prior notice. Refusal to permit reasonable inspections, tests and investigations shall constitute valid grounds for denial, revocation or suspension of this BUD approval; and/or issuance of a Notice of Violation with Administrative Penalty.

7. This approval expires on April 5, 2024. Hoffman Engineering Inc. may request an annual renewal of this approval that may be granted with the approval of RIDEM's Director.

8. RIDEM's granting of this approval does not affect the responsibility of Hoffman Engineering Inc. to meet all zoning and other local ordinances and comply with any other State or Federal requirements or approvals.

9. This approval may be modified, amended, suspended, or revoked at the discretion of RIDEM.

10. The facility shall collect the following data from 1,000 cubic yard stockpiles before the material is transported:

    a. 20 Aliquot samples from around each 1,000 cubic yard stockpile will be composited and analyzed for TPH, VOC's, SVOC's, and RCRA 8 Metals, The sampling protocol shall follow the schedule as provided in Sections 9, and 11 of the BUD application.
    b. Transportation records of the soil/glass mixture, as well as the total tonnage of metals and solid waste removed during the screening process must be submitted in a finalized report upon completion of the project.

11. Hoffman Engineering Inc. must keep all records and data as discussed in number 10 of this Approval for a period of at least 1 year. All records shall be made available to representatives of the Office of LRSMM upon request. If renewal of this BUD permit is needed, an electronic copy of the previous year's records and data shall be included in the application.

_____

Leo Hellested, Environmental Administrator
Office of Land Revitalization and Sustainable Materials Management

_____

Date

January 11, 2023

RIDEM, OLRSMM
Att: Mr. Walid Ali
235 Promenade Street
Providence, RI 02908

Re: BUD Application
0 Colvintown Road, Coventry, RI
1257 & 1260 Central Pike, Johnston, RI – SR-16-2090

Dear Mr. Ali:

Hoffman Engineering, Inc. (HEI) is pleased to present this Beneficial Use Determination (BUD) Application for the two referenced properties. The property in Coventry exhibits buried solid waste debris and significant glass debris, which is intermixed with soil. This property is proposed to be developed with residential lots and a Site Investigation Report has been submitted to Ms. Kasandra McKenzie of the RIDEM Solid Waste Section. The property in Johnston is proposed to be developed with a solar array and residential homes (along Central Pike away from the beneficial use area), and this project is being completed under the RIDEM Site Remediation Section with Ms. Rachel Simpson as the project manager. The Owner of the Colvintown Road (JV-RP Realty), although a different company, is a related company of which will be purchasing the Central Pike property. In addition to this, if acceptable by the Department, the same Owner also owns the 400-acre Robin Hollow Solar Project in West Greenwich. Similarly, this material could also be utilized as road base on this project.

Purpose

The purpose of this BUD application is to obtain RIDEM variance to allow beneficial reuse of solid waste (e.g., glass) intermixed with soil to be excavated and processed from the Colvintown Road property on the Central Pike property for use as a construction road base as part of a solar array.

Site Description

The property which exhibits the intermixed soil and solid waste is:
0 Colvintown Road
Coventry, RI 02816
Coventry Plat 85/Lot 1
RIDEM SR-06-2083
This property is currently vacant land which was formerly graveled. Upon investigation, it appears the area was backfilled with a mixture of soil, household solid waste, and glass debris presumably from the nearby former Star City Glass Plant.

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The property proposed to reuse the mixture as solar array road base:

1257 & 1260 Central Pike
Johnston, RI 02919
Johnston Plat 43/Lot 70
RIDEM SR-16-2090

This property is farmland and is currently developed with a small residential home, and farm buildings such as a garage and hay barn. These structures (with the exception of the garage) are to be razed, and portions developed with residential home, with the majority of the farm fields developed with a solar array.

Due to the significant amount of material to be reused, remaining material may also be utilized as road base at the 400-acre Robin Hollow Solar Project in West Greenwich. This projects consists of the West Greenwich Tax Assessor Plat Map 10/Lots 7, 8, 9-2, 9-3, 9-4, 9-6, 9-8, 9-9, and 9-10, and Map 11/Lots 4, 5, 6, 7, and "Parcel A" which has been approved for development with approximately 183 acres (e.g., 40 MW capacity coverage) of solar panels. Similarly, another application may be provided to RIDEM for another potential beneficial use location.

Proposed Waste Reuse

As glass is considered solid waste under the Regulations, but as it is inert and is crushable, especially due to it being intermixed with soil already, it would be an efficient construction road base for the solar array. The mixture would be processed and non-glass solid waste removed. The mixture would be stockpiled and sampled to determine compliance prior to re-use at the Central Pike property in the solar array roads.

BUD Application Questions

BUD Application questions are provided below in *italics*, and specific answers are provided in red.

1. *How will any environmental hazards associated with the proposed recycling of solid waste will be minimized or eliminated?*

   The solid waste to be reused is glass (e.g., glass chunks, deformed bottles, etc.) intermixed with soil. This will be processed at the Colvintown Road property following excavation, and sampled prior to reuse on the solar array at Central Pike. Solid waste debris other than glass will be separated and disposed of off-Site at a licensed facility such as solid waste. Note, a proposed processing flow chart is provided later in this report.

2. *To what degree will the recycled solid waste material be analogous to commonly used raw materials and how will the use of this material result in a variable and beneficial substitution of a discarded material for a commercial product or raw material?*

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The glass debris is intermixed with existing soil and will remain intermixed with soil following processing. As such, the crushed glass acts as aggregate. This reduces the amount of material needing to be sent to the landfill from Colvintown Road simply because glass is classified as solid waste by definition.

3. *How will the proposed recycling and reuse of the solid waste in question protect the natural resources of the State? In addition to discussing how and to what extent the reuse of the solid waste in question will conserve the limited and finite capacity of the State's solid waste landfills, your response must also address why the proposed use of the recycled solid waste will not present a threat to public health or the State's groundwater, surface water, air, or other environmental resources.*

   The reuse of the mixture reduces the amount of inorganic (e.g., non-decomposable) material to be brought to the landfill. Unfortunately due to the amount of soil intermixed in its current state, the glass cannot be reasonably separated and recycled at a commercial facility. A composite sample of the mixture as part of the SIR was submitted for analyses of RCRA 8 Metals, Semi-Volatile Organic Compounds, Volatile Organic Compounds, Total Petroleum Hydrocarbons, Polychlorinated Biphenyls. The sample was complaint with the RDEC and GALC for these compounds. The certificate of analyses of a sample of the existing mixture is attached.

4. *To what extent is there a guaranteed end market for the recycled solid waste material to be produced?*

   The Central Pike project is able to accommodate this material as road base during its construction, which is proposed to be developed as a solar array. The current owner of the Colvintown Road property is in the process of purchasing the Central Pike property, and owns and is developing the 400-acre Robin Hollow Solar project in West Greenwich, RI. As there is only a limited amount of soil and glass mixture that Central Pike can accommodate from the Colvintown Road project, if this cannot be utilized at Central Pike, if approved by the Department, the remaining mixture could be utilized in the roadways of their Robin Hollow project or another Beneficial Use could be determined

5. *Why will the proposed recycling and reuse of solid waste not degrade the environment?*

   Noted later in this report, the processed material will be stockpiled and sampled for prior to re-use. The mixture will not be utilized if contaminants in the stockpiled mixture are in exceedance of the RIDEM Residential Direct Exposure Criteria or GA Leachability Criteria. As such,

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6. *Identify and discuss the controls (e.g., environmental, engineering, institutional, etc.) that will be used to properly and safely recycle and reuse the solid waste. This discussion should include, but not be limited to, information regarding the following:*

   a. *The quantity of solid waste material to be received and recycled, and the maximum quantity of solid waste material to be stored at the Site at any one time;*

      There is an unknown (but estimated) amount of buried solid waste, glass, and soil mixture at the Colvintown Road project. Based on test pitting work at the property, summarized in the Site Investigation Report, there is an estimated 128,000 sq. ft. footprint which exhibits buried debris. The average debris and soil mixture thickness in these test pits is 4.6-feet thick (however the majority of this layer consists of soil with a small amount of glass and/or debris).

      As such, there appears to be 21,800yd^3 $\pm$ of soil with glass and household solid waste intermixed existing at the Colvintown Road property. As such, as the area is proposed to be developed for residential purposes, the excavated soil and solid waste mixture will be screened and non-glass solid waste removed for off-Site disposal. It is unknown the amount of non-glass solid waste which will be screened out of the mixture for landfill disposal. Following screening HEI would expect the non-glass solid waste will be stored in three roll-offs on-Site (likely one roll-off for recyclable metal, and two roll-offs for other solid waste) prior to transportation to the landfill and replacement of empty roll-offs at the property.

      The remaining soil and glass mixture will be stockpiled on-Site for sampling and analyses. HEI would expect that no greater than 5,000 yd^3 of processed soil piles will be present at the property at one time (however it should be realized the remaining material is buried at the property waiting to be excavated). Note, this volume of stockpiled processed material may change base on the processing conducted and availability of beneficial use.

   b. *The maximum quantity of solid waste material to be stored at the Site at any one time;*

      See above.

   c. *The source of the solid waste, including the name and address of the generator;*

      The material will be excavated from, and processed at, the Colvintown Road property. (0 Colvintown Road, Coventry, RI 02816, Coventry Plat 85/Lot 1). This property was graveled and subsequently backfilled with the subject material, the source of which is unknown. The glass however is presumed to have originated from the nearby former Star City Glass Plant.

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d. *A detailed narrative and schematic diagram of the production, manufacturing, and/or residue process by which the waste material is produced;*

See Figure 6 from the Colvintown Site Investigation Report. Hatched in blue is the approximate anticipated footprint of the Site which exhibits buried solid waste and glass intermixed with soil. See flow chart of excavation and processing:

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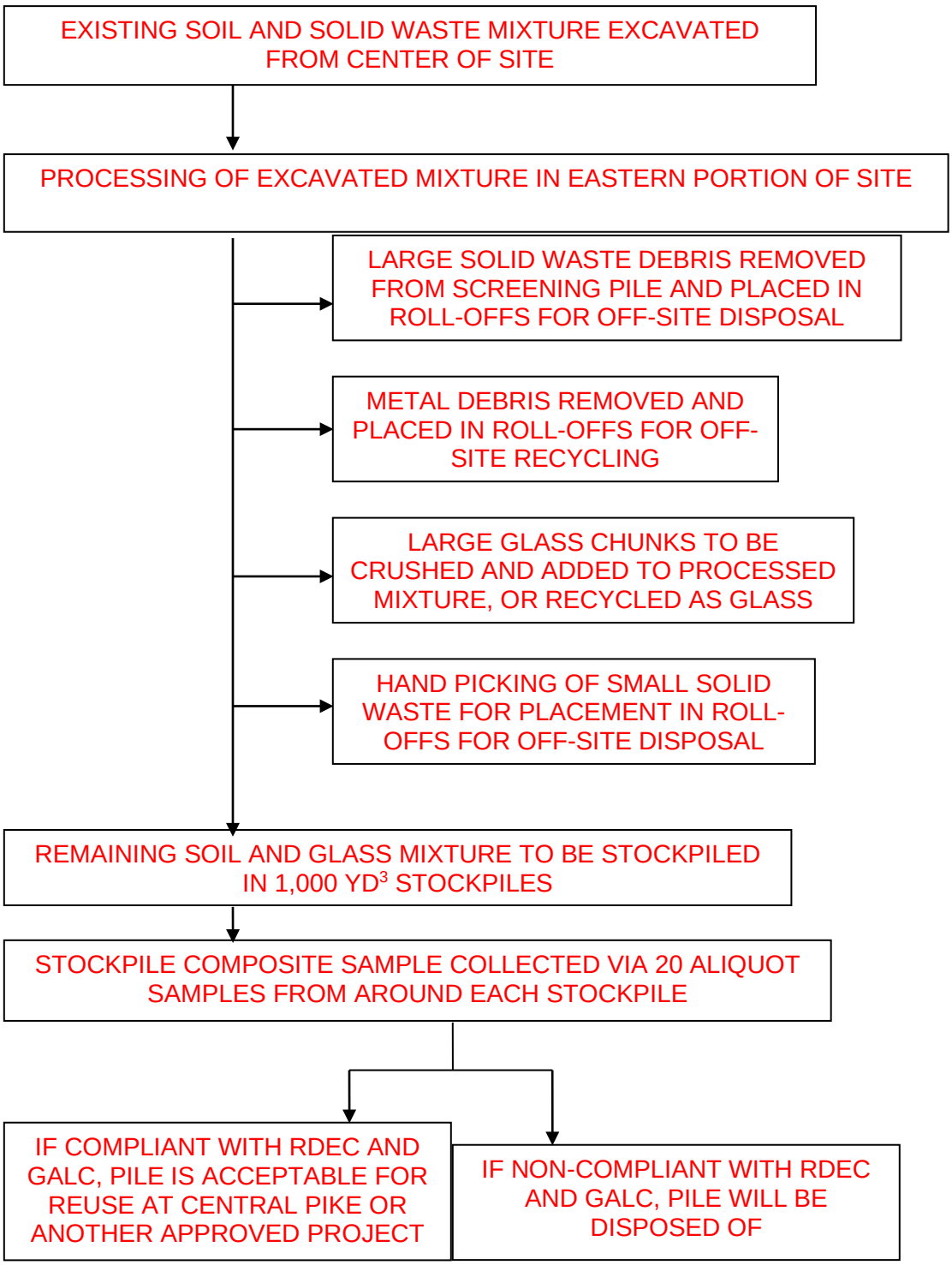
RECYCLING PROCESS FLOW CHART



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e. *The expected consistency of the waste material;*

The processed material is expected to consist of primarily fine to coarse sand and gravel, with some intermixed glass debris (which similarly would act as aggregate).

f. *How the generator has minimized the quantity and toxicity of the waste material;*

Based on previous testing, to HEI's knowledge, the soil and glass mixture does not exhibit any elevated contaminants.

g. *Adequate and regular inspection of the waste material upon receipt;*

The excavated soil mixture will be screened of solid waste and smaller solid waste will be hand-picked presumably through a trommel screen.

h. *Adequate Site controls relating to the storage, handling and processing of the waste material, including the extent to which the recycled solid waste material will be handled to minimize loss;*

All storage, handling, and processing will be done at the Colvintown Road property until compliance determination of a stockpile.

i. *Adequate controls for handling and disposing of any residual solid waste, including the location of final disposal for any residual solid wastes;*

Solid waste debris (non-glass) will be placed in roll-offs for off-Site disposal at Central Landfill. Metal debris will be recycled off-Site at a licensed recycling facility.

j. *Appropriate odor, sediment, stormwater (runoff), and erosion control measures, etc.*

To HEI's knowledge the soil and glass mixture does not exhibit an odor. Erosion control measures have already been placed as the Colvintown Road project has been cleared of trees.

7. *Explain the proposed recycling of solid waste is not simply an alternate method of disposal. The Director may require information regarding the estimated value of the solid waste material both before and after it is recycled.*

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The recycling of the mixture reduces costs for the residential development, and the Central Pike project is able to accommodate the material in their construction roadways. The processed mixture would be determined compliant with the RDEC and would act as aggregate base therefore reducing requirements to quarry virgin material.

8. *What degree of processing has the solid waste material undergone and degree of further processing is required, if any? The applicant must demonstrate that any mixing of different types of material improves the usefulness of the recycled solid waste material.*

   The existing buried material to HEI's knowledge has not been processed, and is sporadically mixed. Following excavation, noted in the flow chart above, processing would consist of screening and hand picking non-glass solid waste from the soil mixture. The processed mixture would then be sampled for compliance determination.

9. *Where the project in question includes the reuse of any soil impacted by known or suspected contamination, or the use of any recycled solid waste as a "Manufactured soil product" (i.e.: solid waste that is or has been altered or rendered into a material with soil type properties), the applicant must demonstrate the use of these materials at the location in question:*

   To HEI's knowledge, based on prior testing, the soil and glass mixture is complaint with the RDEC and GALC. This will be subsequently confirmed via analytical testing following processing and stockpiling on-Site prior to off-Site use on the solar array (or at another project upon Department approval).

10. *Whenever the proposed end of use for a recycled product involves land application, the applicant shall address the need for applicable engineering standards and controls in accordance with the Solid Waste Regulations (e.g., final cover systems, leachate collection and removal systems, and gas control and recovery systems) to provide for the safe land application and end use of BUD materials. End uses involving land application shall be presumed to be low utility uses subject to heightened scrutiny as to whether the use constitutes beneficial reuse or is simply an alternative means of disposal.*

    There is no proposed landfilling at this time other than the non-glass (and non-recyclable) solid waste removed from the soil mixture (e.g., the sporadic household trash). This material will be transported to Central Landfill for disposal as solid waste.

11. *Provide a characterization plan that includes protocols for sample collection and analyses designed to provide a representative characterization of the waste material. The characterization plan shall address:*
    a. *How the samples will be collected (i.e., locations, times, frequency per volume, etc.).*

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Following processing, piles will be stockpiled in approximate 1,000 yd^3 stockpiles on-Site for sample collection. From each stockpile, 20 aliquot grab samples will be collected and mixed to create a composite sample indicative of the stockpile. This composite sample will be analyzed for EPA Method 8100 Total Petroleum Hydrocarbons, EPA Method 8260 Volatile Organic Compounds, EPA Method 8270 Semi-Volatile Organic Compounds, and RCRA 8 Metals. The sample results will be compared to the RIDEM RDEC and GALC.

b. *The types of samples to be collected (i.e., discrete, grab, composite, etc.).*

See note in 11.(a) above.

c. *How substances in the solid waste will be identified.*

See note in 11.(a) above. Non-glass solid waste will be removed during the screening process.

d. *The physical and chemical analyses to be performed (i.e. size, density, percent solids, liquid content, pH, reactivity, leachabilty [TCLP test], etc.).*

See note in 11.(a) above.

e. *Analysis for biological properties of the waste (i.e., pathogens).*

N/A

f. *The variability of the substances present in the solid waste.*

The processed material will consist of soil intermixed with small pieces of glass.

g. *The number of samples required (grab and/or composite) to be collected and analyzed in order to adequately determine the physical, chemical, and biological properties of the waste.*

See note in 11.(a) above.

h. *The human health and ecological risks associated with the proposed reuse of the solid waste in the proposed manner and location.*

The material will be utilized if compliant with the RDEC and GALC. As such, there are no risks to human health or the environment once placed.

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i. *Verification that the sampling and analytical methods used have identified all constituents present in the waste, and a detailed written report describing the concentration and distribution of all substances which may be contained in the waste material.*

There were no exceedances in the waste material identified as part of the SIR. The sampling of the processed material is to verify that the most common contaminants are not present in the stockpiles prior to reuse.

12. *Any person involved in the storage, handling, processing or use of solid waste for beneficial reuse shall be required to provided financial assurance that:*
    a. *The project approved in the BUD will be completed; and/or*
    b. *Any unused solid waste/beneficial reuse material will be properly removed and disposed of upon completion of the project or of project operations cease for any reason.*

Please comment on the financial assurance requirements. Both projects (e.g., Colvintown Road and Central Pike) are under current RIDEM oversight.

13. *Additional information, as required, at the discretion of the Department.*

N/A

14. *Certify that the application, the facility(ies) where the solid waste is processed for reuse and the facility(ies) where the processed material is to be used are not the subject of any actual or potential statutory or regulatory environmental violations (state or federal), or, if actual or potential violations exist, that the processing of the waste or its use are part of a final settlement or remedy approved by RIDEM.*

Both properties are under RIDEM oversight. The Central Pike project is RIDEM project number SR-16-2090. The Colvintown Road project is project number SR-06-2083. The excavation and off-Site disposal of the solid waste is required for the Colvintown Road project, and development with the solar array is part of the remedial approval for the Central Pike project.

The vast majority of the overall Robin Hollow Solar Project, which could also utilize the processed soil mixture as road base, is not part of a OLRSMM project. A small portion of the solar development exhibits impacts on a right-of-way (e.g., Brandt Trail) by an off-Site, but adjacent, junkyard (e.g., Highway Auto Parts). A release notification was submitted to RIDEM and Ms. Stephanie Cappelli was the project manager. Since her departure from the Department, HEI is not aware if a new project manager has been assigned.

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As noted above, there is a larger volume of anticipated processed material which is to be generated from the Colvintown Road project which cannot be accommodated at the Central Pike project. As such, a supplemental reuse application for another project may be provided to RIDEM based on the success of the aforementioned work.

If you have any questions, please give us a call at 401-294-9032.

Sincerely,

Hoffman Engineering, Inc.
Robert L Hoffman
Robert L. Hoffman, P.E.
President

CC: Ms. Rachel Simpson, RIDEM Site Remediation
Ms. Kasandra McKenzie, RIDEM Solid Waste Section

Attachments: Colvintown SIR Figure 6
Existing Mixture Certificate of Analyses

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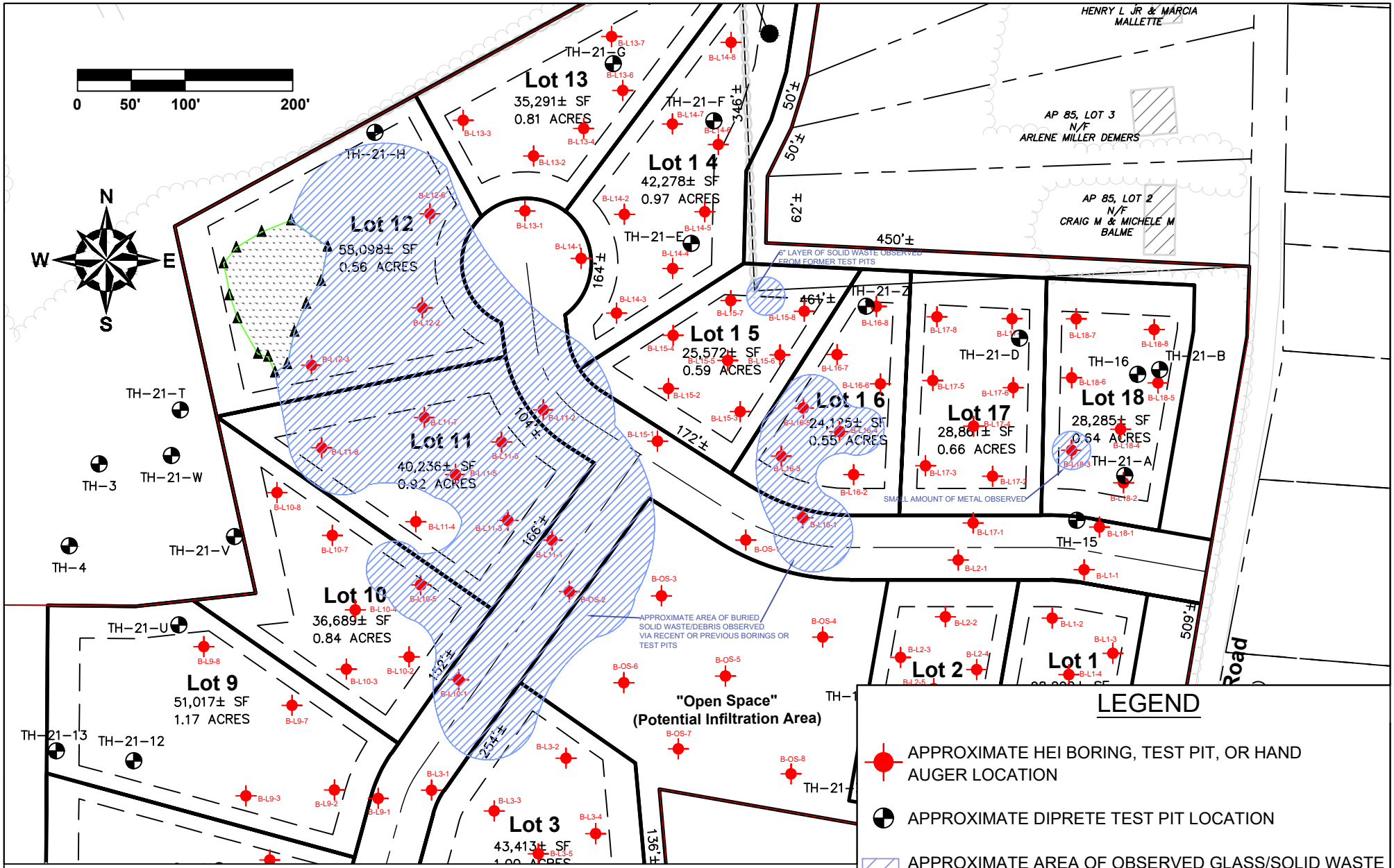

LEGEND

- APPROXIMATE HEI BORING, TEST PIT, OR HAND AUGER LOCATION
- APPROXIMATE DIPRETE TEST PIT LOCATION
- APPROXIMATE AREA OF OBSERVED GLASS/SOLID WASTE (DOES NOT INCLUDE AREAS OF SURFICIAL DEBRIS)

BASE MAP PLAN: DIPRETE ENGINEERING SITE LAYOUT PLAN - CLUSTER RENDERING DATED APRIL 22, 2021

HEI HOFFMAN ENGINEERING, INC.
640 Ten Rod Rd.
North Kingstown, RI 02852

BORING LOCATION PLAN
OFF OF COLVINTOWN ROAD
PLAT 85 LOTS 1 & 5.3
COVENTRY,RHODE ISLAND

DATE: 7-28-22	NORTH: SEE FIGURE
SCALE: SEE FIGURE	FIGURE NO.: 6
	HEI JOB NO.: 20-18

New England Testing Laboratory, Inc.
(401) 353-3420

REPORT OF ANALYTICAL RESULTS

NETLAB Work Order Number: 2G01005
Client Project: Colvintown Road

Report Date: 14-July-2022

Prepared for:

Bob Hoffman
Hoffman Engineering
640 Ten Rod Road
North Kingstown, RI 02852

Richard Warila, Laboratory Director
New England Testing Laboratory, Inc.
59 Greenhill Street
West Warwick, RI 02893
rich.warila@newenglandtesting.com

Samples Submitted :

The samples listed below were submitted to New England Testing Laboratory on 07/01/22. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provided to us by the client which are indicated on the custody record. The case number for this sample submission is 2G01005. Custody records are included in this report.

Lab ID	Sample	Matrix	Date Sampled	Date Received
2G01005-01	3081, 3091, 3093, 3094, Glass Layer	Soil	07/01/2022	07/01/2022

Request for Analysis

At the client's request, the analyses presented in the following table were performed on the samples submitted.

3081, 3091, 3093, 3094, Glass Layer (Lab Number: 2G01005-01)

Analysis	Method
Arsenic	EPA 6010C
Barium	EPA 6010C
Cadmium	EPA 6010C
Chromium	EPA 6010C
Flashpoint	EPA 1010A-Mod
Lead	EPA 6010C
Mercury	EPA 7471B
PCBs	EPA 8082A
Percent Total Solids	Gravimetric
pH	SM4500-H-B (11)
Selenium	EPA 6010C
Semivolatile Organic Compounds	EPA 8270D
Silver	EPA 6010C
Total Petroleum Hydrocarbons	EPA-8100-mod
Volatile Organic Compounds	EPA 8260C

Method References

Standard Methods for the Examination of Water and Wastewater, 20th Edition, APHA/ AWWA-WPCF, 1998

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, USEPA

Case Narrative

Sample Receipt:

The samples associated with this work order were received in appropriately cooled and preserved containers. The chain of custody was adequately completed and corresponded to the samples submitted.

Exceptions: None

Analysis:

All samples were prepared and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control requirements and allowances. Results for all soil samples, unless otherwise indicated, are reported on a dry weight basis.

Exceptions: Sample 8260 :"3081, 3091, 3093, 3094, Glass Layer" was prepared using bulk material provided by the client.

Results: General Chemistry

Sample: 3081, 3091, 3093, 3094, Glass Layer

Lab Number: 2G01005-01 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Solids, Percent	**90.7**		0.05	Percent	07/05/22	07/05/22
Flashpoint	> 200		70	degrees F	07/11/22	07/11/22
pH	**8.6**			SU	07/05/22	07/05/22

Results: Total Metals

Sample: 3081, 3091, 3093, 3094, Glass Layer

Lab Number: 2G01005-01 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Arsenic	**1.54**		1.00	mg/kg	07/06/22	07/11/22
Barium	**103**		0.33	mg/kg	07/06/22	07/11/22
Cadmium	ND		0.50	mg/kg	07/06/22	07/11/22
Chromium	**14.0**		0.50	mg/kg	07/06/22	07/11/22
Lead	**24.6**		0.50	mg/kg	07/06/22	07/11/22
Mercury	ND		0.037	mg/kg	07/08/22	07/08/22
Selenium	ND		1.00	mg/kg	07/06/22	07/11/22
Silver	ND		1.00	mg/kg	07/06/22	07/11/22

Results: Volatile Organic Compounds

Sample: 3081, 3091, 3093, 3094, Glass Layer

Lab Number: 2G01005-01 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		331	ug/kg	07/13/22	07/13/22
Benzene	ND		66	ug/kg	07/13/22	07/13/22
Bromobenzene	ND		66	ug/kg	07/13/22	07/13/22
Bromochloromethane	ND		66	ug/kg	07/13/22	07/13/22
Bromodichloromethane	ND		66	ug/kg	07/13/22	07/13/22
Bromoform	ND		66	ug/kg	07/13/22	07/13/22
Bromomethane	ND		66	ug/kg	07/13/22	07/13/22
2-Butanone	ND		331	ug/kg	07/13/22	07/13/22
tert-Butyl alcohol	ND		331	ug/kg	07/13/22	07/13/22
sec-Butylbenzene	ND		66	ug/kg	07/13/22	07/13/22
n-Butylbenzene	ND		66	ug/kg	07/13/22	07/13/22
tert-Butylbenzene	ND		66	ug/kg	07/13/22	07/13/22
Methyl t-butyl ether (MTBE)	ND		66	ug/kg	07/13/22	07/13/22
Carbon Disulfide	ND		66	ug/kg	07/13/22	07/13/22
Carbon Tetrachloride	ND		66	ug/kg	07/13/22	07/13/22
Chlorobenzene	ND		66	ug/kg	07/13/22	07/13/22
Chloroethane	ND		66	ug/kg	07/13/22	07/13/22
Chloroform	ND		66	ug/kg	07/13/22	07/13/22
Chloromethane	ND		66	ug/kg	07/13/22	07/13/22
4-Chlorotoluene	ND		66	ug/kg	07/13/22	07/13/22
2-Chlorotoluene	ND		66	ug/kg	07/13/22	07/13/22
1,2-Dibromo-3-chloropropane (DBCP)	ND		66	ug/kg	07/13/22	07/13/22
Dibromochloromethane	ND		66	ug/kg	07/13/22	07/13/22
1,2-Dibromoethane (EDB)	ND		66	ug/kg	07/13/22	07/13/22
Dibromomethane	ND		66	ug/kg	07/13/22	07/13/22
1,2-Dichlorobenzene	ND		66	ug/kg	07/13/22	07/13/22
1,3-Dichlorobenzene	ND		66	ug/kg	07/13/22	07/13/22
1,4-Dichlorobenzene	ND		66	ug/kg	07/13/22	07/13/22
1,1-Dichloroethane	ND		66	ug/kg	07/13/22	07/13/22
1,2-Dichloroethane	ND		66	ug/kg	07/13/22	07/13/22
trans-1,2-Dichloroethene	ND		66	ug/kg	07/13/22	07/13/22
cis-1,2-Dichloroethene	ND		66	ug/kg	07/13/22	07/13/22
1,1-Dichloroethene	ND		66	ug/kg	07/13/22	07/13/22
1,2-Dichloropropane	ND		66	ug/kg	07/13/22	07/13/22
2,2-Dichloropropane	ND		66	ug/kg	07/13/22	07/13/22
cis-1,3-Dichloropropene	ND		66	ug/kg	07/13/22	07/13/22
trans-1,3-Dichloropropene	ND		66	ug/kg	07/13/22	07/13/22
1,1-Dichloropropene	ND		66	ug/kg	07/13/22	07/13/22
1,3-Dichloropropene (cis + trans)	ND		132	ug/kg	07/13/22	07/13/22
Diethyl ether	ND		331	ug/kg	07/13/22	07/13/22
1,4-Dioxane	ND		6620	ug/kg	07/13/22	07/13/22
Ethylbenzene	ND		66	ug/kg	07/13/22	07/13/22
Hexachlorobutadiene	ND		66	ug/kg	07/13/22	07/13/22
2-Hexanone	ND		331	ug/kg	07/13/22	07/13/22
Isopropylbenzene	ND		66	ug/kg	07/13/22	07/13/22
p-Isopropyltoluene	ND		66	ug/kg	07/13/22	07/13/22
Methylene Chloride	ND		132	ug/kg	07/13/22	07/13/22
4-Methyl-2-pentanone	ND		331	ug/kg	07/13/22	07/13

Results: Volatile Organic Compounds (Continued)

Sample: 3081, 3091, 3093, 3094, Glass Layer (Continued)

Lab Number: 2G01005-01 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Naphthalene	ND		66	ug/kg	07/13/22	07/13/22
n-Propylbenzene	ND		66	ug/kg	07/13/22	07/13/22
Styrene	ND		66	ug/kg	07/13/22	07/13/22
1,1,1,2-Tetrachloroethane	ND		66	ug/kg	07/13/22	07/13/22
Tetrachloroethene	ND		66	ug/kg	07/13/22	07/13/22
Tetrahydrofuran	ND		331	ug/kg	07/13/22	07/13/22
Toluene	ND		66	ug/kg	07/13/22	07/13/22
1,2,4-Trichlorobenzene	ND		66	ug/kg	07/13/22	07/13/22
1,2,3-Trichlorobenzene	ND		66	ug/kg	07/13/22	07/13/22
1,1,2-Trichloroethane	ND		66	ug/kg	07/13/22	07/13/22
1,1,1-Trichloroethane	ND		66	ug/kg	07/13/22	07/13/22
Trichloroethene	ND		66	ug/kg	07/13/22	07/13/22
1,2,3-Trichloropropane	ND		66	ug/kg	07/13/22	07/13/22
1,3,5-Trimethylbenzene	ND		66	ug/kg	07/13/22	07/13/22
1,2,4-Trimethylbenzene	ND		66	ug/kg	07/13/22	07/13/22
Vinyl Chloride	ND		66	ug/kg	07/13/22	07/13/22
o-Xylene	ND		66	ug/kg	07/13/22	07/13/22
m&p-Xylene	ND		132	ug/kg	07/13/22	07/13/22
Total xylenes	ND		66	ug/kg	07/13/22	07/13/22
1,1,2,2-Tetrachloroethane	ND		66	ug/kg	07/13/22	07/13/22
tert-Amyl methyl ether	ND		66	ug/kg	07/13/22	07/13/22
1,3-Dichloropropane	ND		66	ug/kg	07/13/22	07/13/22
Ethyl tert-butyl ether	ND		66	ug/kg	07/13/22	07/13/22
Diisopropyl ether	ND		66	ug/kg	07/13/22	07/13/22
Trichlorofluoromethane	ND		66	ug/kg	07/13/22	07/13/22
Dichlorodifluoromethane	ND		66	ug/kg	07/13/22	07/13/22

Surrogate(s)	Recovery%	Limits		
4-Bromofluorobenzene	*89.8%*	*70-130*	07/13/22	07/13/22
1,2-Dichloroethane-d4	*101%*	*70-130*	07/13/22	07/13/22
Toluene-d8	*95.5%*	*70-130*	07/13/22	07/13/22

Results: Semivolatile organic compounds

Sample: 3081, 3091, 3093, 3094, Glass Layer

Lab Number: 2G01005-01 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
1,2,4-Trichlorobenzene	ND		142	ug/kg	07/05/22	07/07/22
1,2-Dichlorobenzene	ND		142	ug/kg	07/05/22	07/07/22
1,3-Dichlorobenzene	ND		142	ug/kg	07/05/22	07/07/22
1,4-Dichlorobenzene	ND		142	ug/kg	07/05/22	07/07/22
Phenol	ND		142	ug/kg	07/05/22	07/07/22
2,4,5-Trichlorophenol	ND		142	ug/kg	07/05/22	07/07/22
2,4,6-Trichlorophenol	ND		142	ug/kg	07/05/22	07/07/22
2,4-Dichlorophenol	ND		142	ug/kg	07/05/22	07/07/22
2,4-Dimethylphenol	ND		361	ug/kg	07/05/22	07/07/22
2,4-Dinitrophenol	ND		361	ug/kg	07/05/22	07/07/22
2,4-Dinitrotoluene	ND		142	ug/kg	07/05/22	07/07/22
2,6-Dinitrotoluene	ND		142	ug/kg	07/05/22	07/07/22
2-Chloronaphthalene	ND		142	ug/kg	07/05/22	07/07/22
2-Chlorophenol	ND		142	ug/kg	07/05/22	07/07/22
2-Methylnaphthalene	ND		142	ug/kg	07/05/22	07/07/22
Nitrobenzene	ND		142	ug/kg	07/05/22	07/07/22
2-Methylphenol	ND		142	ug/kg	07/05/22	07/07/22
2-Nitroaniline	ND		142	ug/kg	07/05/22	07/07/22
2-Nitrophenol	ND		361	ug/kg	07/05/22	07/07/22
3,3'-Dichlorobenzidine	ND		361	ug/kg	07/05/22	07/07/22
3-Nitroaniline	ND		142	ug/kg	07/05/22	07/07/22
4,6-Dinitro-2-methylphenol	ND		361	ug/kg	07/05/22	07/07/22
4-Bromophenyl phenyl ether	ND		142	ug/kg	07/05/22	07/07/22
4-Chloro-3-methylphenol	ND		142	ug/kg	07/05/22	07/07/22
4-Chloroaniline	ND		142	ug/kg	07/05/22	07/07/22
4-Chlorophenyl phenyl ether	ND		142	ug/kg	07/05/22	07/07/22
4-Nitroaniline	ND		142	ug/kg	07/05/22	07/07/22
4-Nitrophenol	ND		361	ug/kg	07/05/22	07/07/22
Acenaphthene	ND		142	ug/kg	07/05/22	07/07/22
Acenaphthylene	ND		142	ug/kg	07/05/22	07/07/22
Aniline	ND		142	ug/kg	07/05/22	07/07/22
Anthracene	ND		142	ug/kg	07/05/22	07/07/22
Benzo(a)anthracene	ND		142	ug/kg	07/05/22	07/07/22
Benzo(a)pyrene	ND		142	ug/kg	07/05/22	07/07/22
Benzo(b)fluoranthene	ND		142	ug/kg	07/05/22	07/07/22
Benzo(g,h,i)perylene	ND		142	ug/kg	07/05/22	07/07/22
Benzo(k)fluoranthene	ND		142	ug/kg	07/05/22	07/07/22
Benzoic acid	ND		1090	ug/kg	07/05/22	07/07/22
Biphenyl	ND		44	ug/kg	07/05/22	07/07/22
Bis(2-chloroethoxy)methane	ND		142	ug/kg	07/05/22	07/07/22
Bis(2-chloroethyl)ether	ND		142	ug/kg	07/05/22	07/07/22
Bis(2-chloroisopropyl)ether	ND		142	ug/kg	07/05/22	07/07/22
Bis(2-ethylhexyl)phthalate	ND		438	ug/kg	07/05/22	07/07/22
Butyl benzyl phthalate	ND		142	ug/kg	07/05/22	07/07/22
Chrysene	ND		142	ug/kg	07/05/22	07/07/22
Di(n)octyl phthalate	ND		219	ug/kg	07/05/22	07/07/22
Dibenz(a,h)anthracene	ND		142	ug/kg	07/05/22	07/07/22
Dibenzofuran	ND		142	ug/kg	07/05/22	07/07/22

Results: Semivolatile organic compounds (Continued)

Sample: 3081, 3091, 3093, 3094, Glass Layer (Continued)

Lab Number: 2G01005-01 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Diethyl phthalate	ND		142	ug/kg	07/05/22	07/07/22
Dimethyl phthalate	ND		361	ug/kg	07/05/22	07/07/22
Di-n-butylphthalate	ND		219	ug/kg	07/05/22	07/07/22
Fluoranthene	ND		142	ug/kg	07/05/22	07/07/22
Fluorene	ND		142	ug/kg	07/05/22	07/07/22
Hexachlorobenzene	ND		142	ug/kg	07/05/22	07/07/22
Hexachlorobutadiene	ND		142	ug/kg	07/05/22	07/07/22
Hexachlorocyclopentadiene	ND		361	ug/kg	07/05/22	07/07/22
Hexachloroethane	ND		142	ug/kg	07/05/22	07/07/22
Indeno(1,2,3-cd)pyrene	ND		142	ug/kg	07/05/22	07/07/22
Isophorone	ND		142	ug/kg	07/05/22	07/07/22
Naphthalene	ND		142	ug/kg	07/05/22	07/07/22
N-Nitrosodimethylamine	ND		142	ug/kg	07/05/22	07/07/22
N-Nitrosodi-n-propylamine	ND		142	ug/kg	07/05/22	07/07/22
N-Nitrosodiphenylamine	ND		142	ug/kg	07/05/22	07/07/22
Pentachlorophenol	ND		361	ug/kg	07/05/22	07/07/22
Phenanthrene	ND		142	ug/kg	07/05/22	07/07/22
Pyrene	ND		142	ug/kg	07/05/22	07/07/22
m&p-Cresol	ND		285	ug/kg	07/05/22	07/07/22
Pyridine	ND		142	ug/kg	07/05/22	07/07/22
Total Dichlorobenzene	ND		142	ug/kg	07/05/22	07/07/22

Surrogate(s)	Recovery%	Limits		
Nitrobenzene-d5	*38.7%*	*30-126*	07/05/22	07/07/22
p-Terphenyl-d14	*62.9%*	*47-130*	07/05/22	07/07/22
2-Fluorobiphenyl	*53.7%*	*34-130*	07/05/22	07/07/22
Phenol-d6	*49.6%*	*30-130*	07/05/22	07/07/22
2,4,6-Tribromophenol	*67.5%*	*30-130*	07/05/22	07/07/22
2-Fluorophenol	*54.1%*	*30-130*	07/05/22	07/07/22

Results: Polychlorinated Biphenyls (PCBs)

Sample: 3081, 3091, 3093, 3094, Glass Layer

Lab Number: 2G01005-01 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Aroclor-1016	ND		71	ug/kg	07/05/22	07/06/22
Aroclor-1221	ND		71	ug/kg	07/05/22	07/06/22
Aroclor-1232	ND		71	ug/kg	07/05/22	07/06/22
Aroclor-1242	ND		71	ug/kg	07/05/22	07/06/22
Aroclor-1248	ND		71	ug/kg	07/05/22	07/06/22
Aroclor-1254	ND		71	ug/kg	07/05/22	07/06/22
Aroclor-1260	ND		71	ug/kg	07/05/22	07/06/22
Aroclor-1262	ND		71	ug/kg	07/05/22	07/06/22
Aroclor-1268	ND		71	ug/kg	07/05/22	07/06/22
PCBs (Total)	ND		71	ug/kg	07/05/22	07/06/22

Surrogate(s)	Recovery%	Limits		
2,4,5,6-Tetrachloro-m-xylene (TCMX)	*100%*	*36.2-130*	07/05/22	07/06/22
Decachlorobiphenyl (DCBP)	*93.6%*	*43.3-130*	07/05/22	07/06/22

Results: Total Petroleum Hydrocarbons

Sample: 3081, 3091, 3093, 3094, Glass Layer

Lab Number: 2G01005-01 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Total Petroleum Hydrocarbons	**40**		28	mg/kg	07/06/22	07/07/22
Surrogate(s)	Recovery%		Limits			
Chlorooctadecane	*70.5%*		*50-130*		07/06/22	07/07/22

Quality Control

General Chemistry

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B2G0083 - pH										
LCS (B2G0083-BS1)					Prepared & Analyzed: 07/05/22					
pH	7.0			SU	7.00		100	0-200		
LCS (B2G0083-BS2)					Prepared & Analyzed: 07/05/22					
pH	7.0			SU	7.00		100	0-200		
Duplicate (B2G0083-DUP1)		Source: 2G01005-01			Prepared & Analyzed: 07/05/22					
pH	8.6			SU		8.6			0.116	200
Batch: B2G0247 - Flashpoint-EPA 1010A-Mod										
LCS (B2G0247-BS1)					Prepared & Analyzed: 07/07/22					
Flashpoint	80		70	degrees F	80.0		99.8	90-110		
Duplicate (B2G0247-DUP1)		Source: 2F27044-01			Prepared & Analyzed: 07/07/22					
Flashpoint	> 200		70	degrees F		ND				20

Quality Control
(Continued)

Total Metals

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B2G0210 - Metals Digestion Soils										
Blank (B2G0210-BLK1)					Prepared: 07/06/22 Analyzed: 07/13/22					
Cadmium	ND		0.50	mg/kg						
Selenium	ND		1.00	mg/kg						
Lead	ND		0.50	mg/kg						
Chromium	ND		0.50	mg/kg						
Arsenic	ND		1.00	mg/kg						
Barium	ND		0.33	mg/kg						
Silver	ND		1.00	mg/kg						
LCS (B2G0210-BS1)					Prepared: 07/06/22 Analyzed: 07/13/22					
Barium	87.2		0.33	mg/kg	100		87.2	85-115		
Chromium	95.3		0.50	mg/kg	100		95.3	85-115		
Lead	93.8		0.50	mg/kg	100		93.8	85-115		
Arsenic	19.1		1.00	mg/kg	20.0		95.7	85-115		
Selenium	21.1		1.00	mg/kg	20.0		106	85-115		
Cadmium	97.0		0.50	mg/kg	100		97.0	85-115		
Silver	40.5		1.00	mg/kg	40.0		101	85-115		
Batch: B2G0347 - Metals Cold-Vapor Mercury										
Blank (B2G0347-BLK1)					Prepared & Analyzed: 07/08/22					
Mercury	ND		0.035	mg/kg						
LCS (B2G0347-BS1)					Prepared & Analyzed: 07/08/22					
Mercury	0.074		0.035	mg/kg	0.0714		104	93-114		

Volatile Organic Compounds

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B2G0587 - Purge-Trap										
Blank (B2G0587-BLK1)					Prepared & Analyzed: 07/13/22					
Acetone	ND		5	ug/kg						
Benzene	ND		1	ug/kg						
Bromobenzene	ND		1	ug/kg						
Bromochloromethane	ND		1	ug/kg						
Bromodichloromethane	ND		1	ug/kg						
Bromoform	ND		1	ug/kg						
Bromomethane	ND		1	ug/kg						
2-Butanone	ND		5	ug/kg						
tert-Butyl alcohol	ND		5	ug/kg						
sec-Butylbenzene	ND		1	ug/kg						
n-Butylbenzene	ND		1	ug/kg						
tert-Butylbenzene	ND		1	ug/kg						
Methyl t-butyl ether (MTBE)	ND		1	ug/kg						
Carbon Disulfide	ND		1	ug/kg						
Carbon Tetrachloride	ND		1	ug/kg						
Chlorobenzene	ND		1	ug/kg						
Chloroethane	ND		1	ug/kg						
Chloroform	ND		1	ug/kg						
Chloromethane	ND		1	ug/kg						
4-Chlorotoluene	ND		1	ug/kg						
2-Chlorotoluene	ND		1	ug/kg						
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	ug/kg						
Dibromochloromethane	ND		1	ug/kg						
1,2-Dibromoethane (EDB)	ND		1	ug/kg						
Dibromomethane	ND		1	ug/kg						
1,2-Dichlorobenzene	ND		1	ug/kg						
1,3-Dichlorobenzene	ND		1	ug/kg						
1,4-Dichlorobenzene	ND		1	ug/kg						
1,1-Dichloroethane	ND		1	ug/kg						
1,2-Dichloroethane	ND		1	ug/kg						
trans-1,2-Dichloroethene	ND		1	ug/kg						
cis-1,2-Dichloroethene	ND		1	ug/kg						
1,1-Dichloroethene	ND		1	ug/kg						
1,2-Dichloropropane	ND		1	ug/kg						
2,2-Dichloropropane	ND		1	ug/kg						
cis-1,3-Dichloropropene	ND		1	ug/kg						
trans-1,3-Dichloropropene	ND		1	ug/kg						
1,1-Dichloropropene	ND		1	ug/kg						
1,3-Dichloropropene (cis + trans)	ND		2	ug/kg						
Diethyl ether	ND		5	ug/kg						
1,4-Dioxane	ND		100	ug/kg						
Ethylbenzene	ND		1	ug/kg						
Hexachlorobutadiene	ND		1	ug/kg						
2-Hexanone	ND		5	ug/kg						
Isopropylbenzene	ND		1	ug/kg						
p-Isopropyltoluene	ND		1	ug/kg						
Methylene Chloride	ND		2	ug/kg						
4-Methyl-2-pentanone	ND		5	ug/kg						
Naphthalene	ND		1	ug/kg						
n-Propylbenzene	ND		1	ug/kg						
Styrene	ND		1	ug/kg						
1,1,1,2-Tetrachloroethane	ND		1	ug/kg						
Tetrachloroethene	ND		1	ug/kg						
Tetrahydrofuran	ND		5	ug/kg						
Toluene	ND		1	ug/kg						
1,2,4-Trichlorobenzene	ND		1	ug/kg						
1,2,3-Trichlorobenzene	ND		1	ug/kg						

Volatile Organic Compounds (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B2G0587 - Purge-Trap (Continued)										
Blank (B2G0587-BLK1)					Prepared & Analyzed: 07/13/22					
1,1,2-Trichloroethane	ND		1	ug/kg						
1,1,1-Trichloroethane	ND		1	ug/kg						
Trichloroethene	ND		1	ug/kg						
1,2,3-Trichloropropane	ND		1	ug/kg						
1,3,5-Trimethylbenzene	ND		1	ug/kg						
1,2,4-Trimethylbenzene	ND		1	ug/kg						
Vinyl Chloride	ND		1	ug/kg						
o-Xylene	ND		1	ug/kg						
m&p-Xylene	ND		2	ug/kg						
Total xylenes	ND		1	ug/kg						
1,1,2,2-Tetrachloroethane	ND		1	ug/kg						
tert-Amyl methyl ether	ND		1	ug/kg						
1,3-Dichloropropane	ND		1	ug/kg						
Ethyl tert-butyl ether	ND		1	ug/kg						
Diisopropyl ether	ND		1	ug/kg						
Trichlorofluoromethane	ND		1	ug/kg						
Dichlorodifluoromethane	ND		1	ug/kg						
Surrogate: 4-Bromofluorobenzene			*46.6*	ug/l	*50.0*		*93.3*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4			*47.5*	ug/l	*50.0*		*95.1*	*70-130*		
Surrogate: Toluene-d8			*47.8*	ug/l	*50.0*		*95.7*	*70-130*		
LCS (B2G0587-BS1)					Prepared & Analyzed: 07/13/22					
Acetone	42			ug/l	50.0		83.5	70-130		
Benzene	47			ug/l	50.0		93.8	70-130		
Bromobenzene	48			ug/l	50.0		95.8	70-130		
Bromochloromethane	46			ug/l	50.0		91.2	70-130		
Bromodichloromethane	45			ug/l	50.0		89.7	70-130		
Bromoform	51			ug/l	50.0		101	70-130		
Bromomethane	20			ug/l	50.0		39.8	70-130		
2-Butanone	45			ug/l	50.0		89.6	70-130		
tert-Butyl alcohol	47			ug/l	50.0		93.3	70-130		
sec-Butylbenzene	52			ug/l	50.0		103	70-130		
n-Butylbenzene	57			ug/l	50.0		114	70-130		
tert-Butylbenzene	51			ug/l	50.0		102	70-130		
Methyl t-butyl ether (MTBE)	47			ug/l	50.0		94.1	70-130		
Carbon Disulfide	48			ug/l	50.0		96.2	70-130		
Carbon Tetrachloride	50			ug/l	50.0		99.6	70-130		
Chlorobenzene	49			ug/l	50.0		97.9	70-130		
Chloroethane	21			ug/l	50.0		42.0	70-130		
Chloroform	40			ug/l	50.0		80.7	70-130		
Chloromethane	50			ug/l	50.0		99.2	70-130		
4-Chlorotoluene	49			ug/l	50.0		97.4	70-130		
2-Chlorotoluene	49			ug/l	50.0		98.7	70-130		
1,2-Dibromo-3-chloropropane (DBCP)	52			ug/l	50.0		104	70-130		
Dibromochloromethane	48			ug/l	50.0		95.8	70-130		
1,2-Dibromoethane (EDB)	47			ug/l	50.0		94.4	70-130		
Dibromomethane	46			ug/l	50.0		92.3	70-130		
1,2-Dichlorobenzene	49			ug/l	50.0		98.6	70-130		
1,3-Dichlorobenzene	46			ug/l	50.0		92.4	70-130		
1,4-Dichlorobenzene	52			ug/l	50.0		104	70-130		
1,1-Dichloroethane	44			ug/l	50.0		87.7	70-130		
1,2-Dichloroethane	41			ug/l	50.0		81.5	70-130		
trans-1,2-Dichloroethene	47			ug/l	50.0		93.1	70-130		
cis-1,2-Dichloroethene	45			ug/l	50.0		89.9	70-130		
1,1-Dichloroethene	50			ug/l	50.0		100	70-130		
1,2-Dichloropropane	46			ug/l	50.0		93.0	70-130		
2,2-Dichloropropane	48			ug/l	50.0		96.7	70-130		

Volatile Organic Compounds (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B2G0587 - Purge-Trap (Continued)										
LCS (B2G0587-BS1)					Prepared & Analyzed: 07/13/22					
cis-1,3-Dichloropropene	46			ug/l	50.0		92.1	70-130		
trans-1,3-Dichloropropene	45			ug/l	50.0		89.5	70-130		
1,1-Dichloropropene	51			ug/l	50.0		103	70-130		
Diethyl ether	41			ug/l	50.0		82.1	70-130		
1,4-Dioxane	50			ug/l	250		20.0	0-200		
Ethylbenzene	52			ug/l	50.0		104	70-130		
Hexachlorobutadiene	53			ug/l	50.0		105	70-130		
2-Hexanone	45			ug/l	50.0		90.1	70-130		
Isopropylbenzene	52			ug/l	50.0		105	70-130		
p-Isopropyltoluene	52			ug/l	50.0		103	70-130		
Methylene Chloride	21			ug/l	50.0		41.9	60-140		
4-Methyl-2-pentanone	46			ug/l	50.0		91.3	70-130		
Naphthalene	61			ug/l	50.0		123	70-130		
n-Propylbenzene	52			ug/l	50.0		104	70-130		
Styrene	51			ug/l	50.0		102	70-130		
1,1,1,2-Tetrachloroethane	49			ug/l	50.0		98.7	70-130		
Tetrachloroethene	57			ug/l	50.0		114	70-130		
Tetrahydrofuran	53			ug/l	50.0		106	70-130		
Toluene	49			ug/l	50.0		98.2	70-130		
1,2,4-Trichlorobenzene	52			ug/l	50.0		103	70-130		
1,2,3-Trichlorobenzene	39			ug/l	50.0		78.0	70-130		
1,1,2-Trichloroethane	47			ug/l	50.0		94.8	70-130		
1,1,1-Trichloroethane	45			ug/l	50.0		90.1	70-130		
Trichloroethene	47			ug/l	50.0		93.7	70-130		
1,2,3-Trichloropropane	47			ug/l	50.0		94.9	70-130		
1,3,5-Trimethylbenzene	51			ug/l	50.0		101	70-130		
1,2,4-Trimethylbenzene	52			ug/l	50.0		104	70-130		
Vinyl Chloride	43			ug/l	50.0		86.4	70-130		
o-Xylene	52			ug/l	50.0		103	70-130		
m&p-Xylene	107			ug/l	100		107	70-130		
1,1,2,2-Tetrachloroethane	47			ug/l	50.0		94.8	70-130		
tert-Amyl methyl ether	49			ug/l	50.0		97.6	70-130		
1,3-Dichloropropane	46			ug/l	50.0		91.6	70-130		
Ethyl tert-butyl ether	46			ug/l	50.0		93.0	70-130		
Diisopropyl ether	44			ug/l	50.0		87.7	70-130		
Trichlorofluoromethane	26			ug/l	50.0		51.7	70-130		
Dichlorodifluoromethane	36			ug/l	50.0		72.2	70-130		
Surrogate: 4-Bromofluorobenzene			*47.6*	ug/l	*50.0*		*95.1*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4			*52.8*	ug/l	*50.0*		*106*	*70-130*		
Surrogate: Toluene-d8			*49.0*	ug/l	*50.0*		*98.1*	*70-130*		

Volatile Organic Compounds (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B2G0587 - Purge-Trap (Continued)										
LCS Dup (B2G0587-BSD1)					Prepared & Analyzed: 07/13/22					
Acetone	42			ug/l	50.0		84.8	70-130	1.50	30
Benzene	48			ug/l	50.0		95.2	70-130	1.50	30
Bromobenzene	49			ug/l	50.0		98.6	70-130	2.88	30
Bromochloromethane	47			ug/l	50.0		93.7	70-130	2.70	30
Bromodichloromethane	45			ug/l	50.0		89.8	70-130	0.134	30
Bromoform	53			ug/l	50.0		107	70-130	5.47	30
Bromomethane	19			ug/l	50.0		38.1	70-130	4.47	30
2-Butanone	47			ug/l	50.0		93.4	70-130	4.09	30
tert-Butyl alcohol	46			ug/l	50.0		91.8	70-130	1.64	30
sec-Butylbenzene	53			ug/l	50.0		106	70-130	2.54	30
n-Butylbenzene	57			ug/l	50.0		113	70-130	0.844	30
tert-Butylbenzene	52			ug/l	50.0		104	70-130	1.98	30
Methyl t-butyl ether (MTBE)	48			ug/l	50.0		96.3	70-130	2.29	30
Carbon Disulfide	47			ug/l	50.0		94.3	70-130	2.00	30
Carbon Tetrachloride	49			ug/l	50.0		98.8	70-130	0.766	30
Chlorobenzene	50			ug/l	50.0		101	70-130	2.64	30
Chloroethane	21			ug/l	50.0		42.3	70-130	0.807	30
Chloroform	41			ug/l	50.0		82.7	70-130	2.40	30
Chloromethane	51			ug/l	50.0		101	70-130	1.82	30
4-Chlorotoluene	50			ug/l	50.0		101	70-130	3.31	30
2-Chlorotoluene	50			ug/l	50.0		101	70-130	2.30	30
1,2-Dibromo-3-chloropropane (DBCP)	56			ug/l	50.0		112	70-130	7.58	30
Dibromochloromethane	47			ug/l	50.0		94.8	70-130	1.07	30
1,2-Dibromoethane (EDB)	49			ug/l	50.0		97.6	70-130	3.35	30
Dibromomethane	47			ug/l	50.0		94.6	70-130	2.46	30
1,2-Dichlorobenzene	50			ug/l	50.0		101	70-130	1.97	30
1,3-Dichlorobenzene	47			ug/l	50.0		94.9	70-130	2.71	30
1,4-Dichlorobenzene	53			ug/l	50.0		106	70-130	1.85	30
1,1-Dichloroethane	44			ug/l	50.0		88.0	70-130	0.387	30
1,2-Dichloroethane	42			ug/l	50.0		83.2	70-130	2.06	30
trans-1,2-Dichloroethene	46			ug/l	50.0		92.8	70-130	0.323	30
cis-1,2-Dichloroethene	46			ug/l	50.0		91.6	70-130	1.85	30
1,1-Dichloroethene	49			ug/l	50.0		98.6	70-130	1.37	30
1,2-Dichloropropane	47			ug/l	50.0		93.8	70-130	0.857	30
2,2-Dichloropropane	48			ug/l	50.0		96.3	70-130	0.477	30
cis-1,3-Dichloropropene	46			ug/l	50.0		92.3	70-130	0.217	30
trans-1,3-Dichloropropene	46			ug/l	50.0		91.2	70-130	1.88	30
1,1-Dichloropropene	52			ug/l	50.0		104	70-130	0.775	30
Diethyl ether	45			ug/l	50.0		89.2	70-130	8.27	30
1,4-Dioxane	53			ug/l	250		21.4	0-200	6.78	40
Ethylbenzene	53			ug/l	50.0		106	70-130	1.97	30
Hexachlorobutadiene	53			ug/l	50.0		106	70-130	0.417	30
2-Hexanone	47			ug/l	50.0		94.8	70-130	5.11	30
Isopropylbenzene	54			ug/l	50.0		107	70-130	1.94	30
p-Isopropyltoluene	52			ug/l	50.0		104	70-130	1.00	30
Methylene Chloride	22			ug/l	50.0		43.2	60-140	2.96	30
4-Methyl-2-pentanone	48			ug/l	50.0		96.5	70-130	5.47	30
Naphthalene	74			ug/l	50.0		147	70-130	18.3	30
n-Propylbenzene	53			ug/l	50.0		106	70-130	2.31	30
Styrene	52			ug/l	50.0		105	70-130	2.91	30
1,1,1,2-Tetrachloroethane	51			ug/l	50.0		101	70-130	2.54	30
Tetrachloroethene	57			ug/l	50.0		113	70-130	1.00	30
Tetrahydrofuran	55			ug/l	50.0		110	70-130	3.42	30
Toluene	49			ug/l	50.0		98.4	70-130	0.264	30
1,2,4-Trichlorobenzene	54			ug/l	50.0		108	70-130	4.83	30
1,2,3-Trichlorobenzene	45			ug/l	50.0		89.7	70-130	13.9	30
1,1,2-Trichloroethane	48			ug/l	50.0		95.2	70-130	0.463	30

Quality Control
(Continued)

Volatile Organic Compounds (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B2G0587 - Purge-Trap (Continued)										
LCS Dup (B2G0587-BSD1)					Prepared & Analyzed: 07/13/22					
1,1,1-Trichloroethane	45			ug/l	50.0		90.0	70-130	0.0888	30
Trichloroethene	47			ug/l	50.0		93.2	70-130	0.578	30
1,2,3-Trichloropropane	50			ug/l	50.0		100	70-130	5.65	30
1,3,5-Trimethylbenzene	52			ug/l	50.0		104	70-130	2.78	30
1,2,4-Trimethylbenzene	54			ug/l	50.0		107	70-130	2.76	30
Vinyl Chloride	42			ug/l	50.0		84.6	70-130	2.06	30
o-Xylene	53			ug/l	50.0		105	70-130	1.98	30
m&p-Xylene	108			ug/l	100		108	70-130	1.15	30
1,1,2,2-Tetrachloroethane	50			ug/l	50.0		101	70-130	5.96	30
tert-Amyl methyl ether	50			ug/l	50.0		99.1	70-130	1.52	30
1,3-Dichloropropane	47			ug/l	50.0		93.2	70-130	1.75	30
Ethyl tert-butyl ether	47			ug/l	50.0		93.4	70-130	0.472	30
Diisopropyl ether	44			ug/l	50.0		88.0	70-130	0.364	30
Trichlorofluoromethane	27			ug/l	50.0		53.3	70-130	3.16	30
Dichlorodifluoromethane	36			ug/l	50.0		71.3	70-130	1.23	30
Surrogate: 4-Bromofluorobenzene			*48.6*	ug/l	*50.0*		*97.2*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4			*52.7*	ug/l	*50.0*		*105*	*70-130*		
Surrogate: Toluene-d8			*48.8*	ug/l	*50.0*		*97.6*	*70-130*		

Semivolatile organic compounds

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B2G0096 - EPA 3546										
Blank (B2G0096-BLK1)					Prepared: 07/05/22 Analyzed: 07/07/22					
1,2,4-Trichlorobenzene	ND		130	ug/kg						
1,2-Dichlorobenzene	ND		130	ug/kg						
1,3-Dichlorobenzene	ND		130	ug/kg						
1,4-Dichlorobenzene	ND		130	ug/kg						
Phenol	ND		130	ug/kg						
2,4,5-Trichlorophenol	ND		130	ug/kg						
2,4,6-Trichlorophenol	ND		130	ug/kg						
2,4-Dichlorophenol	ND		130	ug/kg						
2,4-Dimethylphenol	ND		330	ug/kg						
2,4-Dinitrophenol	ND		330	ug/kg						
2,4-Dinitrotoluene	ND		130	ug/kg						
2,6-Dinitrotoluene	ND		130	ug/kg						
2-Chloronaphthalene	ND		130	ug/kg						
2-Chlorophenol	ND		130	ug/kg						
2-Methylnaphthalene	ND		130	ug/kg						
Nitrobenzene	ND		130	ug/kg						
2-Methylphenol	ND		130	ug/kg						
2-Nitroaniline	ND		130	ug/kg						
2-Nitrophenol	ND		330	ug/kg						
3,3'-Dichlorobenzidine	ND		330	ug/kg						
3-Nitroaniline	ND		130	ug/kg						
4,6-Dinitro-2-methylphenol	ND		330	ug/kg						
4-Bromophenyl phenyl ether	ND		130	ug/kg						
4-Chloro-3-methylphenol	ND		130	ug/kg						
4-Chloroaniline	ND		130	ug/kg						
4-Chlorophenyl phenyl ether	ND		130	ug/kg						
4-Nitroaniline	ND		130	ug/kg						
4-Nitrophenol	ND		330	ug/kg						
Acenaphthene	ND		130	ug/kg						
Acenaphthylene	ND		130	ug/kg						
Aniline	ND		130	ug/kg						
Anthracene	ND		130	ug/kg						
Benzo(a)anthracene	ND		130	ug/kg						
Benzo(a)pyrene	ND		130	ug/kg						
Benzo(b)fluoranthene	ND		130	ug/kg						
Benzo(g,h,i)perylene	ND		130	ug/kg						
Benzo(k)fluoranthene	ND		130	ug/kg						
Benzoic acid	ND		1000	ug/kg						
Biphenyl	ND		40	ug/kg						
Bis(2-chloroethoxy)methane	ND		130	ug/kg						
Bis(2-chloroethyl)ether	ND		130	ug/kg						
Bis(2-chloroisopropyl)ether	ND		130	ug/kg						
Bis(2-ethylhexyl)phthalate	ND		400	ug/kg						
Butyl benzyl phthalate	ND		130	ug/kg						
Chrysene	ND		130	ug/kg						
Di(n)octyl phthalate	ND		200	ug/kg						
Dibenz(a,h)anthracene	ND		130	ug/kg						
Dibenzofuran	ND		130	ug/kg						
Diethyl phthalate	ND		130	ug/kg						
Dimethyl phthalate	ND		330	ug/kg						
Di-n-butylphthalate	ND		200	ug/kg						
Fluoranthene	ND		130	ug/kg						
Fluorene	ND		130	ug/kg						
Hexachlorobenzene	ND		130	ug/kg						
Hexachlorobutadiene	ND		130	ug/kg						
Hexachlorocyclopentadiene	ND		330	ug/kg						
Hexachloroethane	ND		130	ug/kg						

Semivolatile organic compounds (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B2G0096 - EPA 3546 (Continued)										
Blank (B2G0096-BLK1)					Prepared: 07/05/22 Analyzed: 07/07/22					
Indeno(1,2,3-cd)pyrene	ND		130	ug/kg						
Isophorone	ND		130	ug/kg						
Naphthalene	ND		130	ug/kg						
N-Nitrosodimethylamine	ND		130	ug/kg						
N-Nitrosodi-n-propylamine	ND		130	ug/kg						
N-Nitrosodiphenylamine	ND		130	ug/kg						
Pentachlorophenol	ND		330	ug/kg						
Phenanthrene	ND		130	ug/kg						
Pyrene	ND		130	ug/kg						
m&p-Cresol	ND		260	ug/kg						
Pyridine	ND		130	ug/kg						
Total Dichlorobenzene	ND		130	ug/kg						
Surrogate: Nitrobenzene-d5			*1460*	ug/kg	*3330*		*43.9*	*30-126*		
Surrogate: p-Terphenyl-d14			*2400*	ug/kg	*3330*		*72.1*	*47-130*		
Surrogate: 2-Fluorobiphenyl			*1860*	ug/kg	*3330*		*55.9*	*34-130*		
Surrogate: Phenol-d6			*1820*	ug/kg	*3330*		*54.6*	*30-130*		
Surrogate: 2,4,6-Tribromophenol			*1840*	ug/kg	*3330*		*55.2*	*30-130*		
Surrogate: 2-Fluorophenol			*1880*	ug/kg	*3330*		*56.3*	*30-130*		
LCS (B2G0096-BS1)					Prepared: 07/05/22 Analyzed: 07/07/22					
1,2,4-Trichlorobenzene	2180		130	ug/kg	3330		65.5	40-130		
1,2-Dichlorobenzene	2040		130	ug/kg	3330		61.1	40-130		
1,3-Dichlorobenzene	1990		130	ug/kg	3330		59.7	40-130		
1,4-Dichlorobenzene	2030		130	ug/kg	3330		60.8	40-130		
Phenol	2080		130	ug/kg	3330		62.5	40-130		
2,4,5-Trichlorophenol	2520		130	ug/kg	3330		75.7	40-130		
2,4,6-Trichlorophenol	2390		130	ug/kg	3330		71.8	40-130		
2,4-Dichlorophenol	2250		130	ug/kg	3330		67.5	40-130		
2,4-Dimethylphenol	2500		330	ug/kg	3330		75.1	40-130		
2,4-Dinitrotoluene	2750		130	ug/kg	3330		82.5	40-130		
2,6-Dinitrotoluene	2830		130	ug/kg	3330		84.9	40-130		
2-Chloronaphthalene	2390		130	ug/kg	3330		71.6	40-130		
2-Chlorophenol	2160		130	ug/kg	3330		64.9	40-130		
2-Methylnaphthalene	2190		130	ug/kg	3330		65.8	40-130		
Nitrobenzene	1770		130	ug/kg	3330		53.2	40-130		
2-Methylphenol	1980		130	ug/kg	3330		59.5	40-130		
2-Nitroaniline	1960		130	ug/kg	3330		58.8	40-130		
2-Nitrophenol	2110		330	ug/kg	3330		63.3	40-130		
3-Nitroaniline	2580		130	ug/kg	3330		77.3	40-130		
4,6-Dinitro-2-methylphenol	1440		330	ug/kg	3330		43.1	40-130		
4-Bromophenyl phenyl ether	2800		130	ug/kg	3330		84.1	40-130		
4-Chloro-3-methylphenol	2280		130	ug/kg	3330		68.3	40-130		
4-Chlorophenyl phenyl ether	2770		130	ug/kg	3330		83.1	40-130		
4-Nitroaniline	2620		130	ug/kg	3330		78.5	40-130		
4-Nitrophenol	2040		330	ug/kg	3330		61.3	40-130		
Acenaphthene	2540		130	ug/kg	3330		76.1	40-130		
Acenaphthylene	2420		130	ug/kg	3330		72.7	40-130		
Anthracene	2780		130	ug/kg	3330		83.4	40-130		
Benzo(a)anthracene	2790		130	ug/kg	3330		83.6	40-130		
Benzo(a)pyrene	2790		130	ug/kg	3330		83.8	40-130		
Benzo(b)fluoranthene	2770		130	ug/kg	3330		83.0	40-130		
Benzo(g,h,i)perylene	2650		130	ug/kg	3330		79.4	40-130		
Benzo(k)fluoranthene	2960		130	ug/kg	3330		88.8	40-130		
Biphenyl	551		40	ug/kg	833		66.1	40-130		
Bis(2-chloroethoxy)methane	2200		130	ug/kg	3330		66.0	40-130		
Bis(2-chloroethyl)ether	2040		130	ug/kg	3330		61.2	40-130		
Bis(2-chloroisopropyl)ether	2190		130	ug/kg	3330		65.6	40-130		

Semivolatile organic compounds (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B2G0096 - EPA 3546 (Continued)										
LCS (B2G0096-BS1)					Prepared: 07/05/22 Analyzed: 07/07/22					
Bis(2-ethylhexyl)phthalate	2550		400	ug/kg	3330		76.4	40-130		
Butyl benzyl phthalate	2620		130	ug/kg	3330		78.5	40-130		
Chrysene	2780		130	ug/kg	3330		83.4	40-130		
Di(n)octyl phthalate	2630		200	ug/kg	3330		78.9	40-130		
Dibenz(a,h)anthracene	2600		130	ug/kg	3330		78.0	40-130		
Dibenzofuran	2710		130	ug/kg	3330		81.3	40-130		
Diethyl phthalate	2580		130	ug/kg	3330		77.5	40-130		
Dimethyl phthalate	2620		330	ug/kg	3330		78.6	40-130		
Di-n-butylphthalate	2840		200	ug/kg	3330		85.2	40-130		
Fluoranthene	2920		130	ug/kg	3330		87.5	40-130		
Fluorene	2710		130	ug/kg	3330		81.3	40-130		
Hexachlorobenzene	2860		130	ug/kg	3330		85.9	40-130		
Hexachlorobutadiene	2210		130	ug/kg	3330		66.3	40-130		
Hexachlorocyclopentadiene	2040		330	ug/kg	3330		61.3	40-130		
Hexachloroethane	1750		130	ug/kg	3330		52.5	40-130		
Indeno(1,2,3-cd)pyrene	2520		130	ug/kg	3330		75.5	40-130		
Isophorone	2210		130	ug/kg	3330		66.2	40-130		
Naphthalene	2210		130	ug/kg	3330		66.3	40-130		
N-Nitrosodimethylamine	1480		130	ug/kg	3330		44.5	40-130		
N-Nitrosodi-n-propylamine	1900		130	ug/kg	3330		57.1	40-130		
N-Nitrosodiphenylamine	3490		130	ug/kg	3330		105	40-130		
Pentachlorophenol	1900		330	ug/kg	3330		57.0	40-130		
Phenanthrene	2870		130	ug/kg	3330		86.2	40-130		
Pyrene	3090		130	ug/kg	3330		92.7	40-130		
m&p-Cresol	2030		260	ug/kg	3330		60.8	40-130		
Surrogate: Nitrobenzene-d5			*1310*	ug/kg	*3330*		*39.2*	*30-126*		
Surrogate: p-Terphenyl-d14			*2330*	ug/kg	*3330*		*69.8*	*47-130*		
Surrogate: 2-Fluorobiphenyl			*1790*	ug/kg	*3330*		*53.7*	*34-130*		
Surrogate: Phenol-d6			*1740*	ug/kg	*3330*		*52.1*	*30-130*		
Surrogate: 2,4,6-Tribromophenol			*2440*	ug/kg	*3330*		*73.1*	*30-130*		
Surrogate: 2-Fluorophenol			*1690*	ug/kg	*3330*		*50.8*	*30-130*		

Semivolatile organic compounds (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B2G0096 - EPA 3546 (Continued)										
LCS Dup (B2G0096-BSD1)					Prepared: 07/05/22 Analyzed: 07/07/22					
1,2,4-Trichlorobenzene	2880		130	ug/kg	3330		86.5	40-130	27.5	30
1,2-Dichlorobenzene	2690		130	ug/kg	3330		80.7	40-130	27.6	30
1,3-Dichlorobenzene	2630		130	ug/kg	3330		78.9	40-130	27.7	30
1,4-Dichlorobenzene	2680		130	ug/kg	3330		80.4	40-130	27.8	30
Phenol	2650		130	ug/kg	3330		79.5	40-130	23.9	30
2,4,5-Trichlorophenol	2720		130	ug/kg	3330		81.7	40-130	7.62	30
2,4,6-Trichlorophenol	2770		130	ug/kg	3330		83.2	40-130	14.7	30
2,4-Dichlorophenol	2860		130	ug/kg	3330		85.7	40-130	23.8	30
2,4-Dimethylphenol	3170		330	ug/kg	3330		95.2	40-130	23.7	30
2,4-Dinitrotoluene	2980		130	ug/kg	3330		89.4	40-130	8.03	30
2,6-Dinitrotoluene	2980		130	ug/kg	3330		89.5	40-130	5.30	30
2-Chloronaphthalene	2870		130	ug/kg	3330		86.1	40-130	18.4	30
2-Chlorophenol	2780		130	ug/kg	3330		83.3	40-130	24.9	30
2-Methylnaphthalene	2730		130	ug/kg	3330		81.8	40-130	21.6	30
Nitrobenzene	2330		130	ug/kg	3330		69.9	40-130	27.2	30
2-Methylphenol	2600		130	ug/kg	3330		77.9	40-130	26.8	30
2-Nitroaniline	2160		130	ug/kg	3330		64.8	40-130	9.72	30
2-Nitrophenol	2680		330	ug/kg	3330		80.5	40-130	23.8	30
3-Nitroaniline	2830		130	ug/kg	3330		84.8	40-130	9.28	30
4,6-Dinitro-2-methylphenol	1290		330	ug/kg	3330		38.7	40-130	10.9	30
4-Bromophenyl phenyl ether	2990		130	ug/kg	3330		89.7	40-130	6.47	30
4-Chloro-3-methylphenol	2490		130	ug/kg	3330		74.8	40-130	9.06	30
4-Chlorophenyl phenyl ether	3020		130	ug/kg	3330		90.6	40-130	8.68	30
4-Nitroaniline	2830		130	ug/kg	3330		84.8	40-130	7.76	30
4-Nitrophenol	2180		330	ug/kg	3330		65.3	40-130	6.32	30
Acenaphthene	2910		130	ug/kg	3330		87.2	40-130	13.5	30
Acenaphthylene	2750		130	ug/kg	3330		82.4	40-130	12.5	30
Anthracene	2850		130	ug/kg	3330		85.4	40-130	2.37	30
Benzo(a)anthracene	2880		130	ug/kg	3330		86.5	40-130	3.48	30
Benzo(a)pyrene	2970		130	ug/kg	3330		89.1	40-130	6.22	30
Benzo(b)fluoranthene	2990		130	ug/kg	3330		89.7	40-130	7.74	30
Benzo(g,h,i)perylene	2640		130	ug/kg	3330		79.2	40-130	0.353	30
Benzo(k)fluoranthene	3230		130	ug/kg	3330		96.9	40-130	8.66	30
Biphenyl	659		40	ug/kg	833		79.1	40-130	18.0	30
Bis(2-chloroethoxy)methane	2810		130	ug/kg	3330		84.3	40-130	24.3	30
Bis(2-chloroethyl)ether	2720		130	ug/kg	3330		81.7	40-130	28.7	30
Bis(2-chloroisopropyl)ether	2920		130	ug/kg	3330		87.5	40-130	28.6	30
Bis(2-ethylhexyl)phthalate	2780		400	ug/kg	3330		83.5	40-130	8.89	30
Butyl benzyl phthalate	2780		130	ug/kg	3330		83.3	40-130	5.98	30
Chrysene	2950		130	ug/kg	3330		88.6	40-130	6.05	30
Di(n)octyl phthalate	2930		200	ug/kg	3330		87.8	40-130	10.8	30
Dibenz(a,h)anthracene	2680		130	ug/kg	3330		80.4	40-130	3.06	30
Dibenzofuran	3020		130	ug/kg	3330		90.7	40-130	10.9	30
Diethyl phthalate	2720		130	ug/kg	3330		81.6	40-130	5.08	30
Dimethyl phthalate	2830		330	ug/kg	3330		84.8	40-130	7.57	30
Di-n-butylphthalate	2890		200	ug/kg	3330		86.7	40-130	1.70	30
Fluoranthene	2970		130	ug/kg	3330		89.1	40-130	1.83	30
Fluorene	3000		130	ug/kg	3330		90.0	40-130	10.1	30
Hexachlorobenzene	3040		130	ug/kg	3330		91.3	40-130	6.09	30
Hexachlorobutadiene	2970		130	ug/kg	3330		89.2	40-130	29.5	30
Hexachlorocyclopentadiene	2680		330	ug/kg	3330		80.5	40-130	27.1	30
Hexachloroethane	2380		130	ug/kg	3330		71.3	40-130	30.4	30
Indeno(1,2,3-cd)pyrene	2560		130	ug/kg	3330		76.7	40-130	1.63	30
Isophorone	2640		130	ug/kg	3330		79.3	40-130	18.1	30
Naphthalene	2900		130	ug/kg	3330		86.9	40-130	26.9	30
N-Nitrosodimethylamine	1950		130	ug/kg	3330		58.6	40-130	27.3	30
N-Nitrosodi-n-propylamine	2330		130	ug/kg	3330		69.9	40-130	[illegible]	[illegible]

Quality Control
(Continued)

Semivolatile organic compounds (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B2G0096 - EPA 3546 (Continued)										
LCS Dup (B2G0096-BSD1)					Prepared: 07/05/22 Analyzed: 07/07/22					
N-Nitrosodiphenylamine	3690		130	ug/kg	3330		111	40-130	5.66	30
Pentachlorophenol	1760		330	ug/kg	3330		52.9	40-130	7.46	30
Phenanthrene	2950		130	ug/kg	3330		88.4	40-130	2.50	30
Pyrene	3130		130	ug/kg	3330		93.9	40-130	1.33	30
m&p-Cresol	2610		260	ug/kg	3330		78.4	40-130	25.3	30
Surrogate: Nitrobenzene-d5			*1940*	ug/kg	*3330*		*58.3*	*30-126*		
Surrogate: p-Terphenyl-d14			*2790*	ug/kg	*3330*		*83.8*	*47-130*		
Surrogate: 2-Fluorobiphenyl			*2540*	ug/kg	*3330*		*76.1*	*34-130*		
Surrogate: Phenol-d6			*2570*	ug/kg	*3330*		*77.0*	*30-130*		
Surrogate: 2,4,6-Tribromophenol			*2970*	ug/kg	*3330*		*89.2*	*30-130*		
Surrogate: 2-Fluorophenol			*2520*	ug/kg	*3330*		*75.7*	*30-130*		

Quality Control
(Continued)

Polychlorinated Biphenyls (PCBs)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B2G0060 - EPA 3546										
Blank (B2G0060-BLK1)					Prepared: 07/05/22 Analyzed: 07/06/22					
Aroclor-1016	ND		66	ug/kg						
Aroclor-1221	ND		66	ug/kg						
Aroclor-1232	ND		66	ug/kg						
Aroclor-1242	ND		66	ug/kg						
Aroclor-1248	ND		66	ug/kg						
Aroclor-1254	ND		66	ug/kg						
Aroclor-1260	ND		66	ug/kg						
Aroclor-1262	ND		66	ug/kg						
Aroclor-1268	ND		66	ug/kg						
PCBs (Total)	ND		66	ug/kg						
Surrogate: 2,4,5,6-Tetrachloro-m-xylene (TCMX)			*12.3*	ug/kg	*13.3*		*92.0*	*36.2-130*		
Surrogate: Decachlorobiphenyl (DCBP)			*13.3*	ug/kg	*13.3*		*99.7*	*43.3-130*		
LCS (B2G0060-BS1)					Prepared: 07/05/22 Analyzed: 07/06/22					
Aroclor-1016	168		66	ug/kg	167		101	58.2-125		
Aroclor-1260	205		66	ug/kg	167		123	65.5-130		
Surrogate: 2,4,5,6-Tetrachloro-m-xylene (TCMX)			*14.1*	ug/kg	*13.3*		*106*	*36.2-130*		
Surrogate: Decachlorobiphenyl (DCBP)			*15.5*	ug/kg	*13.3*		*117*	*43.3-130*		
LCS Dup (B2G0060-BSD1)					Prepared: 07/05/22 Analyzed: 07/06/22					
Aroclor-1016	167		66	ug/kg	167		100	58.2-125	0.819	20
Aroclor-1260	192		66	ug/kg	167		115	65.5-130	6.80	20
Surrogate: 2,4,5,6-Tetrachloro-m-xylene (TCMX)			*13.3*	ug/kg	*13.3*		*99.4*	*36.2-130*		
Surrogate: Decachlorobiphenyl (DCBP)			*14.2*	ug/kg	*13.3*		*107*	*43.3-130*		

Quality Control
(Continued)

Total Petroleum Hydrocarbons

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B2G0117 - EPA 3546										
Blank (B2G0117-BLK1)					Prepared: 07/06/22 Analyzed: 07/07/22					
Total Petroleum Hydrocarbons	ND		27	mg/kg						
Surrogate: Chlorooctadecane			*7.71*	mg/kg	*8.33*		*92.5*	*50-130*		
LCS (B2G0117-BS1)					Prepared: 07/06/22 Analyzed: 07/07/22					
Total Petroleum Hydrocarbons	477		27	mg/kg	667		71.5	44.7-125		
Surrogate: Chlorooctadecane			*7.19*	mg/kg	*8.33*		*86.2*	*50-130*		
LCS Dup (B2G0117-BSD1)					Prepared: 07/06/22 Analyzed: 07/07/22					
Total Petroleum Hydrocarbons	508		27	mg/kg	667		76.2	44.7-125	6.26	200
Surrogate: Chlorooctadecane			*7.02*	mg/kg	*8.33*		*84.2*	*50-130*		

Notes and Definitions

Item	Definition
Wet	Sample results reported on a wet weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.

New England Testing Laboratory
59 Greenhill Street
West Warwick, RI 02893
1-888-863-8522

2 G 0 1005 #

Chain of Custody Record

Project No.	Project Name/Location: Columbia Rd.									Tests**								
Client: Hoffman Engineering				Matrix														
Report To: R. Hoffman																		
Invoice To: R. Hoffman																		
Date	Time	Comp	Grab	Sample I.D.	Aqueous	Soil	Other	No. of Containers	Preservative	* RCRA 8 Metals	+ 8100 TPH	x 8260 VOCs	x 8270 Semi-VOCs	x PCB	x Flashpoint	x pH	x % solids	
7/1/22	NPR	X		3081, 3091, 3093, 3094		x		4	NP, M	x	x	x	x	x	x	x	x	
				4 glass layer														
~~Delete~~																		

Sampled By:	Date/Time	Received By:	Date/Time	Laboratory Remarks:	Special Instructions:
	7/1/22 03:30		7/1/22 0:832		* Run TCLP metals if over 20 x rule *
Relinquished By:	**Date/Time**	**Received By:**	**Date/Time**		
	7/1/22 956		7/1/22 9:58	Temp. Received: 21	

**Netlab Subcontracts the following tests: Radiologicals, Radon, TOC, Asbestos, UCMRs, Perchlorate, Bromate, Bromide, Sieve, Salmonella, Carbamates

Turnaround Time (Business Days): 5 Days