



April 29, 2020

Jon Adams-Kollitz
Burlington Parks, Recreation & Waterfront
645 Pine Street, Suite B
Burlington, Vermont 05401

Re: Minor Corrective Action Plan Amendment and Summary of the 2020 Phase 3A South & Phase 3B Soil Pre-Characterization Investigation
Burlington Greenway Rehabilitation – Phase 3 (SMS#: 20194867)
Burlington, Vermont
VHB Project No. 58369.00

Dear Jon:

Vanasse Hangen Brustlin, Inc. ("VHB"), is pleased to present Burlington Parks, Recreation & Waterfront ("BPRW") with the following Minor Corrective Action Plan ("CAP") Amendment and Summary of the 2020 Phase 3A South & Phase 3B Soil Investigation for the Burlington Greenway Rehabilitation – Phase 3 (SMS#: 20194867) Burlington, Vermont (the "Site"). This letter describes a minor amendment to VHB's *Corrective Action Plan, Burlington Greenway Rehabilitation – Phase 3*, dated October 2, 2019 (the "CAP") and approved by the Vermont Department of Environmental Conservation ("DEC"), as well as describes the Phase 3A South and Phase 3B soil pre-characterization investigation conducted in March 2020 by VHB in accordance with The Johnson Company's (currently VHB) *Scope of Work for Soil Pre-Characterization and Environmental Consulting Services, Burlington Greenway Phase 3*, dated February 19, 2019 (the "Scope of Work"). The Phase 3A South portion of the Project extends south from the revetment work adjacent to the Pine Street Barge Canal to Lakeside Avenue and the Phase 3B portion of the Project extends south from Proctor Place through Oakledge Park to Austin Drive. Figures are provided as **Attachment A**, soil boring logs are provided as **Attachment B**, summary tables of soil investigation laboratory analytical data are provided as **Attachment C**, laboratory analytical reports are provided as **Attachment D**, and public notice information for Phase 3A South and Phase 3B is provided in **Attachment E**.

1.0 INTRODUCTION

The Project area is an approximately 1.5-mile long existing bike path corridor in Burlington, Vermont that extends north from Queen City Park Road to Perkins Pier (the "Project Area"; see **Attachment A, Figure 1**). As outlined in the CAP, the redevelopment plan for the Project Area consists of the rehabilitation of the southern portion of the Burlington Greenway, which includes the realignment, widening, and reconstruction of select sections of the existing bike path ("the Project"). In March 2019 VHB conducted a soil pre-characterization investigation of the majority of the "Phase 3A" portion of the Project Area that focused on sections of the path that were anticipated to be disturbed during the initial phase of rehabilitation.

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The Phase 3A South and Phase 3B portion of the Project will involve the excavation of soil from under and adjacent to the existing path in order to install new sub-base for the proposed bike path and “pause places” in addition to the installation of a small bridge/culvert. It is VHB’s understanding that the majority of the excess soil generated will be transported off-site for appropriate reuse or disposal due to space limitations within the Project Area. The purpose of this soil pre-characterization was to characterize previously uncharacterized soil that will be disturbed within the Phase 3A South portion that extends north from Lakeside Avenue to the south end of the revetment construction near the Pine Street Barge Canal (Station 300+00 to Station 400+00; Segment 3) and the Phase 3B portion of the investigation occurred from Austin Drive through Oakledge Park to Proctor Place (Station 100+00 to Station 200+00; Segment 1). The purpose of the Minor CAP Amendment is to outline planned corrective action activities associated with the reuse and/or disposal of the newly characterized Project Area soil associated with Phase 3A South and Phase 3B of the Project.

Previous phases of the Burlington Greenway Rehabilitation (Phase 1B, Phase 2, and Phase 3A) also had soil pre-characterization performed. A similar soil pre-characterization methodology utilized during prior phases of the Burlington Greenway Rehabilitation project was described in the Scope of Work for pre-characterization of Phase 3 soils which was employed during this investigation and was reviewed and approved by DEC and Casella (the anticipated receiving facility for impacted Project Area soil). Due to the identification of soil impacts within portions of the Project Area, the DEC Sites Management Section (“SMS”) indicated that those impacted portions of the Phase 3 Project Area would be designated SMS# 20194867 (the “Site”). Specifically, the Site will include portions of the Project Area containing soils that are impacted above DEC’s residential Vermont Soil Standards (“VSSs”) and urban background values and are therefore regulated by the DEC. As described in the Scope of Work, this soil sampling methodology used an approximate soil boring interval of one per 100-feet of linear path to provide representative samples of Site soil that is likely to be disturbed during redevelopment.

2.0 SOIL INVESTIGATION PREPARATORY ACTIVITIES

Prior to the start of the March 2020 soil investigation activities at the Site, VHB conducted a pre-mark for DigSafe and obtained a DigSafe ticket as required by Vermont law.

3.0 SOIL INVESTIGATION SAMPLING METHODOLOGY

On March 25, 2020 and March 26, 2020, Cascade Technical Services (“CTS”), with guidance from VHB, advanced 53 soil borings (SB-23 through SB-75) to termination depths between 1 foot below ground surface (“fbgs”) and 3 fbgs depending on the anticipated excavation depth at each location. One soil boring, SB-51, was advanced to a termination depth of 17 fbgs to collect a deeper soil sample near 8 fbgs to characterize soil that will be excavated to install a small bridge or culvert and to collect geotechnical data from depths greater than 8 fbgs to evaluate the load bearing capacity of the native material at this location.

Soil borings were advanced using a Geoprobe direct-push drill rig equipped with a 2-inch outside diameter split spoon sampler and soil samples were collected in a maximum of 2 foot intervals. The split spoon



sampler was decontaminated between soil borings using a stiff bristle brush to remove excess soil followed by an Alconox/water scrub and a rinse with potable water.

During advancement of soil boring SB-51 the Geoprobe was equipped with a DH-Series Automatic Drop Hammer that involved the repeated 30-inch free-fall of a 140-pound hammer in order to collect Standard Penetration test ("SPT") blow counts. The soil boring was advanced with hollow-stem augers at this location.

A VHB field geologist observed soil boring advancement, continuously screened the recovered soil cores for volatile organic compounds ("VOCs") with a field calibrated photo-ionization detector ("PID") and evaluated the soil cores for visual and olfactory evidence of contamination (i.e.: sheen, staining, odors, etc.). Soil characteristics, field observations, and PID screening results were recorded on soil boring logs. In accordance with the approved Scope of Work, composite soil samples were collected by homogenizing equal amounts of soil collected from either two, three, or four consecutive borings, resulting in composite samples representative of a 200-foot, 300-foot, or 400-foot linear section of Site soil, respectively.

Immediately following PID screening, samples were collected from each of the soil boring locations to represent the material collected from ground surface to the termination depth of the soil boring with the exception of soil boring SB-51, where a total of two soil samples were collected from different depths (0-1 fbgs and 5-7 fbgs). Sample containers for each sub-sample were filled prior to compositing. During composite sample collection, approximately equivalent volumes of material from each of the subsample borings (with the exception of sample material for volatile analyses) were placed in a dedicated zip-lock bag, homogenized, and placed in the appropriate sample jars for laboratory analysis. Samples for VOC and total petroleum hydrocarbon ("TPH") – gasoline range organics ("GRO") analyses were composited by placing approximately equal volumes of soil from each sub-sample location into a methanol preserved vial, as opposed to introducing it to a zip-lock bag where volatiles could be lost. After sample collection, excess material was returned to the soil borings from the approximate depth from which it originated and driller's sand was used to fill the remainder of the borehole to ground surface.

A total of 14 composite samples, 1 discrete sample, and 53 sub-samples were transported to Eastern Analytical Inc. in an ice filled cooler under chain of custody protocol. All sub-samples were placed on-hold and the composite samples were immediately analyzed for the full waste characterization suite that is required by Casella-owned landfills, which includes: VOCs by EPA method 8260C, semi-VOCs ("SVOCs") by EPA method 8270D, polychlorinated biphenyls ("PCBs") via EPA method 8082 with Soxhlet extraction, Resource Conservation Recovery Act ("RCRA") 8 metals via EPA method 6020, TPH-GRO and TPH-diesel range organics ("DRO"), pesticides, herbicides, reactivity, ignitability, and corrosivity analysis. If any analyte reported in a composite sample exceeded their applicable VSS or urban background concentration, the sub-samples that comprised the composite sample were analyzed in order to identify the more impacted sub-sample(s). Sample SB-51 (5-7) was also analyzed along with the composite samples for the full waste characterization suite that is required by Casella-owned landfills. Based on total concentrations of the analytes and waste disposal facility guidelines, Toxicity Characteristic Leaching Procedure ("TCLP") analysis was not conducted.



Given the heterogeneity of soil and the focus objective of this work, quality control ("QC") samples were not collected (i.e.: duplicate samples, equipment blanks) with the exception of trip blanks which accompanied the soil samples to the laboratory to be analyzed for VOCs and TPH-GRO. Following sample collection from the soil cores, the excess soil boring material was returned to the borehole and drillers sand was used to fill the remainder of the borehole to ground surface. The surface completion at locations of soil borings that were advanced through the existing bike path were repaired with cold-patch asphalt.

4.0 SOIL INVESTIGATION SAMPLING RESULTS

Soil cores recovered from the Project Area were largely composed of brown medium to fine grained sand with varying amounts of gravel and silt. Trace anthropogenic materials such as asphalt, brick, and coal fragments were observed in a limited number of borings, and a geotextile fabric was observed at 0.5-fbgs in two borings (SB-50 and SB-51) between the overlying gravel sub-base for the existing bike path and the underlying fill and/or native material. The majority of PID screening results for all soil borings were consistent with ambient background levels and ranged from 0.0 to 0.2 parts per million by volume ("ppmv"), with the exception of SB-39 and SB-40 where extracted soil core were associated with PID screening results of 8.0 ppmv and 11.7 ppmv respectively, although no odors resembling petroleum or other VOC contaminants were noted. However, an odor resembling decaying organic matter was noted and the soil core appeared to be organic-rich. Soil boring logs are provided in **Attachment D**.

Laboratory analytical results for the 14 composite samples, sample SB-51 (5-7), and 4 sub-samples that required analysis after reviewing the composite sample analytical results are summarized in the data tables provided in **Attachment B** and are described below. Laboratory analytical reports are provided in **Attachment C**.

Results of the VOC and herbicide analyses reported no detectable concentrations of the analyzed compounds above the laboratory reporting limits in any of the soil samples.

Results of the PCB, RCRA 8 Metals, pesticide, TPH-GRO, and TPH-DRO analysis for all of the composite samples and sample SB-51 (5-7) reported either no detectable concentrations, or reported detected concentrations of the analyzed compounds that were below their respective residential VSS.

Results of the SVOC analysis of the 14 composite samples and sample SB-51 (5-7) reported no concentrations of the non-PAH compounds above residential VSSs.

Results of the SVOC analysis for 7 of the 14 composite samples reported PAH concentrations (expressed as benzo(a)pyrene Toxic Equivalency ("BaP-TEQ")) in excess of the residential VSS (0.07 mg/kg), but less than the Urban Background Soil Concentration, while the BaP-TEQ concentrations reported for 6 of the 14 composite samples and sample SB-51 (5-7) were below the residential VSS.

Only 1 of the 14 composite samples (Comp-35,36,37,38 (0-1)) was associated with a BaP-TEQ concentration (0.66 mg/kg) exceeding the DEC Urban Background Soil Concentration of 0.58 mg/kg. Following the methodology outlined in Section 3.0, the sub-samples were analyzed for PAHs to identify the more impacted sub-sample(s). Results of the PAH analysis of the four sub-samples that comprised Comp-



35,36,37,38 (0-1) reported BaP-TEQ concentrations in excess of the Urban Background Soil Concentration in sub-samples SB-37 (0-1) and SB-38 (0-1) and BaP-TEQ concentrations in sub-samples SB-35 (0-1) and SB-36 (0-1) at concentrations below the residential VSS.

Based on the potential off-site disposal of Site soil, the composite samples and sample SB-51 (5-7) were also analyzed for additional waste characterization parameters required by disposal facilities (i.e.: reactivity, ignitability, and corrosivity), should the material be impacted. These results are also summarized in **Attachment B**.

5.0 PHASE 3A SOUTH AND PHASE 3B SOIL PRE-CHARACTERIZATION CONCLUSIONS

Based on the field observations and analytical results of this soil pre-characterization investigation that identified only PAH impacts in exceedance of applicable standards, VHB concludes that soil excavated during Phase 3A South and Phase 3B of the Burlington Greenway Rehabilitation can be classified within the three soil management categories outlined in Section 4.2 of the CAP (**RED**, **YELLOW**, and **GREEN**), and summarized as follows:

- Soil with reported PAH concentrations (expressed as BaP-TEQ) below the residential VSS of 0.07 mg/kg is classified as **GREEN**. These sections are shown in green on **Figure 2A** and **Figure 2B** (see **Attachment A**) and are listed below:
 - o Station 100+00 to Station 108+75;
 - o Station 123+75 to Station 127+75;
 - o Station 131+75 to Station 136+50;
 - o Station 302+00 to Station 304+00;
 - o Station 308+00 to Station 312+00; and,
 - o Deeper soil associated with bridge/culvert construction between Station 124+00 and Station 125+00.
- Soil with reported PAH concentrations (expressed as BaP-TEQ) greater than the residential VSS of 0.07 mg/kg, but less than the DEC Urban Background Soil Concentration of 0.58 mg/kg is classified as **YELLOW**. These sections are shown in yellow on **Figure 2A** and **Figure 2B** (see **Attachment A**) and are listed below:
 - o Station 108+75 to Station 123+75 including the pause place proposed at the west end of Flynn Avenue;
 - o Station 127+75 to Station 131+75;
 - o Station 304+00 to Station 308+00; and,
 - o Station 312+00 to Station 400+00.
- Soil with reported PAH concentrations (expressed as BaP-TEQ) greater than or equal to the DEC Urban Background Soil Concentration of 0.58 mg/kg is classified as **RED**. These sections are shown in red on **Figure 2A** and **Figure 2B** (see **Attachment A**) and are listed below:
 - o Station 300+00 to Station 302+00.



6.0 MINOR AMENDMENT TO CAP

It is anticipated that the planned construction activities in support of the of the Project will require the removal, re-use and/or off-site disposal of soil impacted with PAHs. As outlined in the approved CAP, the purpose of this corrective action is to provide for the appropriate management of impacted soil during construction to avoid migration from the Site and exposure to potential sensitive receptors during or after construction.

Data evaluated as part of the Phase 3A South and Phase 3B soil pre-characterization suggests that the soil sampled during the March 2020 investigation can be managed under the three soil management categories presented in the approved CAP (**RED**, **YELLOW**, and **GREEN**), which are summarized below.

- **GREEN** soil is not regulated by the DEC and can be reused in an unencumbered manner anywhere in the state of Vermont, including within the Project Area. Therefore, this soil does not require management under a CAP.
- **YELLOW** soil is not regulated by the DEC as long as it remains in an Urban Area as defined by the Agency of Natural Resources ("ANR") Natural Resources Atlas. Therefore, this soil does not require management under a CAP. According to the ANR Atlas, the Project Area is located within an Urban Area and thus the on-site reuse of this material is permitted.
- **RED** soil is regulated by the DEC and thus requires management under a CAP. This material may remain onsite if buried under an engineered isolation barrier or must be disposed of at a certified landfill if taken offsite. The isolation barrier will be designed per the various surface completions and associated minimum thicknesses described in Section 3 of the approved CAP. Annual inspections of the engineering isolation barrier will be conducted as outlined in Section 6 of the CAP and any remaining **RED** soil remaining onsite under an isolation barrier after construction is complete will be documented in a notice to the land records per Section 7 the CAP.

A Soil Management Matrix is provided as Table 4 in Section 4 of the CAP. The matrix summarizes the regulated status, dust monitoring protocols, inspection protocols, management, reuse options/restrictions, and disposal options for each soil management category, which are further outlined in Section 4 of the approved CAP. **RED** soil identified during the March 2020 Phase 3A South and Phase 3B soil pre-characterization investigation and summarized in Section 5 of this Minor CAP Amendment will be managed via the Project Waste Management Plan for **RED** soil provided in Section 4 of the CAP.

Owners of the properties abutting the **RED** soil identified north of Lakeside Avenue between Station 300+00 to Station 302+00 will also receive an Abutter Notification letter as discussed in Section 1.4.2 of the CAP. A draft Abutter Notification Letter, an abutter list containing the property owner information, and a figure showing the abutting properties that will receive the Abutter Notification Letter are provided in **Attachment E**.



7.0 REPORTING

As described in Section 4.2.2 of the approved CAP, when the Qualified Environmental Professional ("QEP") is on-site monitoring the excavation of impacted soils they will prepare and submit a daily report to the DEC within 48-hours that describes Project activities completed that day. Upon completion of the Project, the QEP will prepare a corrective action construction completion report ("CACCR") describing the implementation of the CAP and this Minor CAP Amendment. The CACCR will include applicable disposal documentation, daily reports, truck inspection logs, an institutional control plan, and figures showing final surface completions, isolation barrier locations and descriptions, and areas where impacted soils may have been reused at the Site.

8.0 LIMITATIONS

This information is intended for the use of BPRW for the specific purpose of outlining corrective action activities for Phase 3A South and Phase 3B of the Burlington Greenway Redevelopment Project located in Burlington, Vermont. No other uses, expressed or implied, are warranted. The design of this Minor CAP Amendment was based on sound scientific techniques and experience with similar corrective actions. However, the recommended activities in this Minor CAP Amendment are based on limited information. Should additional information become available pertaining to environmental concerns, VHB reserves the right to re-evaluate recommendations made herein.

The recommendations in this report are based on information provided to VHB from the following sources: BPRW; DEC; CTS; and Eastern Analytical, Inc. ("EAI"). Independent verification of the work performed by others was not always possible; therefore, its accuracy and reliability cannot be warranted.

This report was prepared pursuant to Agreements between, BPRW, DEC, and VHB. All uses of this report are subject to the conditions and restrictions contained in the Agreements. The corrective action activities described in this report are based solely on the Scope of Services provided pursuant to the Agreement and subsequent amendments. VHB shall not be liable for the existence of any condition, the discovery of which would have required the performance of services not authorized under the Agreement. This work has been undertaken in accordance with generally accepted consulting practices. No other warranty, expressed or implied, is made.

This report reflects Site conditions observed and described by records available to VHB as of the date of report preparation. The passage of time may result in significant changes in Site conditions, technology, or economic conditions, which could alter the findings and/or recommendations of the report. Accordingly, BPRW, DEC and any other party to whom the report is provided recognize and agree that VHB shall bear no liability for deviations from observed conditions or available records after the time of report preparation.

9.0 CERTIFICATION

This Minor CAP Amendment was prepared under my direction, is an amendment to the October 2019 CAP approved by the DEC, and outlines corrective action activities proposed for the reuse and/or disposal of



Site soil that is anticipated to be excavated during Phase 3A South and Phase 3B of the Burlington Greenway Rehabilitation, in Burlington, Vermont.

I certify that I have reviewed the remedial system design incorporated in this Minor CAP Amendment. I certify under penalty of perjury that I am an environmental professional and that all content contained within this deliverable is to the best of my knowledge true and correct.

Thank you for the opportunity to provide BPRW with these services. Should you have any questions, please do not hesitate to contact us.

Sincerely,

Vanasse Hangen Brustlin, Inc.

A handwritten signature in black ink, appearing to read "K. Muller", with a long, sweeping horizontal line extending to the right.

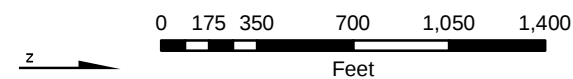
Kurt Muller, P.E. #74407
Vermont Director of Site Investigation & Remediation





ATTACHMENT A

FIGURES



Sources: Waterbodies, streams, contours, parcels, town boundaries, and roads, all provided by Vermont Center for Geographic Information (VCGI). Imagery provided by VCGI (2014).

Legend

Proposed Burlington Greenway Bike Path

Stations

- Segment Start/End Station
- Intermediate Station

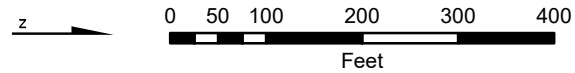


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Drawn by: SGH Date: 6/10/2019
Reviewed by: JKM Date: 6/10/2019
Approved by: JKM Date: 6/10/2019

Scale: 1 in = 700 ft Project: 58369.00

**FIGURE 1 - PROJECT OVERVIEW
BURLINGTON GREENWAY
REHABILITATION PROJECT - PHASE 3
BURLINGTON, VERMONT**



All Soil Management Sections represent material from 0 to 1 foot below ground surface (fbgs) unless otherwise noted.
*Section Characterized to 1.5 fbgs
**Section Characterized to 3 fbgs
***Section Characterized to 9 fbgs
Sources: Waterbodies, streams, contours, parcels, town boundaries, and roads, all provided by Vermont Center for Geographic Information (VCGI). Imagery provided by VCGI (2014).

Legend

2020 VHB Soil Boring

Stations

Segment Start/End Station
 Intermediate Station

Soil Management Section Concentration (mg/kg)
 Class I Soil (PAHs < 0.07)
 Class II Soil (0.07 ≤ PAHs < 0.58)
 Class III or Class IV Soil Pending Casella Approval (PAHs ≥ 0.58)
 Uncharacterized

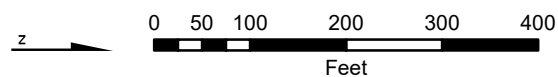
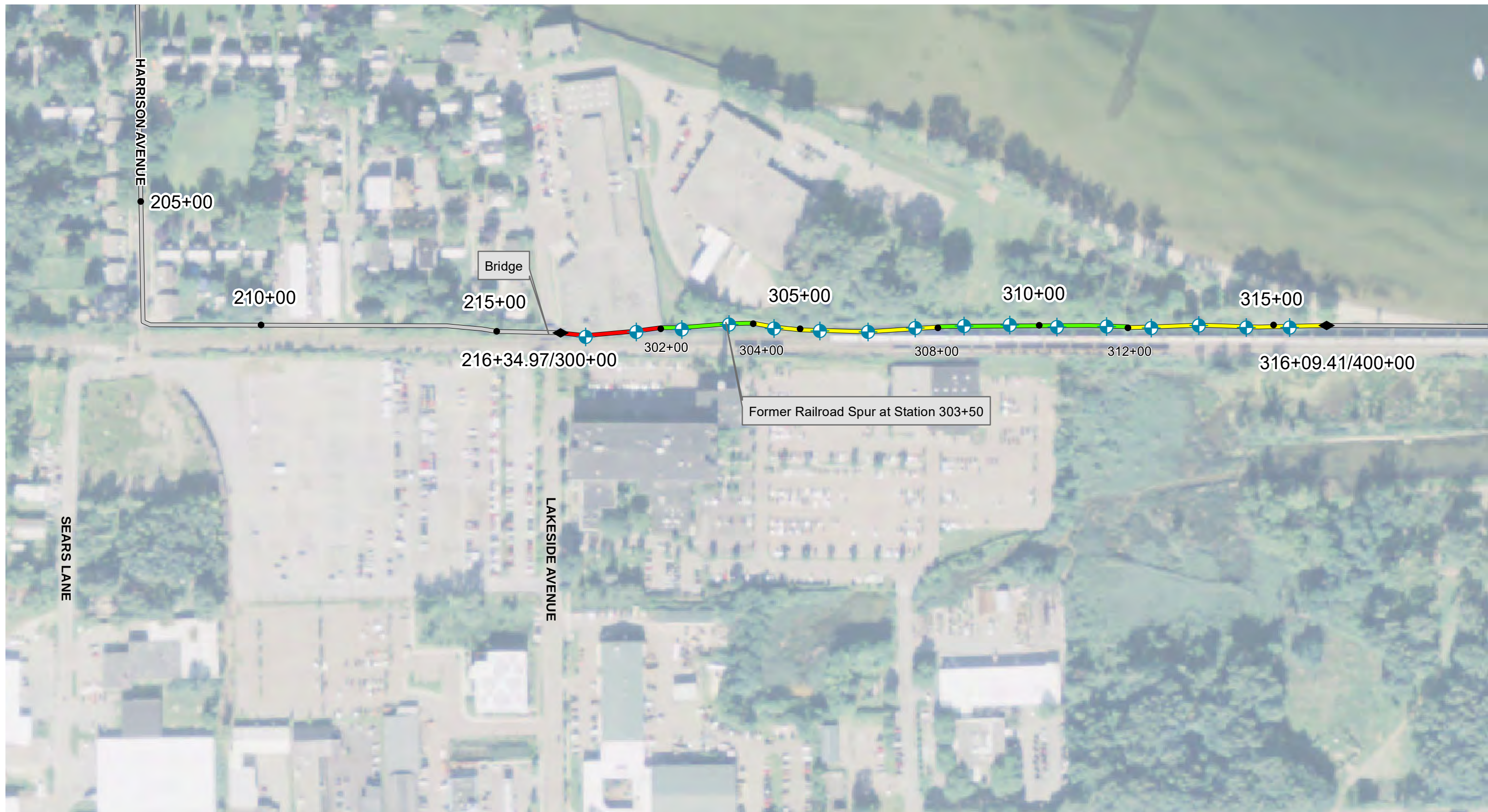


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Drawn by: DEB Date: 04/09/2020
Reviewed by: SGH Date: 04/15/2020
Approved by: JKM Date: 04/15/2020

Scale: 1 in = 200 ft Project: 58369.00

**FIGURE 2A - CHARACTERIZED SECTIONS FOR
SOIL MANAGEMENT (SEGMENT 1)
BURLINGTON GREENWAY
REHABILITATION PROJECT - PHASE 3B
BURLINGTON, VERMONT**



All Soil Management Sections represent material from 0 to 1 foot below ground surface (fbgs).
Sources: Waterbodies, streams, contours, parcels, town boundaries, and roads, all provided by Vermont Center for Geographic Information (VCGI). Imagery provided by VCGI (2014).

Legend

2020 VHB Soil Boring

Stations

Segment Start/End Station

Intermediate Station

Soil Management Section Concentration (mg/kg)

Class I Soil (PAHs < 0.07)

Class II Soil (0.07 ≤ PAHs < 0.58)

Class III or Class IV Soil Pending Casella Approval (PAHs ≥ 0.58)

Uncharacterized



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Drawn by: DEB Date: 04/06/2020
Reviewed by: SGH Date: 04/15/2020
Approved by: JKM Date: 04/15/2020

Scale: 1 in = 200 ft Project: 58369.00

**FIGURE 2B - CHARACTERIZED SECTIONS FOR
SOIL MANAGEMENT (SEGMENT 3)
BURLINGTON GREENWAY
REHABILITATION PROJECT - PHASE 3B
BURLINGTON, VERMONT**

Minor CAP Amendment: Burlington Greenway Rehabilitation - Phase 3
April 24, 2020



ATTACHMENT B SOIL BORING LOGS



Boring ID/Well ID:	SB-23				
Boring Depth	1.0	Depth to Water (ft BGS)	—	VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]

Site Name: Burlington Greenway Phase 3B
 Site Location: Burlington, Vermont
 Installation Date: 03/25/2020



Boring ID/Well ID:		SB-24			
Boring Depth	1'	Depth to Water (ft BGS)	—	VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

Depth (ft bgs)	Sample Depth (ft bgs)	Recovery (ft)	Sample Description and Notes (Moisture, Color, Texture, Redox, Inclusions, Staining, Olfactory/ Visual Evidence of Contamination)	PID (PPM)	Stratum Change
	0-1	0.8	Brown, dense, moist poorly-graded med. sand, to gravel, to silt. (SP)	0.0	
1.0			Bottom of Hole		

[illegible]



Boring ID/Well ID:	SB-26				
Boring Depth	1.01	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]

Site Name: Burlington Greenway Phase 3B
Site Location: Burlington, Vermont
Installation Date: 03/28/2020



Boring ID/Well ID:	SB-27				
Boring Depth	1.0	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]



Boring ID/Well ID:	SB-28				
Boring Depth	10'	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]

Site Name: Burlington Greenway Phase 3B
 Site Location: Burlington, Vermont
 Installation Date: 03/25/2020



Boring ID/Well ID:	SB-29				
Boring Depth	1.0'	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

Depth (ft bgs)	Sample Depth (ft bgs)	Recovery (ft)	Sample Description and Notes (Moisture, Color, Texture, Redox, Inclusions, Staining, Olfactory/ Visual Evidence of Contamination)	PID (PPM)	Stratum Change
	0-1	0.9	Brown, dense, moist, Pearly-grained med. sand, + gravel, (SP)	0.1	
1.0			Bottom of Hole		



Boring ID/Well ID:	SB-30				
Boring Depth	1.0'	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]

Site Name: Burlington Greenway Phase 3B
Site Location: Burlington, Vermont
Installation Date: 03/25/2020



Boring ID/Well ID:	SB-31				
Boring Depth	1.0'	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]



Boring ID/Well ID:	SB-32				
Boring Depth	1.0'	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]



Boring ID/Well ID:	SB-33				
Boring Depth	1.0'	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]



Boring ID/Well ID:	SB-34				
Boring Depth	1.0	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]

Site Name: Burlington Greenway Phase 3B
Site Location: Burlington, Vermont
Installation Date: 03/28/2020



Boring ID/Well ID:	SB-35				
Boring Depth	1.0	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]

Site Name: Burlington Greenway Phase 3B
 Site Location: Burlington, Vermont
 Installation Date: 03/25/2020



Boring ID/Well ID:		SB-36			
Boring Depth	1.0	Depth to Water (ft BGS)	—	VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

Depth (ft bgs)	Sample Depth (ft bgs)	Recovery (ft)	Sample Description and Notes (Moisture, Color, Texture, Redox, Inclusions, Staining, Olfactory/ Visual Evidence of Contamination)	PID (PPM)	Stratum Change
	0-1	1.0	Brown, compact, moist, well-graded, sand with gravel. (SW)	0.1	
1.0			Bottom of Hole		



Boring ID/Well ID:	JB-- 32				
Boring Depth	1.0'	Depth to Water (ft BGS)	—	VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]



Boring ID/Well ID:	SB-38				
Boring Depth	1.0	Depth to Water (ft BGS)	—	VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EA)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]

Site Name: Burlington Greenway Phase 3B
 Site Location: Burlington, Vermont
 Installation Date: 03/26/2020



Boring ID/Well ID:	SB-39 (0-3)				
Boring Depth	0.0-3.0	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

Depth (ft bgs)	Sample Depth (ft bgs)	Recovery (ft)	Sample Description and Notes (Moisture, Color, Texture, Redox, Inclusions, Staining, Olfactory/ Visual Evidence of Contamination)	PID (PPM)	Stratum Change
0.0	7.0 SGH 3/26/20		see SB-40 (0-3)	8.0	
	0-3				
3.0			Bottom of Hole		

Site Name: Burlington Greenway Phase 3B
 Site Location: Burlington, Vermont
 Installation Date: 03/26/2020



Boring ID/Well ID:	5B-40 (0-3)				
Boring Depth	0.0-3.0	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

Depth (ft bgs)	Sample Depth (ft bgs)	Recovery (ft)	Sample Description and Notes (Moisture, Color, Texture, Redox, Inclusions, Staining, Olfactory/ Visual Evidence of Contamination)	PID (PPM)	Stratum Change
0.0	to 0.56	3/26/20	brown, dry, compact, well graded	11.7	
	0-3		sand w/ few gravel - no smell		
			H.		
3.0			Bottom of Hole		



Boring ID/Well ID:	SB-41 (0-1)				
Boring Depth	0.0-1.0	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]

VHB Project # 58369.00



Boring ID/Well ID:	SB-43 (C-1)				
Boring Depth	0.0 - 1.0	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]



Boring ID/Well ID:	SB-44 (0-1)				
Boring Depth	0.0 - 1.0	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]

VHB Project # 58369.00

Site Name: Burlington Greenway Phase 3B
 Site Location: Burlington, Vermont
 Installation Date: 03/26/2020



Boring ID/Well ID:	SB-46 (0-1)				
Boring Depth	0.0 - 1.0	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

Depth (ft bgs)	Sample Depth (ft bgs)	Recovery (ft)	Sample Description and Notes (Moisture, Color, Texture, Redox, Inclusions, Staining, Olfactory/ Visual Evidence of Contamination)	PID (PPM)	Stratum Change
0.0	0.2		brown, compact, moist, poorly graded medium sand w/ trace gravel	0.0	
0.2	1.0		tan, dry, dense, fine sand, poorly graded w/ few gravel	0.0	
1.0			Bottom of Hole		



Boring ID/Well ID:	SB-47				
Boring Depth	0-1.0	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EA)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]

Site Name: Burlington Greenway Phase 3B
 Site Location: Burlington, Vermont
 Installation Date: 03/26/2020



Boring ID/Well ID:	SB-48 (0-1)				
Boring Depth	0-1.0	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

Depth (ft bgs)	Sample Depth (ft bgs)	Recovery (ft)	Sample Description and Notes (Moisture, Color, Texture, Redox, Inclusions, Staining, Olfactory/ Visual Evidence of Contamination)	PID (PPM)	Stratum Change
0.0	0.5		dark brown, compact, moist ^{dry} , poorly graded sand w/ trace gravel	0.0	
0.5	1.0		tan & moist, compact, poorly graded silty sand w/ few ^{few} gravel	0.0	
1.0			Bottom of Hole		



Boring ID/Well ID: SB-49 (0-1)					
Boring Depth	0-1.0	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EA)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]



Boring ID/Well ID:	0-1.0 SB-50 (0-1)				
Boring Depth	0-1.0	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]

Site Name: Burlington Greenway Phase 3B
 Site Location: Burlington, Vermont
 Installation Date: 03/26/2020



Boring ID/Well ID:	SB-51				
Boring Depth	0-1.0	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

Depth (ft bgs)	Sample Depth (ft bgs)	Recovery (ft)	Sample Description and Notes (Moisture, Color, Texture, Redox, Inclusions, Staining, Olfactory/ Visual Evidence of Contamination)	PID (PPM)	Stratum Change
0.0	1.0		tan, dry, loose, well graded sandy gravel	0.0	
			geotextile @ 0.5		
1.0			Bottom of Hole		

Site Name: Burlington Greenway Phase 3B
 Site Location: Burlington, Vermont
 Installation Date: 03/20/2020



Boring ID/Well ID:	SB-5				
Boring Depth	17'	Depth to Water (ft BGS)	~5'	VHB Staff	SGH
Well Depth (ft BTC)	N/A	Drilling Company			Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A	Reference Point (location)			
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A Culvert N. of Flynn Ave.				

Blows	Depth (ft bgs)	Sample Depth (ft bgs)	Recovery (ft)	Sample Description and Notes (Moisture, Color, Texture, Redox, Inclusions, Staining, Olfactory/ Visual Evidence of Contamination)	PID (PPM)	Stratum Change
	1.0			Bottom of Hole		
1/1/3/2	5-7	5-7	1.1/2'	Grey, loose, wet sand, trace sub-rounded gravel, tr. silt	0.0	
8/6/5/1	7-9		1.2/2'	Grey, wet, clayey silt (SM) tr. fine sand, tr. small organics.		
10/1/1/5	9-11	9-10.6	1.5/2'	grey, same as above, increasing clay content	0.0	
		10.6-11		grey, wet, silty sand		
2/1/5/13	11-13	11-12.2	1.7/2'	same as above	0.0	
		11.2-12.5		grey, dense, wet clay w/ trace gravel		
		12.5-13		dark grey gravelly sand and silt, r/d		T:11 12.5
5/11/20/29	13-15	13-15	1.8/2'	dense, same as above		
13/20/40	15-17			Very dense same as above		
	17'			Bottom of hole		



Boring ID/Well ID:	5B-52				
Boring Depth	0 - 1.0	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]



Boring ID/Well ID:	SB-53				
Boring Depth	1.0	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]



Boring ID/Well ID:	SB-54				
Boring Depth	1.0	Depth to Water (ft BGS)	—	VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]

Installation Date: 03/26/2020



Boring ID/Well ID:	SB-SS				
Boring Depth	LO	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]

Site Name: Burlington Greenway Phase 3B
 Site Location: Burlington, Vermont
 Installation Date: 03/20/2020



Boring ID/Well ID:	SB-56				
Boring Depth	1.0	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

Depth (ft bgs)	Sample Depth (ft bgs)	Recovery (ft)	Sample Description and Notes (Moisture, Color, Texture, Redox, Inclusions, Staining, Olfactory/ Visual Evidence of Contamination)	PID (PPM)	Stratum Change
0-0.5	0-1	0.9	Brown, dense, moist gravel, trace sand, m.s. (f (GW). Trace coal dust.	0.0	
0.5-10			Brown/red, dense, damp silt, gravel trace sand. (GM-GW)	0.0	
1.0			Bottom of Hole		

[illegible]

Site Name: Burlington Greenway Phase 3B
 Site Location: Burlington, Vermont
 Installation Date: 03/26/2020



Boring ID/Well ID:	SB-58				
Boring Depth	1.0	Depth to Water (ft BGS)	—	VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

Depth (ft bgs)	Sample Depth (ft bgs)	Recovery (ft)	Sample Description and Notes (Moisture, Color, Texture, Redox, Inclusions, Staining, Olfactory/ Visual Evidence of Contamination)	PID (PPM)	Stratum Change
0-0.5	0-1	1.0	Brown, dense, moist, sand & gravel traces: lt. (SW-GW).	0.0	
0.5-1.0			Red, dense, moist, s. lt. sand, & gravel. (SM-GM)	0.0	
1.0			Bottom of Hole		

Installation Date: 03/26/2020



Boring ID/Well ID:	SB-59				
Boring Depth	1.0	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EA)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]



Boring ID/Well ID:	SB-60				
Boring Depth	1.0	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]



Boring ID/Well ID:	SB-61				
Boring Depth	1.0	Depth to Water (ft BGS)	—	VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]



Boring ID/Well ID:	SB-62				
Boring Depth	10	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]

Installation Date: 03/25/2020



Boring ID/Well ID:	SB-63				
Boring Depth	1.0	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]



Boring ID/Well ID:	SB-64				
Boring Depth	1.5	Depth to Water (ft BGS)	—	VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]



Boring ID/Well ID:	SB-65				
Boring Depth	1.5	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]

Site Name: Burlington Greenway Phase 3B
 Site Location: Burlington, Vermont
 Installation Date: 03/26/2020



Boring ID/Well ID:	53-66				
Boring Depth	0-1.5	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EA)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

Depth (ft bgs)	Sample Depth (ft bgs)	Recovery (ft)	Sample Description and Notes (Moisture, Color, Texture, Redox, Inclusions, Staining, Olfactory/ Visual Evidence of Contamination)	PID (PPM)	Stratum Change
0.0	0.5	0.5	brown, dry, dense, poorly graded sand, trace gravel	0.0	
0.5	1.3		greyish tan, moist, silt w/ trace sand and gravel	0.0	
1.3	1.5		reddish brown, see above	0.0	
1.0			Bottom of Hole		

Site Name: Burlington Greenway Phase 3B
 Site Location: Burlington, Vermont
 Installation Date: 03/26/2020



Boring ID/Well ID:	GB-67				
Boring Depth	0~1.5	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

Depth (ft bgs)	Sample Depth (ft bgs)	Recovery (ft)	Sample Description and Notes (Moisture, Color, Texture, Redox, Inclusions, Staining, Olfactory/ Visual Evidence of Contamination)	PID (PPM)	Stratum Change
0.0	0.5	0.5	brown, dry, dense, poorly graded sand, trace gravel	0.0	
0.5	1.5	1.0	brown, moist, dense, poorly graded sand some gravel	0.0	
1.0			Bottom of Hole		

Site Name: Burlington Greenway Phase 3B
 Site Location: Burlington, Vermont
 Installation Date: 03/26 /2020



Boring ID/Well ID:	GB-63				
Boring Depth	0-1.5	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

Depth (ft bgs)	Sample Depth (ft bgs)	Recovery (ft)	Sample Description and Notes (Moisture, Color, Texture, Redox, Inclusions, Staining, Olfactory/ Visual Evidence of Contamination)	PID (PPM)	Stratum Change
0.0	0.5	0.5	brn, dry, dense, poorly graded sand, - no gravel	0.0	
0.5	1.5	1.0	greyish brown, moist, poorly graded silty sand, fine few gravel + brick fragments and cinders	0.0	
1.0			Bottom of Hole		

[illegible]



Boring ID/Well ID:	SB-70				
Boring Depth	1.5	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]



Boring ID/Well ID:	SB-71				
Boring Depth	1.5	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EA)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]



Boring ID/Well ID:	SB-72				
Boring Depth	1.5	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EA)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]

Boring ID/Well ID:	SB-73				
Boring Depth	1.5	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EA)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				

[illegible]

[illegible]



Boring ID/Well ID:	SB-75				
Boring Depth	SCM 31.25 ft 1.51.0	Depth to Water (ft BGS)		VHB Staff	SGH
Well Depth (ft BTC)	N/A			Drilling Company	Eastern Analytical, Inc. (EAI)
Screen Diameter (ft)	N/A	Depth Range (ft)	N/A	Sample Method	Split spoon
Screen Type/Size	N/A			Reference Point (location)	
Riser Diameter (ft)	N/A	Depth Range (ft)	N/A		
Riser Type/Size (ft)	N/A				
Notes	N/A				



ATTACHMENT C

DATA SUMMARY TABLES

The following acronyms are applicable to the text and/or tables

Acronyms

*	=	EPA RSL value is used for comparison to soil results as no VSS is available
**	=	Units are for ug/L unless otherwise noted
--- or --	=	Value Not Available or Not Calculated
BaP	=	Benzo(a)pyrene
Comp	=	Composite Sample
DRO	=	Diesel Range Organics
EAI	=	Eastern Analytical of Manchester, New Hampshire
GRO	=	Gasoline Range Organics
IRULE	=	VTDEC Investigation and Remediation of Contaminated Properties Rule, July 6, 2019
NA	=	Not Analyzed
PCB	=	Polychlorinated Biphenyl
PAH	=	Polycyclic Aromatic Hydrocarbon
PCB	=	Polychlorinated Biphenyl
PID	=	Photoionization Detector
Res	=	Vermont Residential Soil Standards (IRULE, 2019)
RSL	=	USEPA Regional Screening Level
SB	=	Soil Boring
SB	=	Soil Boring
VSS	=	Vermont Soil Standard Level from the IRULE. If available, VSS trumps RSL
SU	=	Standard Unit
SVOC	=	Semi-Volatile Organic Compound
TEF	=	Toxicity Equivalence Factors, World Health Organization, 2005
TEQ	=	Toxicity Equivalency (calculated from toxicity equivalence factors)
TPH	=	Total Petroleum Hydrocarbon
USEPA	=	United States Environmental Protection Agency
Urb. Bkgrd	=	VTDEC Urban Background Concentration
VOC	=	Volatile Organic Compound

Cell & Text Shading

Regulatory Standards		Regulatory Standards (applies to BaP TEQ only)	
Red w/ White Text	=	Detected Analytical Result exceeds: a) Residential VSS	Red w/ White Text = Analytical Value Exceeds VTDEC Urban Background Soil Concentration (0.58 mg/kg)
Regular Text	=	Detected Analytical Result is less than: a) Residential VSS	Yellow w/ Black Text = Analytical Value Exceeds Residential VSS (0.07 mg/kg), but is Less than the VTDEC Urban Background Soil Concentration (0.58 mg/kg).
Gray Text	=	Analytical Result: value is non-detect	
Underlined Gray Text	=	Analytical Result is non-detect but laboratory reporting limit exceeds Residential VSS	Green w/ Black Text = Analytical Value is less than Residential VSS (0.07 mg/kg).

Data Results and Qualifiers

ND <	=	not detected, value given is the laboratory reporting limit
------	---	---

Units

fbgs	=	feet below ground surface
ft	=	feet
mg/kg	=	milligrams per kilogram

Table 1- Soil VOC Analytical Results
Burlington Greenway Rehabilitation - Phase 3B
Last Revised: April 16, 2020

Sample ID: Sample Depth (ft): Sample Date:			Comp23,24,25,26 0-1 03/25/20	Comp27,28,29,30 0-1 03/25/20	Comp31,32,33,34 0-1 03/25/20	Comp35,36,37,38 0-1 03/25/20	Comp39,40 0-3 03/26/20	Comp41,42,43 0-1 03/26/20	Comp44,45,46,47 0-1 03/26/20	Comp48,49,50,51 0-1 03/26/20
Analyte	Screening Level		Units							
	Non Res	Res								
Trimethylbenzene, 1,2,3-	177	144	mg/kg	--	--	--	--	--	--	--
Trimethylbenzene, 1,2,4-	177	144	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Trimethylbenzene, 1,3,5-	177	144	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Total Trimethylbenzene	177	144	mg/kg	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
1,2-Dibromoethane(EDB)	0.14	0.02	mg/kg	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02
2-Butanone(MEK)	26991	16952	mg/kg	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
2-Hexanone	1300*	200*	mg/kg	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
4-Methyl-2-pentanone(MIBK)	140000*	33000*	mg/kg	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Acetone	100028	40609	mg/kg	ND<2	ND<2	ND<2	ND<2	ND<2	ND<2	ND<2
Benzene	4.2	0.7	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Bromobenzene	1800*	290*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Bromoform	86*	19*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Bromomethane	30*	6.8*	mg/kg	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
Carbon disulfide	662	608	mg/kg	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
Dibromomethane	99*	24*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Diethyl Ether	230000*	16000*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Ethylbenzene	22	3.7	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
IsoPropylbenzene	264	256	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Methyl-t-butyl ether(MTBE)	4464	649	mg/kg	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
Naphthalene	16	2.7	mg/kg	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
n-Butylbenzene	51100	3504	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
n-Propylbenzene	261	253	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
p-Isopropyltoluene	---	---	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
sec-Butylbenzene	102200	7009	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Styrene	35000*	6000*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
tert-Butylbenzene	102200	7009	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Tetrahydrofuran(THF)	94000*	18000*	mg/kg	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Toluene	798	706	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,1,1,2-Tetrachloroethane	8	1.3	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,1,2-Trichloroethane	36000*	8100*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,1,2,2-Tetrachloroethane	2.7*	0.6*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,1,2-Trichloroethane	5*	1.1*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,1-Dichloroethane	13	2.1	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,1-Dichloroethene	1000*	230*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,1-Dichloropropene	---	---	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,2,3-Trichlorobenzene	930*	63*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,2,3-Trichloropropane	0.07	0.00311	mg/kg	ND<0.00311	ND<0.00311	ND<0.00311	ND<0.00311	ND<0.00311	ND<0.00311	ND<0.00311
1,2,4-Trichlorobenzene	110*	24*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,2-Dibromo-3-chloropropane	0.06	0.01	mg/kg	ND<0.0053	ND<0.0053	ND<0.0053	ND<0.0053	ND<0.0053	ND<0.0053	ND<0.0053
1,2-Dichlorobenzene	9300*	1800*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,2-Dichloroethane	1.7	0.29	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,2-Dichloropropane	9.1	1.5	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,3-Dichlorobenzene	---	---	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,3-Dichloropropane	23000*	1600*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,4-Dichlorobenzene	11*	2.6*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
2,2-Dichloropropane	---	---	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
2-Chlorotoluene	23000*	1600*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
4-Chlorotoluene	23000*	1600*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Bromochloromethane	597	193	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Bromodichloromethane	1.3*	0.29*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Carbon tetrachloride	2.2	0.37	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Chlorobenzene	726	414	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Chloroethane	57000*	14000*	mg/kg	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
Chloroform	1.4*	0.32*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Chloromethane	460*	110*	mg/kg	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
cis-1,2-Dichloroethene	1814	140	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
cis-1,3-Dichloropropene	---	---	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Dibromochloromethane	39*	8.3*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Dichlorodifluoromethane	370*	87*	mg/kg	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
Hexachlorobutadiene	5.3*	1.2*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Methylene chloride	1000*	57*	mg/kg	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
Tetrachloroethene	14	2.4	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
trans-1,2-Dichloroethene	18137	1402	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
trans-1,3-Dichloropropene	---	---	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Trichloroethene	6.5	0.68	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Trichlorofluoromethane	350000*	23000*	mg/kg	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
Vinyl chloride	0.59	0.1	mg/kg	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02
mp-Xylene	---	---	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
o-Xylene	2800*	650*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Total Xylenes	257	252	mg/kg	--	--	--	--	--	--	--

* EPA RSL value is used for comparison to soil results as no VSS is available

Table 1 - Soil VOC Analytical Results
Burlington Greenway Rehabilitation - Phase 3B
Last Revised: April 16, 2020

Sample ID: Sample Depth (ft): Sample Date:				SB-51 5-7 3/26/20	Comp52,53,54,55 0-1 03/26/20	Comp56,57,58,59 0-1 03/26/20	Comp60,61,62,63 0-1 03/26/20	Comp64,65,66,67 0-1.5 03/26/20	Comp68,69,70,71 0-1.5 03/26/20	Comp72,73,74,75 0-1.5 03/25/20	TripBlank-1 3/25/20	TripBlank-2 3/25/20
Analyte	Screening Level											
	Non Res	Res	Units									
Trimethylbenzene, 1,2,3-	177	144	mg/kg	--	--	--	--	--	--	--	--	--
Trimethylbenzene, 1,2,4-	177	144	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Trimethylbenzene, 1,3,5-	177	144	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
<i>Total Trimethylbenzene</i>	177	144	mg/kg	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
1,2-Dibromoethane(EDB)	0.14	0.02	mg/kg	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02
2-Butanone(MEK)	26991	16952	mg/kg	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
2-Hexanone	1300*	200*	mg/kg	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
4-Methyl-2-pentanone(MIBK)	140000*	33000*	mg/kg	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Acetone	100028	40609	mg/kg	ND<2	ND<2	ND<2	ND<2	ND<2	ND<2	ND<2	ND<2	ND<2
Benzene	4.2	0.7	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Bromobenzene	1800*	290*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Bromoforn	86*	19*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Bromomethane	30*	6.8*	mg/kg	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
Carbon disulfide	662	608	mg/kg	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
Dibromomethane	99*	24*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Diethyl Ether	230000*	16000*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Ethylbenzene	22	3.7	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
IsoPropylbenzene	264	256	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Methyl-t-butyl ether(MTBE)	4464	649	mg/kg	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
Naphthalene	16	2.7	mg/kg	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
n-Butylbenzene	51100	3504	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
n-Propylbenzene	261	253	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
p-Isopropyltoluene	---	---	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
sec-Butylbenzene	102200	7009	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Styrene	35000*	6000*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
tert-Butylbenzene	102200	7009	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Tetrahydrofuran(THF)	94000*	18000*	mg/kg	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Toluene	798	706	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,1,1,2-Tetrachloroethane	8	1.3	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,1,1-Trichloroethane	36000*	8100*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,1,2,2-Tetrachloroethane	2.7*	0.6*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,1,2-Trichloroethane	5*	1.1*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,1-Dichloroethane	13	2.1	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,1-Dichloroethene	1000*	230*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,1-Dichloropropene	---	---	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,2,3-Trichlorobenzene	930*	63*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,2,3-Trichloropropane	0.07	0.00311	mg/kg	ND<0.00311	ND<0.00311	ND<0.00311	ND<0.00311	ND<0.00311	ND<0.00311	ND<0.00311	ND<0.00311	ND<0.00311
1,2,4-Trichlorobenzene	110*	24*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,2-Dibromo-3-chloropropane	0.06	0.01	mg/kg	ND<0.0053	ND<0.0053	ND<0.0053	ND<0.0053	ND<0.0053	ND<0.0053	ND<0.0053	ND<0.0053	ND<0.0053
1,2-Dichlorobenzene	9300*	1800*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,2-Dichloroethane	1.7	0.29	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,2-Dichloropropane	9.1	1.5	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,3-Dichlorobenzene	---	---	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,3-Dichloropropane	23000*	1600*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
1,4-Dichlorobenzene	11*	2.6*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
2,2-Dichloropropane	---	---	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
2-Chlorotoluene	23000*	1600*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
4-Chlorotoluene	23000*	1600*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Bromochloromethane	597	193	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Bromodichloromethane	1.3*	0.29*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Carbon tetrachloride	2.2	0.37	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Chlorobenzene	726	414	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Chloroethane	57000*	14000*	mg/kg	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
Chloroform	1.4*	0.32*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Chloromethane	460*	110*	mg/kg	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
cis-1,2-Dichloroethene	1814	140	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
cis-1,3-Dichloropropene	---	---	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Dibromochloromethane	39*	8.3*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Dichlorodifluoromethane	370*	87*	mg/kg	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
Hexachlorobutadiene	5.3*	1.2*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Methylene chloride	1000*	57*	mg/kg	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
Tetrachloroethene	14	2.4	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
trans-1,2-Dichloroethene	18137	1402	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
trans-1,3-Dichloropropene	---	---	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Trichloroethene	6.5	0.68	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Trichlorofluoromethane	350000*	23000*	mg/kg	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
Vinyl chloride	0.59	0.1	mg/kg	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02
mp-Xylene	---	---	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
o-Xylene	2800*	650*	mg/kg	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
<i>Total Xylenes</i>	257	252	mg/kg	--	--	--	--	--	--	--	--	--

* EPA RSL value is used for comparison to soil results as no VSS is available

Table 2 - Soil SVOC Analytical Results
Burlington Greenway Rehabilitation - Phase 3B
Last Revised: April 16, 2020

						Sample ID: Sample Depth (ft): Sample Date:	Comp23,24,25,26 0-1 03/25/20	Comp27,28,29,30 0-1 03/25/20	Comp31,32,33,34 0-1 03/25/20	Comp35,36,37,38 0-1 03/25/20	SB-35 0-1 03/25/20	SB-36 0-1 03/25/20	SB-37 0-1 03/25/20	SB-38 0-1 03/25/20	Comp39,40 0-3 03/26/20
Analyte	Screening Level				Units										
	Non Res	Res	Urb. Bkmd	TEF											
1,2,4-Trichlorobenzene	110*	24*	---	---	mg/kg		ND <0.08	ND <0.08	ND <0.07	ND <0.08	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	ND <0.08
1,2-Dichlorobenzene	9300*	1800*	---	---	mg/kg		ND <0.08	ND <0.08	ND <0.07	ND <0.08					ND <0.08
1,3-Dichlorobenzene	---	---	---	---	mg/kg		ND <0.08	ND <0.08	ND <0.07	ND <0.08					ND <0.08
1,4-Dichlorobenzene	11*	2.6*	---	---	mg/kg		ND <0.08	ND <0.08	ND <0.07	ND <0.08					ND <0.08
2,3-Dichloroaniline	---	---	---	---	mg/kg		ND <0.08	ND <0.08	ND <0.07	ND <0.08					ND <0.08
2,4,5-Trichlorophenol	82000*	6300*	---	---	mg/kg		ND <0.08	ND <0.08	ND <0.07	ND <0.08					ND <0.08
2,4,6-Trichlorophenol	210*	49*	---	---	mg/kg		ND <0.08	ND <0.08	ND <0.07	ND <0.08					ND <0.08
2,4-Dichlorophenol	2500*	190*	---	---	mg/kg		ND <0.08	ND <0.08	ND <0.07	ND <0.08					ND <0.08
2,4-Dimethylphenol	16000*	1300*	---	---	mg/kg		ND <0.4	ND <0.4	ND <0.4	ND <0.4					ND <0.4
2,4-Dinitrophenol	1600*	130*	---	---	mg/kg		ND <0.7	ND <0.7	ND <0.7	ND <0.7					ND <0.8
2,4-Dinitrotoluene	7.4*	1.7*	---	---	mg/kg		ND <0.4	ND <0.4	ND <0.4	ND <0.4					ND <0.4
2,6-Dinitrotoluene	1.5*	0.36*	---	---	mg/kg		ND <0.2	ND <0.2	ND <0.2	ND <0.2					ND <0.2
2-Chloronaphthalene	60000*	4800*	---	---	mg/kg		ND <0.08	ND <0.08	ND <0.07	ND <0.08					ND <0.08
2-Chlorophenol	5800*	390*	---	---	mg/kg		ND <0.08	ND <0.08	ND <0.07	ND <0.08					ND <0.08
2-Methylphenol	41000*	3200*	---	---	mg/kg		ND <0.08	ND <0.08	ND <0.07	ND <0.08					ND <0.08
2-Nitroaniline	8000*	630*	---	---	mg/kg		ND <0.4	ND <0.4	ND <0.4	ND <0.4					ND <0.4
2-Nitrophenol	---	---	---	---	mg/kg		ND <0.4	ND <0.4	ND <0.4	ND <0.4					ND <0.4
3,3'-Dichlorobenzidine	5.1*	1.2*	---	---	mg/kg		ND <0.08	ND <0.08	ND <0.07	ND <0.08					ND <0.08
3/4-Methylphenol	---	---	---	---	mg/kg		ND <0.08	ND <0.08	ND <0.07	ND <0.08					ND <0.08
3-Nitroaniline	---	---	---	---	mg/kg		ND <0.4	ND <0.4	ND <0.4	ND <0.4					ND <0.4
4,6-Dinitro-2-methylphenol	66*	5.1*	---	---	mg/kg		ND <0.4	ND <0.4	ND <0.4	ND <0.4					ND <0.4
4-Bromophenyl-phenylether	---	---	---	---	mg/kg		ND <0.08	ND <0.08	ND <0.07	ND <0.08					ND <0.08
4-Chloro-3-methylphenol	82000*	6300*	---	---	mg/kg		ND <0.08	ND <0.08	ND <0.07	ND <0.08					ND <0.08
4-Chloroaniline	11*	2.7*	---	---	mg/kg		ND <0.08	ND <0.08	ND <0.07	ND <0.08					ND <0.08
4-Chlorophenyl-phenylether	---	---	---	---	mg/kg		ND <0.08	ND <0.08	ND <0.07	ND <0.08					ND <0.08
4-Nitroaniline	110*	27*	---	---	mg/kg		ND <0.4	ND <0.4	ND <0.4	ND <0.4					ND <0.4
4-Nitrophenol	---	---	---	---	mg/kg		ND <0.4	ND <0.4	ND <0.4	ND <0.4					ND <0.4
Acetophenone	120000*	7800*	---	---	mg/kg		ND <0.7	ND <0.7	ND <0.7	ND <0.7					ND <0.8
alpha-Terpineol	---	---	---	---	mg/kg		ND <0.4	ND <0.4	ND <0.4	ND <0.4					ND <0.4
Aniline	400*	95*	---	---	mg/kg		ND <0.08	ND <0.08	ND <0.07	ND <0.08					ND <0.08
Azobenzene	26*	5.6*	---	---	mg/kg		ND <0.08	ND <0.08	ND <0.07	ND <0.08					ND <0.08
Benzidine (estimated)	0.01*	0.00053*	---	---	mg/kg		ND <0.4	ND <0.4	ND <0.4	ND <0.4					ND <0.4
Benzoic Acid	3300000*	250000*	---	---	mg/kg		ND <4	ND <4	ND <4	ND <4					ND <4
Benzyl alcohol	82000*	6300*	---	---	mg/kg		ND <0.7	ND <0.7	ND <0.7	ND <0.7					ND <0.8
bis(2-Chloroethoxy)methane	2500*	190*	---	---	mg/kg		ND <0.08	ND <0.08	ND <0.07	ND <0.08					ND <0.08
bis(2-Chloroethyl)ether	1*	0.23*	---	---	mg/kg		ND <0.08	ND <0.08	ND <0.07	ND <0.08					ND <0.08
bis(2-chloroisopropyl)ether	36274	2804	---	---	mg/kg		ND <0.08	ND <0.08	ND <0.07	ND <0.08					ND <0.08
bis(2-Ethylhexyl)phthalate	120	20	---	---	mg/kg		ND <0.4	ND <0.4	ND <0.4	ND <0.4					ND <0.4
Butylbenzylphthalate	1200*	290*	---	---	mg/kg		ND <0.4	ND <0.4	ND <0.4	ND <0.4					ND <0.4
Carbazole	---	---	---	---	mg/kg		ND <0.08	ND <0.08	ND <0.07	0.11					ND <0.08
Dibenzofuran	1000*	73*	---	---	mg/kg		ND <0.08	ND <0.08	ND <0.07	ND <0.08					ND <0.08

* EPA RSL value is used for comparison to soil results as no VSS is available

Table 2 - Soil SVOC Analytical Results
Burlington Greenway Rehabilitation - Phase 3B
Last Revised: April 16, 2020

Sample ID: Sample Depth (ft): Sample Date:						Comp23,24,25,26 0-1 03/25/20	Comp27,28,29,30 0-1 03/25/20	Comp31,32,33,34 0-1 03/25/20	Comp35,36,37,38 0-1 03/25/20	SB-35 0-1 03/25/20	SB-36 0-1 03/25/20	SB-37 0-1 03/25/20	SB-38 0-1 03/25/20	Comp39,40 0-3 03/26/20			
Analyte	Screening Level				Units												
	Non Res	Res	Urb. Bkrnd	TEF													
Diethylphthalate	660000*	51000*	---	---	mg/kg	ND<0.4	ND<0.4	ND<0.4	ND<0.4	Not Analyzed				ND<0.4			
Dimethylphthalate	---	---	---	---	mg/kg	ND<0.08	ND<0.08	ND<0.07	ND<0.08					ND<0.08			
Di-n-butylphthalate	82000*	6300*	---	---	mg/kg	ND<0.4	ND<0.4	ND<0.4	ND<0.4					ND<0.4			
Di-n-octylphthalate	8200*	630*	---	---	mg/kg	ND<0.4	ND<0.4	ND<0.4	ND<0.4					ND<0.4			
Hexachlorobenzene	0.69	0.13	---	---	mg/kg	ND<0.08	ND<0.08	ND<0.07	ND<0.08					ND<0.08			
Hexachlorobutadiene	5.3*	1.2*	---	---	mg/kg	ND<0.08	ND<0.08	ND<0.07	ND<0.08					ND<0.08			
Hexachlorocyclopentadiene	7.5*	1.8*	---	---	mg/kg	ND<0.4	ND<0.4	ND<0.4	ND<0.4					ND<0.4			
Hexachloroethane	8*	1.8*	---	---	mg/kg	ND<0.08	ND<0.08	ND<0.07	ND<0.08					ND<0.08			
Isophorone	2400*	570*	---	---	mg/kg	ND<0.08	ND<0.08	ND<0.07	ND<0.08					ND<0.08			
n-Decane	---	---	---	---	mg/kg	ND<0.4	ND<0.4	ND<0.4	ND<0.4					ND<0.4			
Nitrobenzene	22*	5.1*	---	---	mg/kg	ND<0.08	ND<0.08	ND<0.07	ND<0.08					ND<0.08			
N-Nitrosodimethylamine	0.034*	0.002*	---	---	mg/kg	ND<0.08	ND<0.08	ND<0.07	ND<0.08					ND<0.08			
n-Nitroso-di-n-propylamine	0.33*	0.078*	---	---	mg/kg	ND<0.04	ND<0.04	ND<0.07	ND<0.04					ND<0.04			
n-Nitrosodiphenylamine	470*	110*	---	---	mg/kg	ND<0.08	ND<0.08	ND<0.07	ND<0.08					ND<0.08			
n-Octadecane	---	---	---	---	mg/kg	ND<0.4	ND<0.4	ND<0.4	ND<0.4					ND<0.4			
Pentachlorophenol	2.9	0.48	---	---	mg/kg	ND<0.4	ND<0.4	ND<0.4	ND<0.4					ND<0.4			
Phenol	250000*	19000*	---	---	mg/kg	ND<0.08	ND<0.08	ND<0.07	ND<0.08					ND<0.08			
Pyridine	1200*	78*	---	---	mg/kg	ND<0.4	ND<0.4	ND<0.4	ND<0.4					ND<0.4			
Polycyclic Aromatic Hydrocarbons (PAHs)																	
1-Methylnaphthalene	73*	18*	---	---	mg/kg	ND<0.007	ND<0.007	0.11	0.026	ND<0.008	ND<0.008	ND<0.04	0.026	ND<0.008			
2-Methylnaphthalene	3000*	240*	---	---	mg/kg	ND<0.007	ND<0.007	0.12	0.024	ND<0.008	ND<0.008	ND<0.04	0.025	ND<0.008			
Acenaphthene	45000*	3600*	---	---	mg/kg	0.0079	ND<0.007	ND<0.007	0.054	ND<0.008	ND<0.008	0.071	0.19	ND<0.008			
Acenaphthylene	---	---	---	---	mg/kg	ND<0.007	ND<0.007	0.032	0.021	ND<0.008	ND<0.008	0.081	0.016	ND<0.008			
Anthracene	230000*	18000*	---	---	mg/kg	0.017	ND<0.007	0.017	0.19	ND<0.008	ND<0.008	0.32	0.61	ND<0.008			
Benzo[g,h,i]perylene	---	---	---	---	mg/kg	0.039	0.02	0.056	0.15	ND<0.008	ND<0.008	0.31	0.35	ND<0.008			
Fluoranthene	26371	2301	---	---	mg/kg	0.14	0.065	0.13	1.1	0.035	0.011	2	2.5	0.022			
Fluorene	26371	2301	---	---	mg/kg	0.0091	ND<0.007	ND<0.007	0.075	ND<0.008	ND<0.008	0.095	0.25	ND<0.008			
Naphthalene	16	2.7	---	---	mg/kg	ND<0.007	ND<0.007	0.07	0.026	ND<0.008	ND<0.008	ND<0.04	0.025	ND<0.008			
Phenanthrene	---	---	---	---	mg/kg	0.082	0.029	0.081	0.75	0.021	ND<0.008	1.1	2	0.009			
Pyrene	23000*	1800*	---	---	mg/kg	0.11	0.057	0.14	0.83	0.029	0.01	1.5	1.9	0.017			
PAH-Benzo(a)pyrene Toxicity Equivalency (BaP-TEQ)																	
Benzo[a]anthracene	21*	1.1*	---	0.1	mg/kg	0.066	0.033	0.086	0.52	0.019	0.0099	0.93	1.2	0.012			
Benzo[a]pyrene	1.54	0.07	---	1	mg/kg	0.072	0.039	0.1	0.47	0.016	ND<0.008	0.94	1.1	0.014			
Benzo[b]fluoranthene	21*	1.1*	---	0.1	mg/kg	0.094	0.051	0.15	0.64	0.022	0.01	1.4	1.4	0.024			
Benzo[k]fluoranthene	210*	11*	---	0.01	mg/kg	0.034	0.017	0.056	0.25	0.0085	ND<0.008	0.5	0.49	ND<0.008			
Chrysene	2100*	110*	---	0.001	mg/kg	0.073	0.036	0.11	0.54	0.019	ND<0.008	1.1	1.2	0.013			
Dibenz[a,h]anthracene	2.1*	0.11*	---	1	mg/kg	0.01	ND<0.007	0.017	0.05	ND<0.008	ND<0.008	0.099	0.13	ND<0.008			
Indeno[1,2,3-cd]pyrene	21*	1.1*	---	0.1	mg/kg	0.043	0.023	0.063	0.19	ND<0.008	ND<0.008	0.38	0.45	ND<0.008			
Analyte	Non Res	Res	Urb. Bkrnd	TEF	Units												
BaP TEQ	1.54	0.07	0.58	---	mg/kg	0.103	0.053	0.15	0.66	0.025	0.0104	1.32	1.54	0.022			

* EPA RSL value is used for comparison to soil results as no VSS is available

Table 2 - Soil SVOC Analytical Results
Burlington Greenway Rehabilitation - Phase 3B
Last Revised: April 16, 2020

Analyte	Sample ID: Sample Depth (ft): Sample Date:					Comp41,42,43 0-1 03/26/20	Comp44,45,46,47 0-1 03/26/20	Comp48,49,50,51 0-1 03/26/20	SB-51 5-7 03/26/20	Comp52,53,54,55 0-1 03/26/20	Comp56,57,58,59 0-1 03/26/20	Comp60,61,62,63 0-1 03/26/20	Comp64,65,66,67 0-1.5 03/26/20	Comp68,69,70,71 0-1.5 03/26/20	Comp72,73,74,75 0-1.5 03/25/20
	Screening Level					TEF	Units								
	Non Res	Res	Urb. Bkrnd	TEF	Units										
1,2,4-Trichlorobenzene	110*	24*	---	---	mg/kg										
1,2-Dichlorobenzene	9300*	1800*	---	---	mg/kg										
1,3-Dichlorobenzene	---	---	---	---	mg/kg										
1,4-Dichlorobenzene	11*	2.6*	---	---	mg/kg										
2,3-Dichloroaniline	---	---	---	---	mg/kg										
2,4,5-Trichlorophenol	82000*	6300*	---	---	mg/kg										
2,4,6-Trichlorophenol	210*	49*	---	---	mg/kg										
2,4-Dichlorophenol	2500*	190*	---	---	mg/kg										
2,4-Dimethylphenol	16000*	1300*	---	---	mg/kg										
2,4-Dinitrophenol	1600*	130*	---	---	mg/kg										
2,4-Dinitrotoluene	7.4*	1.7*	---	---	mg/kg										
2,6-Dinitrotoluene	1.5*	0.36*	---	---	mg/kg										
2-Chloronaphthalene	60000*	4800*	---	---	mg/kg										
2-Chlorophenol	5800*	390*	---	---	mg/kg										
2-Methylphenol	41000*	3200*	---	---	mg/kg										
2-Nitroaniline	8000*	630*	---	---	mg/kg										
2-Nitrophenol	---	---	---	---	mg/kg										
3,3'-Dichlorobenzidine	5.1*	1.2*	---	---	mg/kg										
3,4-Methylphenol	---	---	---	---	mg/kg										
3-Nitroaniline	---	---	---	---	mg/kg										
4,6-Dinitro-2-methylphenol	66*	5.1*	---	---	mg/kg										
4-Bromophenyl-phenylether	---	---	---	---	mg/kg										
4-Chloro-3-methylphenol	82000*	6300*	---	---	mg/kg										
4-Chloroaniline	11*	2.7*	---	---	mg/kg										
4-Chlorophenyl-phenylether	---	---	---	---	mg/kg										
4-Nitroaniline	110*	27*	---	---	mg/kg										
4-Nitrophenol	---	---	---	---	mg/kg										
Acetophenone	120000*	7800*	---	---	mg/kg										
alpha-Terpineol	---	---	---	---	mg/kg										
Aniline	400*	95*	---	---	mg/kg										
Azobenzene	26*	5.6*	---	---	mg/kg										
Benzidine (estimated)	0.01*	0.00053*	---	---	mg/kg										
Benzoic Acid	3300000*	250000*	---	---	mg/kg										
Benzyl alcohol	82000*	6300*	---	---	mg/kg										
bis(2-Chloroethoxy)methane	2500*	190*	---	---	mg/kg										
bis(2-Chloroethyl)ether	1*	0.23*	---	---	mg/kg										
bis(2-chloroisopropyl)ether	36274	2804	---	---	mg/kg										
bis(2-Ethylhexyl)phthalate	120	20	---	---	mg/kg										
Butylbenzylphthalate	1200*	290*	---	---	mg/kg										
Carbazole	---	---	---	---	mg/kg										
Dibenzofuran	1000*	73*	---	---	mg/kg										

* EPA RSL value is used for comparison to soil results as no VSS is available

Table 2 - Soil SVOC Analytical Results
Burlington Greenway Rehabilitation - Phase 3B
Last Revised: April 16, 2020

Sample ID: Sample Depth (ft): Sample Date:						Comp41,42,43 0-1 03/26/20	Comp44,45,46,47 0-1 03/26/20	Comp48,49,50,51 0-1 03/26/20	SB-51 5-7 03/26/20	Comp52,53,54,55 0-1 03/26/20	Comp56,57,58,59 0-1 03/26/20	Comp60,61,62,63 0-1 03/26/20	Comp64,65,66,67 0-1.5 03/26/20	Comp68,69,70,71 0-1.5 03/26/20	Comp72,73,74,75 0-1.5 03/25/20
Analyte	Screening Level														
	Non Res	Res	Urb. Bkrnd	TEF	Units										
Diethylphthalate	660000*	51000*	---	---	mg/kg	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4
Dimethylphthalate	---	---	---	---	mg/kg	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08
Di-n-butylphthalate	82000*	6300*	---	---	mg/kg	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4
Di-n-octylphthalate	8200*	630*	---	---	mg/kg	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4
Hexachlorobenzene	0.69	0.13	---	---	mg/kg	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08
Hexachlorobutadiene	5.3*	1.2*	---	---	mg/kg	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08
Hexachlorocyclopentadiene	7.5*	1.8*	---	---	mg/kg	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4
Hexachloroethane	8*	1.8*	---	---	mg/kg	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08
Isophorone	2400*	570*	---	---	mg/kg	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08
n-Decane	---	---	---	---	mg/kg	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4
Nitrobenzene	22*	5.1*	---	---	mg/kg	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08
N-Nitrosodimethylamine	0.034*	0.002*	---	---	mg/kg	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08
n-Nitroso-di-n-propylamine	0.33*	0.078*	---	---	mg/kg	ND<0.04	ND<0.04	ND<0.04	ND<0.04	ND<0.04	ND<0.04	ND<0.04	ND<0.04	ND<0.04	ND<0.04
n-Nitrosodiphenylamine	470*	110*	---	---	mg/kg	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08
n-Octadecane	---	---	---	---	mg/kg	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4
Pentachlorophenol	2.9	0.48	---	---	mg/kg	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4
Phenol	250000*	19000*	---	---	mg/kg	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08
Pyridine	1200*	78*	---	---	mg/kg	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4	ND<0.4
Polycyclic Aromatic Hydrocarbons (PAHs)															
1-Methylnaphthalene	73*	18*	---	---	mg/kg	ND<0.008	0.012	ND<0.008	ND<0.008	0.019	0.011	0.023	ND<0.008	ND<0.008	ND<0.008
2-Methylnaphthalene	3000*	240*	---	---	mg/kg	ND<0.008	0.0097	ND<0.008	ND<0.008	0.028	0.014	0.031	0.0087	ND<0.008	0.0091
Acenaphthene	45000*	3600*	---	---	mg/kg	ND<0.008	0.051	ND<0.008	0.025	ND<0.008	ND<0.007	ND<0.007	ND<0.008	ND<0.008	ND<0.008
Acenaphthylene	---	---	---	---	mg/kg	ND<0.008	ND<0.008	ND<0.008	ND<0.008	0.048	0.021	0.087	0.015	ND<0.008	ND<0.008
Anthracene	230000*	18000*	---	---	mg/kg	ND<0.008	0.15	ND<0.008	ND<0.008	0.043	0.016	0.03	ND<0.008	ND<0.008	ND<0.008
Benzo(g,h,i)perylene	---	---	---	---	mg/kg	ND<0.008	0.076	ND<0.008	0.012	0.18	0.14	0.19	0.029	ND<0.008	0.028
Fluoranthene	26371	2301	---	---	mg/kg	0.016	0.6	0.013	0.025	0.33	0.2	0.29	0.066	0.011	0.035
Fluorene	26371	2301	---	---	mg/kg	ND<0.008	0.059	ND<0.008	0.01	0.016	ND<0.007	0.017	ND<0.008	ND<0.008	ND<0.008
Naphthalene	16	2.7	---	---	mg/kg	ND<0.008	0.012	ND<0.008	ND<0.008	0.026	0.013	0.029	0.0094	ND<0.008	ND<0.008
Phenanthrene	---	---	---	---	mg/kg	0.0095	0.5	ND<0.008	0.015	0.12	0.069	0.077	0.026	ND<0.008	0.024
Pyrene	23000*	1800*	---	---	mg/kg	0.012	0.43	0.01	0.02	0.31	0.19	0.32	0.063	0.0095	0.033
PAH-Benzo(a)pyrene Toxicity Equivalency (BaP-TEQ)															
Benzo(a)anthracene	21*	1.1*	---	0.1	mg/kg	0.01	0.29	0.0096	0.013	0.17	0.096	0.17	0.039	0.0087	0.02
Benzo(a)pyrene	1.54	0.07	---	1	mg/kg	0.0091	0.28	0.0081	0.012	0.28	0.19	0.31	0.052	ND<0.008	0.035
Benzo(b)fluoranthene	21*	1.1*	---	0.1	mg/kg	0.015	0.42	0.013	0.018	0.43	0.31	0.48	0.085	0.01	0.071
Benzo(k)fluoranthene	210*	11*	---	0.01	mg/kg	ND<0.008	0.14	ND<0.008	ND<0.008	0.14	0.1	0.15	0.03	ND<0.008	0.02
Chrysene	2100*	110*	---	0.001	mg/kg	0.011	0.29	ND<0.008	0.013	0.17	0.093	0.17	0.038	ND<0.008	0.021
Dibenz(a,h)anthracene	2.1*	0.11*	---	1	mg/kg	ND<0.008	0.025	ND<0.008	ND<0.008	0.019	0.012	0.021	ND<0.008	ND<0.008	ND<0.008
Indeno(1,2,3-cd)pyrene	21*	1.1*	---	0.1	mg/kg	ND<0.008	0.079	ND<0.008	0.01	0.21	0.17	0.22	0.035	ND<0.008	0.035
Analyte	Non Res	Res	Urb. Bkrnd	TEF	Units										
BaP TEQ	1.54	0.07	0.58	---	mg/kg	0.016	0.39	0.015	0.02	0.38	0.26	0.42	0.0722	0.01	0.05182

* EPA RSL value is used for comparison to soil results as no VSS is available

Table 3- Soil Metals Analytical Results
Burlington Greenway Rehabilitation - Phase 3B
Last Revised: April 16, 2020

Sample ID: Sample Depth (ft): Sample Date:				Comp23,24,25,26 0-1 03/25/20	Comp27,28,29,30 0-1 03/25/20	Comp31,32,33,34 0-1 03/25/20	Comp35,36,37,38 0-1 03/25/20	Comp39,40 0-3 03/26/20	Comp41,42,43 0-1 03/26/20	Comp44,45,46,47 0-1 03/26/20
Analyte	Screening Level		Units							
	Non Res	Res								
Arsenic	16	16	mg/kg	3.8	3.8	3.2	4.2	4.4	5.2	4
Barium	127382	11247	mg/kg	24	14	14	19	39	68	32
Cadmium	87	6.9	mg/kg	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Chromium	360223	40223	mg/kg	13	12	8.8	18	19	29	18
Lead	800	400	mg/kg	5.7	4.2	4.8	10	9.8	9.6	7.1
Selenium	4900	366	mg/kg	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Silver	2483	237	mg/kg	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Mercury	3.1	3.1	mg/kg	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1

Table 3- Soil Metals Analytical Results
Burlington Greenway Rehabilitation - Phase 3B
Last Revised: April 16, 2020

Sample ID: Sample Depth (ft): Sample Date:				Comp48,49,50,51 0-1 03/26/20	SB-51 5-7 03/26/20	Comp52,53,54,55 0-1 03/26/20	Comp56,57,58,59 0-1 03/26/20	Comp60,61,62,63 0-1 03/26/20	Comp64,65,66,67 0-1.5 03/26/20	Comp68,69,70,71 0-1.5 03/26/20	Comp72,73,74,75 0-1.5 03/25/20
Analyte	Screening Level		Units								
	Non Res	Res									
Arsenic	16	16	mg/kg	5.5	3.6	4.8	2.7	4.3	5	7.8	3.1
Barium	127382	11247	mg/kg	59	18	80	61	44	100	110	50
Cadmium	87	6.9	mg/kg	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Chromium	360223	40223	mg/kg	27	14	22	15	17	29	29	15
Lead	800	400	mg/kg	12	11	26	17	14	22	240	8.8
Selenium	4900	366	mg/kg	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Silver	2483	237	mg/kg	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Mercury	3.1	3.1	mg/kg	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	0.15	ND<0.1

Table 4 - Soil PCB Analytical Results
Burlington Greenway Rehabilitation - Phase 3B
Last Revised: April 16, 2020

Sample ID: Sample Depth (ft): Sample Date:				Comp23,24,25,26 0-1 03/25/20	Comp27,28,29,30 0-1 03/25/20	Comp31,32,33,34 0-1 03/25/20	Comp35,36,37,38 0-1 03/25/20	Comp39,40 0-3 03/26/20	Comp41,42,43 0-1 03/26/20	Comp44,45,46,47 0-1 03/26/20
Analyte	Screening Level		Units							
	Non Res	Res								
Aroclor 1016	27*	4.1*	mg/kg	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Aroclor 1221	0.83*	0.2*	mg/kg	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Aroclor 1232	0.72*	0.17*	mg/kg	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Aroclor 1242	0.95*	0.23*	mg/kg	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Aroclor 1248	0.94*	0.23*	mg/kg	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Aroclor 1254	0.97*	0.24*	mg/kg	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Aroclor 1260	0.99*	0.24*	mg/kg	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Aroclor 1262	---	---	mg/kg	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Aroclor 1268	---	---	mg/kg	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Total PCBs	0.68	0.114	mg/kg	--	--	--	--	--	--	--

* EPA RSL value is used for comparison to soil results as no VSS is available

Table 4 - Soil PCB Analytical Results
Burlington Greenway Rehabilitation - Phase 3B
Last Revised: April 16, 2020

Sample ID: Sample Depth (ft): Sample Date:				Comp48,49,50,51 0-1 03/26/20	SB-51 5-7 03/26/20	Comp52,53,54,55 0-1 03/26/20	Comp56,57,58,59 0-1 03/26/20	Comp60,61,62,63 0-1 03/26/20	Comp64,65,66,67 0-1.5 03/26/20	Comp68,69,70,71 0-1.5 03/26/20	Comp72,73,74,75 0-1.5 03/25/20
Analyte	Screening Level		Units								
	Non Res	Res									
Aroclor 1016	27*	4.1*	mg/kg	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Aroclor 1221	0.83*	0.2*	mg/kg	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Aroclor 1232	0.72*	0.17*	mg/kg	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Aroclor 1242	0.95*	0.23*	mg/kg	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Aroclor 1248	0.94*	0.23*	mg/kg	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Aroclor 1254	0.97*	0.24*	mg/kg	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Aroclor 1260	0.99*	0.24*	mg/kg	ND<0.02	ND<0.02	0.022	ND<0.02	0.023	ND<0.02	ND<0.02	ND<0.02
Aroclor 1262	---	---	mg/kg	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Aroclor 1268	---	---	mg/kg	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Total PCBs	0.68	0.114	mg/kg	--	--	0.022	--	0.023	--	--	--

* EPA RSL value is used for comparison to soil results as no VSS is available

Table 5 - Soil Pesticide Analytical Results
Burlington Greenway Rehabilitation - Phase 3B
Last Revised: April 16, 2020

Sample ID: Sample Depth (ft): Sample Date:				Comp23,24,25,26 0-1 03/25/20	Comp27,28,29,30 0-1 03/25/20	Comp31,32,33,34 0-1 03/25/20	Comp35,36,37,38 0-1 03/25/20	Comp39,40 0-3 03/26/20	Comp41,42,43 0-1 03/26/20	Comp44,45,46,47 0-1 03/26/20
Analyte	Screening Level		Units							
	Non Res	Res								
4,4' -DDD	9.6*	1.9*	mg/kg	ND<0.0073	ND<0.0071	ND<0.0078	ND<0.0071	ND<0.0084	ND<0.0085	ND<0.0093
4,4' -DDE	9.3*	2*	mg/kg	ND<0.0073	ND<0.0071	ND<0.0078	ND<0.0071	ND<0.0084	ND<0.0085	ND<0.0093
4,4' -DDT	8.5*	1.9*	mg/kg	ND<0.0073	ND<0.0071	ND<0.0078	ND<0.0071	ND<0.0084	ND<0.0085	ND<0.0093
a-BHC	0.36*	0.086*	mg/kg	ND<0.0073	ND<0.0071	ND<0.0078	ND<0.0071	ND<0.0084	ND<0.0085	ND<0.0093
Alachlor	718	61	mg/kg	ND<0.0073	ND<0.0071	ND<0.0078	ND<0.0071	ND<0.0084	ND<0.0085	ND<0.0093
Aldrin	0.1	0.02	mg/kg	ND<0.0037	ND<0.0036	ND<0.0039	ND<0.0036	ND<0.0042	ND<0.0042	ND<0.0046
b-BHC	1.3*	0.3*	mg/kg	ND<0.0073	ND<0.0071	ND<0.0078	ND<0.0071	ND<0.0084	ND<0.0085	ND<0.0093
Chlordane	---	---	mg/kg	ND<0.037	ND<0.036	ND<0.039	ND<0.036	ND<0.042	ND<0.042	ND<0.046
d-BHC	---	---	mg/kg	ND<0.0073	ND<0.0071	ND<0.0078	ND<0.0071	ND<0.0084	ND<0.0085	ND<0.0093
Dieldrin	0.14*	0.034*	mg/kg	ND<0.0037	ND<0.0036	ND<0.0039	ND<0.0036	ND<0.0042	ND<0.0042	ND<0.0046
Endosulfan I	---	---	mg/kg	ND<0.0073	ND<0.0071	ND<0.0078	ND<0.0071	ND<0.0084	ND<0.0085	ND<0.0093
Endosulfan II	---	---	mg/kg	ND<0.0073	ND<0.0071	ND<0.0078	ND<0.0071	ND<0.0084	ND<0.0085	ND<0.0093
Endosulfan sulfate	4900*	380*	mg/kg	ND<0.0073	ND<0.0071	ND<0.0078	ND<0.0071	ND<0.0084	ND<0.0085	ND<0.0093
Endrin	250*	19*	mg/kg	ND<0.0073	ND<0.0071	ND<0.0078	ND<0.0071	ND<0.0084	ND<0.0085	ND<0.0093
Endrin aldehyde	---	---	mg/kg	ND<0.0073	ND<0.0071	ND<0.0078	ND<0.0071	ND<0.0084	ND<0.0085	ND<0.0093
Endrin ketone	---	---	mg/kg	ND<0.0073	ND<0.0071	ND<0.0078	ND<0.0071	ND<0.0084	ND<0.0085	ND<0.0093
g-BHC	2.5*	0.57*	mg/kg	ND<0.0015	ND<0.0014	ND<0.0016	ND<0.0014	ND<0.0017	ND<0.0017	ND<0.0019
Heptachlor	0.63*	0.13*	mg/kg	ND<0.0073	ND<0.0071	ND<0.0078	ND<0.0071	ND<0.0084	ND<0.0085	ND<0.0093
Heptachlor epoxide	0.33*	0.07*	mg/kg	ND<0.0073	ND<0.0071	ND<0.0078	ND<0.0071	ND<0.0084	ND<0.0085	ND<0.0093
Methoxychlor	4100*	320*	mg/kg	ND<0.037	ND<0.036	ND<0.039	ND<0.036	ND<0.042	ND<0.042	ND<0.046
Toxaphene	2.1*	0.49*	mg/kg	ND<0.15	ND<0.14	ND<0.16	ND<0.14	ND<0.17	ND<0.17	ND<0.19

* EPA RSL value is used for comparison to soil results as no
VSS is available

Table 5 - Soil Pesticide Analytical Results
Burlington Greenway Rehabilitation - Phase 3B
Last Revised: April 16, 2020

Sample ID: Sample Depth (ft): Sample Date:			Comp48,49,50,51 0-1 03/26/20	SB-51 5-7 03/26/20	Comp52,53,54,55 0-1 03/26/20	Comp56,57,58,59 0-1 03/26/20	Comp60,61,62, 0-1 03/26/20	Comp64,65,66,67 0-1.5 03/26/20	Comp68,69,70,71 0-1.5 03/26/20	Comp72,73,74,75 0-1.5 03/25/20
Analyte	Screening Level		Units							
	Non Res	Res								
4,4' -DDD	9.6*	1.9*	mg/kg	ND<0.008	ND<0.006	ND<0.0075	ND<0.0071	ND<0.0075	ND<0.0074	ND<0.0078
4,4' -DDE	9.3*	2*	mg/kg	ND<0.008	ND<0.006	ND<0.0075	ND<0.0071	0.019	ND<0.0074	ND<0.0078
4,4' -DDT	8.5*	1.9*	mg/kg	ND<0.008	ND<0.006	ND<0.0075	ND<0.014	0.057	ND<0.0074	ND<0.0078
a-BHC	0.36*	0.086*	mg/kg	ND<0.008	ND<0.006	ND<0.0075	ND<0.0071	ND<0.0075	ND<0.0074	ND<0.0078
Alachlor	718	61	mg/kg	ND<0.008	Not Analyzed	ND<0.0075	ND<0.0071	ND<0.0075	ND<0.0074	ND<0.0078
Aldrin	0.1	0.02	mg/kg	ND<0.004	ND<0.006	ND<0.0037	ND<0.0036	ND<0.0038	ND<0.0037	ND<0.0039
b-BHC	1.3*	0.3*	mg/kg	ND<0.008	ND<0.006	ND<0.0075	ND<0.0071	ND<0.0075	ND<0.0074	ND<0.0078
Chlordane	---	---	mg/kg	ND<0.04	ND<0.02	ND<0.037	ND<0.036	ND<0.038	ND<0.037	ND<0.039
d-BHC	---	---	mg/kg	ND<0.008	ND<0.006	ND<0.0075	ND<0.0071	ND<0.0075	ND<0.0074	ND<0.0078
Dieldrin	0.14*	0.034*	mg/kg	ND<0.004	ND<0.006	ND<0.0037	ND<0.0036	ND<0.0038	ND<0.0037	ND<0.0039
Endosulfan I	---	---	mg/kg	ND<0.008	ND<0.006	ND<0.0075	ND<0.0071	ND<0.0075	ND<0.0074	ND<0.0078
Endosulfan II	---	---	mg/kg	ND<0.008	ND<0.006	ND<0.0075	ND<0.0071	ND<0.0075	ND<0.0074	ND<0.0078
Endosulfan sulfate	4900*	380*	mg/kg	ND<0.008	ND<0.006	ND<0.0075	ND<0.0071	ND<0.0075	ND<0.0074	ND<0.0078
Endrin	250*	19*	mg/kg	ND<0.008	ND<0.006	ND<0.0075	ND<0.0071	ND<0.0075	ND<0.0074	ND<0.0078
Endrin aldehyde	---	---	mg/kg	ND<0.008	ND<0.006	ND<0.0075	ND<0.0071	ND<0.0075	ND<0.0074	ND<0.0078
Endrin ketone	---	---	mg/kg	ND<0.008	ND<0.006	ND<0.0075	ND<0.0071	ND<0.0075	ND<0.0074	ND<0.0078
g-BHC	2.5*	0.57*	mg/kg	ND<0.0016	ND<0.006	ND<0.0015	ND<0.0014	ND<0.0015	ND<0.0015	ND<0.0016
Heptachlor	0.63*	0.13*	mg/kg	ND<0.008	ND<0.006	ND<0.0075	ND<0.0071	ND<0.0075	ND<0.0074	ND<0.0078
Heptachlor epoxide	0.33*	0.07*	mg/kg	ND<0.008	ND<0.006	ND<0.0075	ND<0.0071	ND<0.0075	ND<0.0074	ND<0.0078
Methoxychlor	4100*	320*	mg/kg	ND<0.04	ND<0.006	ND<0.037	ND<0.036	ND<0.038	ND<0.037	ND<0.039
Toxaphene	2.1*	0.49*	mg/kg	ND<0.16	ND<0.06	ND<0.15	ND<0.14	ND<0.15	ND<0.15	ND<0.16

* EPA RSL value is used for comparison to soil results as no VSS is available

Table 6 - Soil Herbicide Analytical Results

Burlington Greenway Rehabilitation - Phase 3B

Last Revised: April 16, 2020

Sample ID: Sample Depth (ft): Sample Date:			Comp23,24,25,26 0-1 03/25/20	Comp27,28,29,30 0-1 03/25/20	Comp31,32,33,34 0-1 03/25/20	Comp35,36,37,38 0-1 03/25/20	Comp39,40 0-3 03/26/20	Comp41,42,43 0-1 03/26/20	Comp44,45,46,47 0-1 03/26/20
Analyte	Screening Level		Units						
	Non Res	Res							
2,4,5-T	8200*	630*	mg/kg	ND<0.092	ND<0.09	ND<0.1	ND<0.09	ND<0.11	ND<0.12
2,4,5-TP (Silvex)	6600*	510*	mg/kg	ND<0.092	ND<0.09	ND<0.1	ND<0.09	ND<0.11	ND<0.12
2,4-D	9600*	700*	mg/kg	ND<0.18	ND<0.18	ND<0.2	ND<0.18	ND<0.21	ND<0.23
2,4-DB	25000*	1900*	mg/kg	ND<0.92	ND<0.9	ND<1	ND<0.9	ND<1.1	ND<1.2
Dalapon	25000*	1900*	mg/kg	ND<0.092	ND<0.09	ND<0.1	ND<0.09	ND<0.11	ND<0.12
Dicamba	25000*	1900*	mg/kg	ND<0.092	ND<0.09	ND<0.1	ND<0.09	ND<0.11	ND<0.12
Dichloroprop	---	---	mg/kg	ND<0.14	ND<0.14	ND<0.15	ND<0.13	ND<0.16	ND<0.17
Dinoseb	820*	63*	mg/kg	ND<0.092	ND<0.09	ND<0.1	ND<0.09	ND<0.11	ND<0.12
MCPA	410*	32*	mg/kg	ND<28	ND<27	ND<30	ND<27	ND<32	ND<35
MCPP	---	---	mg/kg	ND<28	ND<27	ND<30	ND<27	ND<32	ND<35

* EPA RSL value is used for comparison to soil results as no VSS is available

Table 6 - Soil Herbicide Analytical Results
Burlington Greenway Rehabilitation - Phase 3B
Last Revised: April 16, 2020

Sample ID: Sample Depth (ft): Sample Date:				Comp48,49,50,51 0-1 03/26/20	SB-51 5-7 03/26/20	Comp52,53,54,55 0-1 03/26/20	Comp56,57,58,59 0-1 03/26/20	Comp60,61,62,63 0-1 03/26/20	Comp64,65,66,67 0-1.5 03/26/20	Comp68,69,70,71 0-1.5 03/26/20	Comp72,73,74,75 0-1.5 03/25/20
Analyte	Screening Level		Units								
	Non Res	Res									
2,4,5-T	8200*	630*	mg/kg	ND < 0.1	ND < 0.094	ND < 0.094	ND < 0.09	ND < 0.096	ND < 0.094	ND < 0.098	ND < 0.094
2,4,5-TP (Silvex)	6600*	510*	mg/kg	ND < 0.1	ND < 0.094	ND < 0.094	ND < 0.09	ND < 0.096	ND < 0.094	ND < 0.098	ND < 0.094
2,4-D	9600*	700*	mg/kg	ND < 0.2	ND < 0.19	ND < 0.19	ND < 0.18	ND < 0.19	ND < 0.19	ND < 0.2	ND < 0.19
2,4-DB	25000*	1900*	mg/kg	ND < 1	ND < 0.94	ND < 0.94	ND < 0.9	ND < 0.96	ND < 0.94	ND < 0.98	ND < 0.94
Dalapon	25000*	1900*	mg/kg	ND < 0.1	ND < 0.094	ND < 0.094	ND < 0.09	ND < 0.096	ND < 0.094	ND < 0.098	ND < 0.094
Dicamba	25000*	1900*	mg/kg	ND < 0.1	ND < 0.094	ND < 0.094	ND < 0.09	ND < 0.096	ND < 0.094	ND < 0.098	ND < 0.094
Dichloroprop	---	---	mg/kg	ND < 0.15	ND < 0.14	ND < 0.14	ND < 0.14	ND < 0.14	ND < 0.14	ND < 0.15	ND < 0.14
Dinoseb	820*	63*	mg/kg	ND < 0.1	ND < 0.094	ND < 0.094	ND < 0.09	ND < 0.096	ND < 0.094	ND < 0.098	ND < 0.094
MCPA	410*	32*	mg/kg	ND < 30	ND < 28	ND < 28	ND < 27	ND < 29	ND < 28	ND < 29	ND < 28
MCPP	---	---	mg/kg	ND < 30	ND < 28	ND < 28	ND < 27	ND < 29	ND < 28	ND < 29	ND < 28

* EPA RSL value is used for comparison to soil results as no
VSS is available

Table 7 - Soil Waste Characterization Analytical Results

Burlington Greenway Rehabilitation - Phase 3B

Last Revised: April 16, 2020

Sample ID: Sample Depth (ft): Sample Date:				Comp23,24,25,26 0-1 03/25/20	Comp27,28,29,30 0-1 03/25/20	Comp31,32,33,34 0-1 03/25/20	Comp35,36,37,38 0-1 03/25/20	Comp39,40 0-3 03/26/20	Comp41,42,43 0-1 03/26/20	Comp44,45,46,47 0-1 03/26/20	Comp48,49,50,51 0-1 03/26/20	SB-51 5-7 03/26/20
Analyte	Screening Level		Units									
	Non Res	Res										
TPH (Gasoline Range C6-C12)	420	82	mg/kg	ND <2	ND <2	ND <2	ND <2	3.5	ND <2	ND <2	ND <2	ND <2
TPH (Diesel Range C10-C28)	440	96	mg/kg	12	ND <7	ND <7	30	18	ND <8	14	ND <8	12
Reactive Cyanide	Not Applicable		mg/kg	ND <1	ND <1	ND <1	ND <1	ND <1	ND <1	ND <1	ND <1	ND <1
Reactive Sulfide			mg/kg	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10
Corrosivity / pH			SU	7.92	7.95	7.78	7.73	7.28	7.18	7.23	7.11	7.73
Ignitability			none	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

Table 7 - Soil Waste Characterization Analytical Result:
Burlington Greenway Rehabilitation - Phase 3B
Last Revised: April 16, 2020

Sample ID: Sample Depth (ft): Sample Date:				Comp52,53,54,55 0-1 03/26/20	Comp56,57,58,59 0-1 03/26/20	Comp60,61,62,63 0-1 03/26/20	Comp64,65,66,67 0-1.5 03/26/20	Comp68,69,70,71 0-1.5 03/26/20	Comp72,73,74,75 0-1.5 03/25/20	TripBlank-1 03/25/20	TripBlank-2 03/25/20
Analyte	Screening Level		Units	NA	NA	NA	NA	NA	NA	NA	NA
	Non Res	Res									
TPH (Gasoline Range C6-C12)	420	82	mg/kg								
TPH (Diesel Range C10-C28)	440	96	mg/kg								
Reactive Cyanide	Not Applicable		mg/kg								
Reactive Sulfide			mg/kg								
Corrosivity / pH			SU								
Ignitability			none								
			Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

Minor CAP Amendment: Burlington Greenway Rehabilitation - Phase 3
April 24, 2020



ATTACHMENT D

LABORATORY ANALYTICAL REPORTS



Eastern Analytical, Inc.

professional laboratory and drilling services

J. Kurt Muller

Vanasse Hangen Brustlin, Inc. (VHB)

40 IDX Drive Building 100

South Burlington, VT 05403

Subject: Laboratory Report

Eastern Analytical, Inc. ID: 208295

Client Identification: BBP-3B | 58369.00

Date Received: 3/27/2020



Report revision/reissue: Revision, replaces report dated 4/6/2020

Revision information: Per client request, the ABN report has been amended.

Dear Mr. Muller :

Enclosed please find the laboratory report for the above identified project. All analyses were performed in accordance with our QA/QC Program. Unless otherwise stated, holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol. Samples which were collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures. Eastern Analytical, Inc. certifies that the enclosed test results meet all requirements of NELAP and other applicable state certifications. Please refer to our website at www.eailabs.com for a copy of our NELAP certificate and accredited parameters.

The following standard abbreviations and conventions apply to all EAI reports:

Solid samples are reported on a dry weight basis, unless otherwise noted

< : "less than" followed by the reporting limit

> : "greater than" followed by the reporting limit

%R : % Recovery

Eastern Analytical Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269) and Vermont (VT1012).

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the the written approval of the laboratory.

If you have any questions regarding the results contained within, please feel free to directly contact me or the chemist(s) who performed the testing in question. Unless otherwise requested, we will dispose of the sample(s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,



Lorraine Olashaw, Lab Director

4.10.20

Date

101

of pages (excluding cover letter)



SAMPLE CONDITIONS PAGE

EAI ID#: 208295

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Temperature upon receipt (°C): **2.1**

Received on ice or cold packs (Yes/No): **Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date	Date	Sample	% Dry	Exceptions/Comments (other than thermal preservation)
		Received	Sampled	Matrix	Weight	
208295.01	Comp 23,24,25,26 (0-1)	3/27/20	3/25/20	soil	87.9	Adheres to Sample Acceptance Policy
208295.02	Comp 27,28,29,30 (0-1)	3/27/20	3/25/20	soil	89.6	Adheres to Sample Acceptance Policy
208295.03	Comp 31,32,33,34 (0-1)	3/27/20	3/25/20	soil	91.8	Adheres to Sample Acceptance Policy
208295.04	Comp 35,36,37,38 (0-1)	3/27/20	3/25/20	soil	90.5	Adheres to Sample Acceptance Policy
208295.05	Comp 72,73,74,75 (0-1.5)	3/27/20	3/25/20	soil	85.0	Adheres to Sample Acceptance Policy
208295.06	Comp 68,69,70,71 (0-1.5)	3/27/20	3/26/20	soil	81.8	Adheres to Sample Acceptance Policy
208295.07	Comp 60,61,62,63 (0-1)	3/27/20	3/26/20	soil	88.2	Adheres to Sample Acceptance Policy
208295.08	Comp 64,65,66,67 (0-1.5)	3/27/20	3/26/20	soil	85.6	Adheres to Sample Acceptance Policy
208295.09	Comp 56,57,58,59 (0-1)	3/27/20	3/26/20	soil	88.4	Adheres to Sample Acceptance Policy
208295.1	Comp 52,53,54,55 (0-1)	3/27/20	3/26/20	soil	84.2	Adheres to Sample Acceptance Policy
208295.11	Comp 48,49,50,51 (0-1)	3/27/20	3/26/20	soil	82.7	Adheres to Sample Acceptance Policy
208295.12	Comp 44,45,46,47 (0-1)	3/27/20	3/26/20	soil	88.2	Adheres to Sample Acceptance Policy
208295.13	Comp 41,42,43 (0-1)	3/27/20	3/26/20	soil	82.1	Adheres to Sample Acceptance Policy
208295.14	Comp 39,40 (0-3)	3/27/20	3/26/20	soil	82.9	Adheres to Sample Acceptance Policy
208295.15	Trip Blank - 1	3/27/20	3/25/20	soil	100.0	Adheres to Sample Acceptance Policy
208295.16	Trip Blank - 2	3/27/20	3/25/20	soil	100.0	Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitability, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.

Immediate analyses, pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite, performed at the laboratory were run outside of the recommended 15 minute hold time.

All results contained in this report relate only to the above listed samples.

References include:

1) EPA 600/4-79-020, 1983

2) Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd Edition or noted Revision year.

3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB

4) Hach Water Analysis Handbook, 4th edition, 1992



LABORATORY REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Sample ID:	Comp 23,24,25,26 (0-1)	Comp 27,28,29,30 (0-1)	Comp 31,32,33,34 (0-1)	Comp 35,36,37,38 (0-1)	Comp 72,73,74,75 (0-1.5)	Comp 68,69,70,71 (0-1.5)	Comp 60,61,62,63 (0-1)
Lab Sample ID:	208295.01	208295.02	208295.03	208295.04	208295.05	208295.06	208295.07
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	3/25/20	3/25/20	3/25/20	3/25/20	3/25/20	3/26/20	3/26/20
Date Received:	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Analysis:	4/1/20	4/1/20	4/1/20	4/1/20	4/1/20	4/1/20	4/1/20
Analyst:	DGM	DGM	DGM	DGM	DGM	DGM	DGM
Method:	8260C	8260C	8260C	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1	1	1	1
Dichlorodifluoromethane	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chloromethane	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Vinyl chloride	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Bromomethane	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chloroethane	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Trichlorofluoromethane	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Diethyl Ether	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acetone	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Methylene chloride	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Carbon disulfide	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Methyl-t-butyl ether(MTBE)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,2-Dichloroethene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1-Dichloroethane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,2-Dichloropropane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
cis-1,2-Dichloroethene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Butanone(MEK)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Tetrahydrofuran(THF)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1,1-Trichloroethane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Carbon tetrachloride	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1-Dichloropropene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichloroethane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Trichloroethene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichloropropane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibromomethane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bromodichloromethane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Methyl-2-pentanone(MIBK)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,3-Dichloropropene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Toluene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
trans-1,3-Dichloropropene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1,2-Trichloroethane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Hexanone	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tetrachloroethene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,3-Dichloropropane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibromochloromethane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Chlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1,1,2-Tetrachloroethane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ethylbenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
mp-Xylene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
o-Xylene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Styrene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bromoform	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
IsoPropylbenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05



LABORATORY REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Sample ID:	Comp 23,24,25,26 (0-1)	Comp 27,28,29,30 (0-1)	Comp 31,32,33,34 (0-1)	Comp 35,36,37,38 (0-1)	Comp 72,73,74,75 (0-1.5)	Comp 68,69,70,71 (0-1.5)	Comp 60,61,62,63 (0-1)
Lab Sample ID:	208295.01	208295.02	208295.03	208295.04	208295.05	208295.06	208295.07
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	3/25/20	3/25/20	3/25/20	3/25/20	3/25/20	3/26/20	3/26/20
Date Received:	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Analysis:	4/1/20	4/1/20	4/1/20	4/1/20	4/1/20	4/1/20	4/1/20
Analyst:	DGM	DGM	DGM	DGM	DGM	DGM	DGM
Method:	8260C	8260C	8260C	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1	1	1	1
Bromobenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1,2,2-Tetrachloroethane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2,3-Trichloropropane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
n-Propylbenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Chlorotoluene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chlorotoluene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,3,5-Trimethylbenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
tert-Butylbenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trimethylbenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
sec-Butylbenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,3-Dichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
p-Isopropyltoluene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,4-Dichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
n-Butylbenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dibromo-3-chloropropane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobutadiene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2,3-Trichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Bromofluorobenzene (surr)	85 %R	86 %R	87 %R	87 %R	85 %R	87 %R	87 %R
1,2-Dichlorobenzene-d4 (surr)	106 %R	101 %R	105 %R	106 %R	108 %R	106 %R	104 %R
Toluene-d8 (surr)	98 %R	100 %R	99 %R	99 %R	100 %R	99 %R	97 %R
1,2-Dichloroethane-d4 (surr)	99 %R	99 %R	99 %R	99 %R	99 %R	100 %R	100 %R

The following analytes were assessed down to the listed concentrations, 1,2-Dibromo-3-Chloropropane (0.0053mg/kg), 1,2,3-Trichloropropane (0.00311mg/kg). Detectable analytes are reported as J flags and should be considered estimated values.



LABORATORY REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Sample ID:	Comp 64,65,66,67 (0-1.5)	Comp 56,57,58,59 (0-1)	Comp 52,53,54,55 (0-1)	Comp 48,49,50,51 (0-1)	Comp 44,45,46,47 (0-1)	Comp 41,42,43 (0-1)	Comp 39,40 (0-3)
Lab Sample ID:	208295.08	208295.09	208295.1	208295.11	208295.12	208295.13	208295.14
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	3/26/20	3/26/20	3/26/20	3/26/20	3/26/20	3/26/20	3/26/20
Date Received:	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Analysis:	3/31/20	4/1/20	4/1/20	4/1/20	4/1/20	4/1/20	4/1/20
Analyst:	DGM	DGM	DGM	DGM	DGM	DGM	DGM
Method:	8260C	8260C	8260C	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1	1	1	1
Dichlorodifluoromethane	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chloromethane	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Vinyl chloride	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Bromomethane	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chloroethane	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Trichlorofluoromethane	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Diethyl Ether	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acetone	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Methylene chloride	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Carbon disulfide	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Methyl-t-butyl ether(MTBE)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,2-Dichloroethene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1-Dichloroethane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,2-Dichloropropane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
cis-1,2-Dichloroethene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Butanone(MEK)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Tetrahydrofuran(THF)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1,1-Trichloroethane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Carbon tetrachloride	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1-Dichloropropene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichloroethane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Trichloroethene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichloropropane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibromomethane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bromodichloromethane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Methyl-2-pentanone(MIBK)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,3-Dichloropropene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Toluene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
trans-1,3-Dichloropropene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1,2-Trichloroethane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Hexanone	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tetrachloroethene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,3-Dichloropropane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibromochloromethane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Chlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1,1,2-Tetrachloroethane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ethylbenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
mp-Xylene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
o-Xylene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Styrene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bromoform	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
IsoPropylbenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05



LABORATORY REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Sample ID:	Comp 64,65,66,67 (0-1.5)	Comp 56,57,58,59 (0-1)	Comp 52,53,54,55 (0-1)	Comp 48,49,50,51 (0-1)	Comp 44,45,46,47 (0-1)	Comp 41,42,43 (0-1)	Comp 39,40 (0-3)
Lab Sample ID:	208295.08	208295.09	208295.1	208295.11	208295.12	208295.13	208295.14
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	3/26/20	3/26/20	3/26/20	3/26/20	3/26/20	3/26/20	3/26/20
Date Received:	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Analysis:	3/31/20	4/1/20	4/1/20	4/1/20	4/1/20	4/1/20	4/1/20
Analyst:	DGM	DGM	DGM	DGM	DGM	DGM	DGM
Method:	8260C	8260C	8260C	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1	1	1	1
Bromobenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1,2,2-Tetrachloroethane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2,3-Trichloropropane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
n-Propylbenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Chlorotoluene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chlorotoluene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,3,5-Trimethylbenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
tert-Butylbenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trimethylbenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
sec-Butylbenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,3-Dichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
p-Isopropyltoluene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,4-Dichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
n-Butylbenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dibromo-3-chloropropane	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobutadiene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2,3-Trichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Bromofluorobenzene (surr)	80 %R	84 %R	85 %R	87 %R	86 %R	87 %R	103 %R
1,2-Dichlorobenzene-d4 (surr)	104 %R	107 %R	108 %R	105 %R	105 %R	106 %R	99 %R
Toluene-d8 (surr)	100 %R	99 %R	101 %R	99 %R	99 %R	99 %R	97 %R
1,2-Dichloroethane-d4 (surr)	97 %R	99 %R	100 %R	99 %R	99 %R	100 %R	100 %R

The following analytes were assessed down to the listed concentrations, 1,2-Dibromo-3-Chloropropane (0.0053mg/kg), 1,2,3-Trichloropropane (0.00311mg/kg). Detectable analytes are reported as J flags and should be considered estimated values.



LABORATORY REPORT

EAI ID#: 208295

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Sample ID: Trip Blank - 1 Trip Blank - 2

Lab Sample ID:	208295.15	208295.16
Matrix:	soil	soil
Date Sampled:	3/25/20	3/25/20
Date Received:	3/27/20	3/27/20
Units:	mg/kg	mg/kg
Date of Analysis:	4/1/20	4/1/20
Analyst:	DGM	DGM
Method:	8260C	8260C
Dilution Factor:	1	1

Dichlorodifluoromethane	< 0.1	< 0.1
Chloromethane	< 0.1	< 0.1
Vinyl chloride	< 0.02	< 0.02
Bromomethane	< 0.1	< 0.1
Chloroethane	< 0.1	< 0.1
Trichlorofluoromethane	< 0.1	< 0.1
Diethyl Ether	< 0.05	< 0.05
Acetone	< 2	< 2
1,1-Dichloroethene	< 0.05	< 0.05
Methylene chloride	< 0.1	< 0.1
Carbon disulfide	< 0.1	< 0.1
Methyl-t-butyl ether(MTBE)	< 0.1	< 0.1
trans-1,2-Dichloroethene	< 0.05	< 0.05
1,1-Dichloroethane	< 0.05	< 0.05
2,2-Dichloropropane	< 0.05	< 0.05
cis-1,2-Dichloroethene	< 0.05	< 0.05
2-Butanone(MEK)	< 0.5	< 0.5
Bromochloromethane	< 0.05	< 0.05
Tetrahydrofuran(THF)	< 0.5	< 0.5
Chloroform	< 0.05	< 0.05
1,1,1-Trichloroethane	< 0.05	< 0.05
Carbon tetrachloride	< 0.05	< 0.05
1,1-Dichloropropene	< 0.05	< 0.05
Benzene	< 0.05	< 0.05
1,2-Dichloroethane	< 0.05	< 0.05
Trichloroethene	< 0.05	< 0.05
1,2-Dichloropropane	< 0.05	< 0.05
Dibromomethane	< 0.05	< 0.05
Bromodichloromethane	< 0.05	< 0.05
4-Methyl-2-pentanone(MIBK)	< 0.5	< 0.5
cis-1,3-Dichloropropene	< 0.05	< 0.05
Toluene	< 0.05	< 0.05
trans-1,3-Dichloropropene	< 0.05	< 0.05
1,1,2-Trichloroethane	< 0.05	< 0.05
2-Hexanone	< 0.1	< 0.1
Tetrachloroethene	< 0.05	< 0.05
1,3-Dichloropropane	< 0.05	< 0.05
Dibromochloromethane	< 0.05	< 0.05
1,2-Dibromoethane(EDB)	< 0.02	< 0.02
Chlorobenzene	< 0.05	< 0.05
1,1,1,2-Tetrachloroethane	< 0.05	< 0.05
Ethylbenzene	< 0.05	< 0.05
mp-Xylene	< 0.05	< 0.05
o-Xylene	< 0.05	< 0.05
Styrene	< 0.05	< 0.05
Bromoform	< 0.05	< 0.05
IsoPropylbenzene	< 0.05	< 0.05



LABORATORY REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Sample ID: Trip Blank - 1 Trip Blank - 2

Lab Sample ID:	208295.15	208295.16
Matrix:	soil	soil
Date Sampled:	3/25/20	3/25/20
Date Received:	3/27/20	3/27/20
Units:	mg/kg	mg/kg
Date of Analysis:	4/1/20	4/1/20
Analyst:	DGM	DGM
Method:	8260C	8260C
Dilution Factor:	1	1
Bromobenzene	< 0.05	< 0.05
1,1,2,2-Tetrachloroethane	< 0.05	< 0.05
1,2,3-Trichloropropane	< 0.05	< 0.05
n-Propylbenzene	< 0.05	< 0.05
2-Chlorotoluene	< 0.05	< 0.05
4-Chlorotoluene	< 0.05	< 0.05
1,3,5-Trimethylbenzene	< 0.05	< 0.05
tert-Butylbenzene	< 0.05	< 0.05
1,2,4-Trimethylbenzene	< 0.05	< 0.05
sec-Butylbenzene	< 0.05	< 0.05
1,3-Dichlorobenzene	< 0.05	< 0.05
p-Isopropyltoluene	< 0.05	< 0.05
1,4-Dichlorobenzene	< 0.05	< 0.05
1,2-Dichlorobenzene	< 0.05	< 0.05
n-Butylbenzene	< 0.05	< 0.05
1,2-Dibromo-3-chloropropane	< 0.05	< 0.05
1,2,4-Trichlorobenzene	< 0.05	< 0.05
Hexachlorobutadiene	< 0.05	< 0.05
Naphthalene	< 0.1	< 0.1
1,2,3-Trichlorobenzene	< 0.05	< 0.05
4-Bromofluorobenzene (surr)	85 %R	84 %R
1,2-Dichlorobenzene-d4 (surr)	107 %R	107 %R
Toluene-d8 (surr)	100 %R	99 %R
1,2-Dichloroethane-d4 (surr)	99 %R	100 %R

The following analytes were assessed down to the listed concentrations, 1,2-Dibromo-3-Chloropropane (0.0053mg/kg), 1,2,3-Trichloropropane (0.00311mg/kg). Detectable analytes are reported as J flags and should be considered estimated values.



QC REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 0.1	1.2 (117 %R)	1.1 (113 %R) (4 RPD)	3/30/2020	mg/kg	40 - 160	20	8260C
Chloromethane	< 0.1	1.2 (118 %R)	1.2 (117 %R) (0 RPD)	3/30/2020	mg/kg	40 - 160	20	8260C
Vinyl chloride	< 0.02	0.86 (86 %R)	0.84 (84 %R) (2 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
Bromomethane	< 0.1	1.1 (111 %R)	1.0 (104 %R) (6 RPD)	3/30/2020	mg/kg	40 - 160	20	8260C
Chloroethane	< 0.1	0.91 (91 %R)	0.89 (89 %R) (2 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
Trichlorofluoromethane	< 0.1	1.1 (113 %R)	1.1 (113 %R) (0 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
Diethyl Ether	< 0.05	0.97 (97 %R)	0.99 (99 %R) (2 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
Acetone	< 2	< 2 (93 %R)	< 2 (96 %R) (3 RPD)	3/30/2020	mg/kg	40 - 160	20	8260C
1,1-Dichloroethene	< 0.05	1.0 (100 %R)	1.0 (102 %R) (2 RPD)	3/30/2020	mg/kg	59 - 172	20	8260C
Methylene chloride	< 0.1	0.87 (87 %R)	0.90 (90 %R) (3 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
Carbon disulfide	< 0.1	0.96 (96 %R)	0.99 (99 %R) (3 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
Methyl-t-butyl ether(MTBE)	< 0.1	1.0 (101 %R)	1.1 (105 %R) (4 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
trans-1,2-Dichloroethene	< 0.05	1.0 (101 %R)	1.0 (104 %R) (3 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
1,1-Dichloroethane	< 0.05	1.0 (105 %R)	1.1 (108 %R) (3 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
2,2-Dichloropropane	< 0.05	1.3 (126 %R)	1.3 (128 %R) (2 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
cis-1,2-Dichloroethene	< 0.05	1.2 (118 %R)	1.2 (121 %R) (3 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
2-Butanone(MEK)	< 0.5	0.95 (95 %R)	0.98 (98 %R) (4 RPD)	3/30/2020	mg/kg	40 - 160	20	8260C
Bromochloromethane	< 0.05	1.0 (101 %R)	1.0 (104 %R) (3 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
Tetrahydrofuran(THF)	< 0.5	0.80 (80 %R)	0.85 (85 %R) (6 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
Chloroform	< 0.05	1.0 (101 %R)	1.0 (104 %R) (3 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
1,1,1-Trichloroethane	< 0.05	1.1 (115 %R)	1.2 (118 %R) (3 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
Carbon tetrachloride	< 0.05	1.1 (107 %R)	1.1 (110 %R) (3 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
1,1-Dichloropropene	< 0.05	1.2 (119 %R)	1.2 (122 %R) (2 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
Benzene	< 0.05	1.1 (108 %R)	1.1 (111 %R) (2 RPD)	3/30/2020	mg/kg	66 - 142	20	8260C
1,2-Dichloroethane	< 0.05	0.97 (97 %R)	1.0 (100 %R) (3 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
Trichloroethene	< 0.05	1.1 (109 %R)	1.1 (112 %R) (3 RPD)	3/30/2020	mg/kg	62 - 137	20	8260C
1,2-Dichloropropane	< 0.05	1.1 (107 %R)	1.1 (110 %R) (3 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
Dibromomethane	< 0.05	0.93 (93 %R)	0.96 (96 %R) (3 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
Bromodichloromethane	< 0.05	1.0 (103 %R)	1.1 (106 %R) (3 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
4-Methyl-2-pentanone(MIBK)	< 0.5	1.0 (102 %R)	1.1 (106 %R) (4 RPD)	3/30/2020	mg/kg	40 - 160	20	8260C
cis-1,3-Dichloropropene	< 0.05	1.1 (111 %R)	1.1 (113 %R) (2 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
Toluene	< 0.05	1.1 (112 %R)	1.1 (115 %R) (2 RPD)	3/30/2020	mg/kg	59 - 139	20	8260C
trans-1,3-Dichloropropene	< 0.05	1.1 (110 %R)	1.1 (113 %R) (2 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
1,1,2-Trichloroethane	< 0.05	0.99 (99 %R)	1.0 (102 %R) (2 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
2-Hexanone	< 0.1	0.99 (99 %R)	1.0 (103 %R) (4 RPD)	3/30/2020	mg/kg	40 - 160	20	8260C
Tetrachloroethene	< 0.05	1.1 (114 %R)	1.2 (115 %R) (1 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
1,3-Dichloropropane	< 0.05	0.96 (96 %R)	0.98 (98 %R) (2 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
Dibromochloromethane	< 0.05	0.94 (94 %R)	0.97 (97 %R) (2 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
1,2-Dibromoethane(EDB)	< 0.02	1.0 (101 %R)	1.1 (106 %R) (5 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
Chlorobenzene	< 0.05	1.1 (110 %R)	1.1 (113 %R) (2 RPD)	3/30/2020	mg/kg	60 - 133	20	8260C
1,1,1,2-Tetrachloroethane	< 0.05	1.0 (101 %R)	1.0 (103 %R) (2 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
Ethylbenzene	< 0.05	1.3 (126 %R)	1.3 (128 %R) (2 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
mp-Xylene	< 0.05	2.6 (129 %R)	* 2.6 (131 %R) (2 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
o-Xylene	< 0.05	1.2 (122 %R)	1.2 (124 %R) (2 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
Styrene	< 0.05	1.3 (125 %R)	1.3 (127 %R) (2 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
Bromoform	< 0.05	0.87 (87 %R)	0.90 (90 %R) (3 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C



QC REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
IsoPropylbenzene	< 0.05	* 1.4 (144 %R)	* 1.5 (146 %R) (2 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
Bromobenzene	< 0.05	1.1 (106 %R)	1.0 (104 %R) (1 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
1,1,2,2-Tetrachloroethane	< 0.05	1.0 (101 %R)	1.0 (101 %R) (0 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
1,2,3-Trichloropropane	< 0.05	0.98 (98 %R)	0.99 (99 %R) (1 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
n-Propylbenzene	< 0.05	* 1.4 (136 %R)	* 1.3 (133 %R) (2 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
2-Chlorotoluene	< 0.05	1.2 (124 %R)	1.2 (122 %R) (2 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
4-Chlorotoluene	< 0.05	1.2 (119 %R)	1.2 (117 %R) (2 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
1,3,5-Trimethylbenzene	< 0.05	* 1.4 (141 %R)	* 1.4 (139 %R) (2 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
tert-Butylbenzene	< 0.05	* 1.3 (131 %R)	1.3 (129 %R) (1 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
1,2,4-Trimethylbenzene	< 0.05	* 1.4 (141 %R)	* 1.4 (139 %R) (2 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
sec-Butylbenzene	< 0.05	* 1.4 (139 %R)	* 1.4 (137 %R) (2 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
1,3-Dichlorobenzene	< 0.05	1.2 (116 %R)	1.1 (114 %R) (2 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
p-Isopropyltoluene	< 0.05	* 1.4 (141 %R)	* 1.4 (139 %R) (1 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
1,4-Dichlorobenzene	< 0.05	1.1 (109 %R)	1.1 (107 %R) (2 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
1,2-Dichlorobenzene	< 0.05	1.1 (109 %R)	1.1 (108 %R) (1 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
n-Butylbenzene	< 0.05	1.3 (127 %R)	1.3 (126 %R) (1 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
1,2-Dibromo-3-chloropropane	< 0.05	0.84 (84 %R)	0.84 (84 %R) (1 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
1,2,4-Trichlorobenzene	< 0.05	1.1 (108 %R)	1.1 (108 %R) (0 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
Hexachlorobutadiene	< 0.05	0.92 (92 %R)	0.92 (92 %R) (0 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
Naphthalene	< 0.1	1.0 (100 %R)	1.0 (102 %R) (2 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
1,2,3-Trichlorobenzene	< 0.05	1.0 (101 %R)	1.0 (101 %R) (0 RPD)	3/30/2020	mg/kg	70 - 130	20	8260C
4-Bromofluorobenzene (surr)	86 %R	101 %R	103 %R	3/30/2020	% Rec	70 - 130	20	8260C
1,2-Dichlorobenzene-d4 (surr)	106 %R	98 %R	96 %R	3/30/2020	% Rec	70 - 130	20	8260C
Toluene-d8 (surr)	100 %R	100 %R	99 %R	3/30/2020	% Rec	70 - 130	20	8260C
1,2-Dichloroethane-d4 (surr)	97 %R	93 %R	93 %R	3/30/2020	% Rec	70 - 130	20	8260C

Samples were extracted and analyzed within holding time limits.

Instrumentation was calibrated in accordance with the method requirements.

The method blanks were free of contamination at the reporting limits.

Sample surrogate recoveries met the above stated criteria.

The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.

There were no exceptions in the analyses, unless noted.

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.

Analytes that exceed limits high but are not detected in the field samples do not impact the data. For analytes that show low recovery and are not detected in the field samples, a low point calibration standard has been analyzed to support the reporting limit.



QC REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 0.1	1.2 (120 %R)	1.2 (118 %R) (1 RPD)	3/31/2020	mg/kg	40 - 160	20	8260C
Chloromethane	< 0.1	1.2 (120 %R)	1.2 (120 %R) (0 RPD)	3/31/2020	mg/kg	40 - 160	20	8260C
Vinyl chloride	< 0.02	0.90 (90 %R)	0.89 (89 %R) (2 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
Bromomethane	< 0.1	1.1 (113 %R)	1.0 (105 %R) (7 RPD)	3/31/2020	mg/kg	40 - 160	20	8260C
Chloroethane	< 0.1	0.91 (91 %R)	0.91 (91 %R) (0 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
Trichlorofluoromethane	< 0.1	1.2 (115 %R)	1.2 (117 %R) (1 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
Diethyl Ether	< 0.05	1.0 (102 %R)	1.0 (102 %R) (0 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
Trichlorotrifluoroethane	< 0.1	1.0 (105 %R)	1.1 (107 %R) (2 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
Acetone	< 2	< 2 (103 %R)	< 2 (104 %R) (1 RPD)	3/31/2020	mg/kg	40 - 160	20	8260C
1,1-Dichloroethene	< 0.05	1.0 (104 %R)	1.1 (106 %R) (2 RPD)	3/31/2020	mg/kg	59 - 172	20	8260C
tert-Butyl Alcohol (TBA)	< 2	3.8 (76 %R)	3.7 (74 %R) (2 RPD)	3/31/2020	mg/kg	40 - 160	20	8260C
Methylene chloride	< 0.1	0.91 (91 %R)	0.93 (93 %R) (2 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
Carbon disulfide	< 0.1	0.98 (98 %R)	1.0 (101 %R) (3 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
Methyl-t-butyl ether(MTBE)	< 0.1	1.1 (108 %R)	1.1 (110 %R) (2 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
Ethyl-t-butyl ether(ETBE)	< 0.1	1.2 (119 %R)	1.2 (121 %R) (2 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
Isopropyl ether(DIPE)	< 0.1	1.1 (114 %R)	1.2 (115 %R) (1 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
tert-amyl methyl ether(TAME)	< 0.1	1.2 (123 %R)	1.3 (125 %R) (2 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
trans-1,2-Dichloroethene	< 0.05	1.1 (105 %R)	1.1 (107 %R) (2 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
1,1-Dichloroethane	< 0.05	1.1 (109 %R)	1.1 (110 %R) (1 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
2,2-Dichloropropane	< 0.05	1.1 (105 %R)	1.1 (107 %R) (1 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
cis-1,2-Dichloroethene	< 0.05	1.2 (121 %R)	1.2 (123 %R) (2 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
2-Butanone(MEK)	< 0.5	0.98 (98 %R)	0.98 (98 %R) (0 RPD)	3/31/2020	mg/kg	40 - 160	20	8260C
Bromochloromethane	< 0.05	1.1 (105 %R)	1.1 (107 %R) (2 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
Tetrahydrofuran(THF)	< 0.5	0.88 (88 %R)	0.89 (89 %R) (1 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
Chloroform	< 0.05	1.0 (105 %R)	1.1 (106 %R) (2 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
1,1,1-Trichloroethane	< 0.05	1.2 (119 %R)	1.2 (122 %R) (2 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
Carbon tetrachloride	< 0.05	1.1 (109 %R)	1.1 (113 %R) (4 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
1,1-Dichloropropene	< 0.05	1.2 (123 %R)	1.3 (126 %R) (3 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
Benzene	< 0.05	1.1 (112 %R)	1.1 (114 %R) (2 RPD)	3/31/2020	mg/kg	66 - 142	20	8260C
1,2-Dichloroethane	< 0.05	1.0 (101 %R)	1.0 (102 %R) (2 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
Trichloroethene	< 0.05	1.2 (117 %R)	1.2 (117 %R) (0 RPD)	3/31/2020	mg/kg	62 - 137	20	8260C
1,2-Dichloropropane	< 0.05	1.1 (111 %R)	1.1 (112 %R) (2 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
Dibromomethane	< 0.05	0.96 (96 %R)	0.98 (98 %R) (2 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
Bromodichloromethane	< 0.05	1.0 (104 %R)	1.1 (106 %R) (2 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
1,4-Dioxane	< 1	1.1 (111 %R)	1.2 (121 %R) (9 RPD)	3/31/2020	mg/kg	40 - 160	20	8260C
4-Methyl-2-pentanone(MIBK)	< 0.5	1.1 (108 %R)	1.1 (109 %R) (1 RPD)	3/31/2020	mg/kg	40 - 160	20	8260C
cis-1,3-Dichloropropene	< 0.05	1.1 (109 %R)	1.1 (111 %R) (1 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
Toluene	< 0.05	1.1 (115 %R)	1.2 (117 %R) (1 RPD)	3/31/2020	mg/kg	59 - 139	20	8260C
trans-1,3-Dichloropropene	< 0.05	1.1 (109 %R)	1.1 (110 %R) (1 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
1,1,2-Trichloroethane	< 0.05	1.0 (102 %R)	1.0 (103 %R) (1 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
2-Hexanone	< 0.1	1.0 (103 %R)	1.0 (104 %R) (1 RPD)	3/31/2020	mg/kg	40 - 160	20	8260C
Tetrachloroethene	< 0.05	1.1 (115 %R)	1.2 (116 %R) (1 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
1,3-Dichloropropane	< 0.05	0.98 (98 %R)	1.0 (100 %R) (1 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
Dibromochloromethane	< 0.05	0.94 (94 %R)	0.96 (96 %R) (2 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
1,2-Dibromoethane(EDB)	< 0.02	1.0 (102 %R)	1.1 (105 %R) (3 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
Chlorobenzene	< 0.05	1.1 (112 %R)	1.1 (114 %R) (2 RPD)	3/31/2020	mg/kg	60 - 133	20	8260C



QC REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,1,1,2-Tetrachloroethane	< 0.05	1.0 (101 %R)	1.0 (103 %R) (2 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
Ethylbenzene	< 0.05	1.3 (128 %R)	1.3 (130 %R) (1 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
mp-Xylene	< 0.05	2.6 (130 %R)	* 2.6 (132 %R) (2 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
o-Xylene	< 0.05	1.2 (124 %R)	1.3 (127 %R) (2 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
Styrene	< 0.05	1.3 (126 %R)	1.3 (129 %R) (2 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
Bromoform	< 0.05	0.87 (87 %R)	0.90 (90 %R) (3 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
IsoPropylbenzene	< 0.05	* 1.5 (146 %R)	* 1.5 (149 %R) (2 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
Bromobenzene	< 0.05	1.1 (105 %R)	1.1 (108 %R) (3 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
1,1,1,2-Tetrachloroethane	< 0.05	0.99 (99 %R)	1.0 (104 %R) (5 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
1,2,3-Trichloropropane	< 0.05	1.0 (101 %R)	1.0 (103 %R) (2 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
n-Propylbenzene	< 0.05	* 1.3 (133 %R)	* 1.4 (136 %R) (2 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
2-Chlorotoluene	< 0.05	1.2 (123 %R)	1.3 (126 %R) (2 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
4-Chlorotoluene	< 0.05	1.2 (119 %R)	1.3 (125 %R) (5 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
1,3,5-Trimethylbenzene	< 0.05	* 1.4 (140 %R)	* 1.4 (144 %R) (3 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
tert-Butylbenzene	< 0.05	* 1.3 (131 %R)	* 1.3 (134 %R) (3 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
1,2,4-Trimethylbenzene	< 0.05	* 1.4 (140 %R)	* 1.4 (144 %R) (3 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
sec-Butylbenzene	< 0.05	* 1.4 (137 %R)	* 1.4 (142 %R) (3 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
1,3-Dichlorobenzene	< 0.05	1.1 (114 %R)	1.2 (118 %R) (3 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
p-Isopropyltoluene	< 0.05	* 1.4 (139 %R)	* 1.4 (144 %R) (4 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
1,4-Dichlorobenzene	< 0.05	1.1 (107 %R)	1.1 (110 %R) (3 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
1,2-Dichlorobenzene	< 0.05	1.1 (108 %R)	1.1 (112 %R) (4 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
n-Butylbenzene	< 0.05	1.2 (122 %R)	1.3 (127 %R) (4 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
1,2-Dibromo-3-chloropropane	< 0.05	0.84 (84 %R)	0.88 (88 %R) (4 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
1,3,5-Trichlorobenzene	< 0.05	1.1 (106 %R)	1.1 (112 %R) (5 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
1,2,4-Trichlorobenzene	< 0.05	1.1 (105 %R)	1.1 (111 %R) (5 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
Hexachlorobutadiene	< 0.05	0.88 (88 %R)	0.94 (94 %R) (6 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
Naphthalene	< 0.1	1.0 (102 %R)	1.1 (107 %R) (5 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
1,2,3-Trichlorobenzene	< 0.05	1.0 (100 %R)	1.0 (104 %R) (4 RPD)	3/31/2020	mg/kg	70 - 130	20	8260C
4-Bromofluorobenzene (surr)	89 %R	102 %R	102 %R	3/31/2020	% Rec	70 - 130	20	8260C
1,2-Dichlorobenzene-d4 (surr)	104 %R	97 %R	98 %R	3/31/2020	% Rec	70 - 130	20	8260C
Toluene-d8 (surr)	99 %R	100 %R	100 %R	3/31/2020	% Rec	70 - 130	20	8260C
1,2-Dichloroethane-d4 (surr)	98 %R	93 %R	93 %R	3/31/2020	% Rec	70 - 130	20	8260C

Samples were extracted and analyzed within holding time limits.

Instrumentation was calibrated in accordance with the method requirements.

The method blanks were free of contamination at the reporting limits.

Sample surrogate recoveries met the above stated criteria.

The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.

There were no exceptions in the analyses, unless noted.

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.

Analytes that exceed limits high but are not detected in the field samples do not impact the data. For analytes that show low recovery and are not detected in the field samples, a low point calibration standard has been analyzed to support the reporting limit.



LABORATORY REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Sample ID:	Comp 23,24,25,26 (0-1)	Comp 27,28,29,30 (0-1)	Comp 31,32,33,34 (0-1)	Comp 35,36,37,38 (0-1)	Comp 72,73,74,75 (0-1.5)	Comp 68,69,70,71 (0-1.5)	Comp 60,61,62,63 (0-1)
Lab Sample ID:	208295.01	208295.02	208295.03	208295.04	208295.05	208295.06	208295.07
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	3/25/20	3/25/20	3/25/20	3/25/20	3/25/20	3/26/20	3/26/20
Date Received:	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	3/30/20	3/30/20	3/30/20	3/30/20	3/30/20	3/30/20	3/30/20
Date of Analysis:	3/31/20	4/1/20	4/1/20	4/1/20	4/1/20	4/1/20	4/1/20
Analyst:	JAK	JAK	JAK	JAK	JAK	JAK	JAK
Method:	8015Cmod	8015Cmod	8015Cmod	8015Cmod	8015Cmod	8015Cmod	8015Cmod
Dilution Factor:	1	1	1	1	1	1	1
TPH (Gasoline Range C6-C10)	< 2	< 2	< 2	< 2	< 2	< 2	< 2
FID 2,5-Dibromotoluene (surr)	140 %R	118 %R	109 %R	110 %R	101 %R	91 %R	81 %R

Comp 23,24,25,26 (0-1): The surrogate 2,5-Dibromotoluene (surr) deviated outside the QC limits within the sample(s) due to % moisture correction.



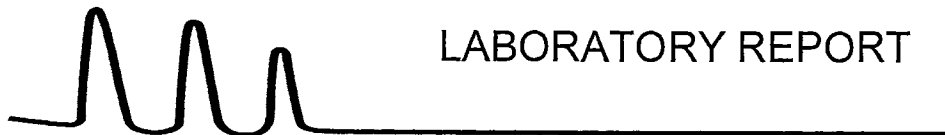
LABORATORY REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Sample ID:	Comp 64,65,66,67 (0-1.5)	Comp 56,57,58,59 (0-1)	Comp 52,53,54,55 (0-1)	Comp 48,49,50,51 (0-1)	Comp 44,45,46,47 (0-1)	Comp 41,42,43 (0-1)	Comp 39,40 (0-3)
Lab Sample ID:	208295.08	208295.09	208295.1	208295.11	208295.12	208295.13	208295.14
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	3/26/20	3/26/20	3/26/20	3/26/20	3/26/20	3/26/20	3/26/20
Date Received:	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Analysis:	4/1/20	4/1/20	4/1/20	4/1/20	4/1/20	4/1/20	4/1/20
Analyst:	JAK	JAK	JAK	JAK	JAK	JAK	JAK
Method:	8015Cmod	8015Cmod	8015Cmod	8015Cmod	8015Cmod	8015Cmod	8015Cmod
Dilution Factor:	1	1	1	1	1	1	1
TPH (Gasoline Range C6-C10)	< 2	< 2	< 2	< 2	< 2	< 2	3.5
FID 2,5-Dibromotoluene (sum)	115 %R	105 %R	118 %R	117 %R	116 %R	109 %R	105 %R



LABORATORY REPORT

EAI ID#: 208295

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Sample ID: Trip Blank - 1 Trip Blank - 2

Lab Sample ID:	208295.15	208295.16
Matrix:	soil	soil
Date Sampled:	3/25/20	3/25/20
Date Received:	3/27/20	3/27/20
Units:	mg/kg	mg/kg
Date of Analysis:	4/1/20	4/1/20
Analyst:	JAK	JAK
Method:	8015Cmod	8015Cmod
Dilution Factor:	1	1
TPH (Gasoline Range C6-C10)	< 2	< 2
FID 2,5-Dibromotoluene (surr)	100 %R	100 %R



QC REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Batch ID: 637213-26119/S033120GRO1

Client Designation: BBP-3B | 58369.00

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
TPH (Gasoline Range C6-C10)	< 2	26 (106 %R)	26 (107 %R) (1 RPD)	3/31/2020	mg/kg	70 - 130	30	8015Cmo
FID 2,5-Dibromotoluene (surr)	101 %R	102 %R	104 %R	3/31/2020	% Rec	70 - 130	30	8015Cmo

Samples were extracted and analyzed within holding time limits.

Instrumentation was calibrated in accordance with the method requirements.

The method blanks were free of contamination at the reporting limits.

Sample surrogate recoveries met the above stated criteria.

The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.

There were no exceptions in the analyses, unless noted.

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.



QC REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Batch ID: 637211-65226/S033020GRO1

Client Designation: BBP-3B | 58369.00

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
TPH (Gasoline Range C6-C10)	< 2	26 (109 %R)	26 (109 %R) (0 RPD)	3/31/2020	mg/kg	70 - 130	30	8015Cmo
FID 2,5-Dibromotoluene (surr)	113 %R	106 %R	103 %R	3/31/2020	% Rec	70 - 130	30	8015Cmo

Samples were extracted and analyzed within holding time limits.

Instrumentation was calibrated in accordance with the method requirements.

The method blanks were free of contamination at the reporting limits.

Sample surrogate recoveries met the above stated criteria.

The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.

There were no exceptions in the analyses, unless noted.

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.



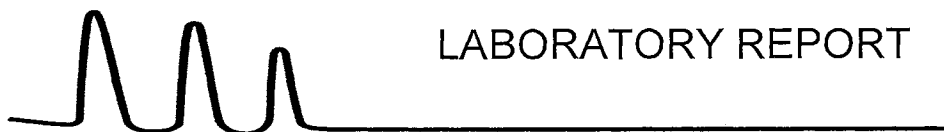
LABORATORY REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Client Sample ID:	Comp 23,24,25,26 (0-1)	Date Prepared:		3/30/20	
Lab Sample ID:	208295.01	Units:		mg/kg	
Matrix:	soil	Method:		8270D	
Date Sampled:	3/25/20	Analyst:		JMR	
Date Received:	3/27/20	Dilution Factor	Date Analyzed	TEF	TEQ
alpha-Terpineol	< 0.4	1	3/31/20		
Phenol	< 0.08	1	3/31/20		
2-Chlorophenol	< 0.08	1	3/31/20		
2,4-Dichlorophenol	< 0.08	1	3/31/20		
2,4,5-Trichlorophenol	< 0.08	1	3/31/20		
2,4,6-Trichlorophenol	< 0.08	1	3/31/20		
Pentachlorophenol	< 0.4	1	3/31/20		
2-Nitrophenol	< 0.4	1	3/31/20		
4-Nitrophenol	< 0.4	1	3/31/20		
2,4-Dinitrophenol	< 0.7	1	3/31/20		
2-Methylphenol	< 0.08	1	3/31/20		
3/4-Methylphenol	< 0.08	1	3/31/20		
2,4-Dimethylphenol	< 0.4	1	3/31/20		
4-Chloro-3-methylphenol	< 0.08	1	3/31/20		
4,6-Dinitro-2-methylphenol	< 0.4	1	3/31/20		
Benzoic Acid	< 4	1	3/31/20		
N-Nitrosodimethylamine	< 0.08	1	3/31/20		
n-Nitroso-di-n-propylamine	< 0.08	1	3/31/20		
n-Nitrosodiphenylamine	< 0.08	1	3/31/20		
bis(2-Chloroethyl)ether	< 0.08	1	3/31/20		
bis(2-chloroisopropyl)ether	< 0.08	1	3/31/20		
bis(2-Chloroethoxy)methane	< 0.08	1	3/31/20		
1,3-Dichlorobenzene	< 0.08	1	3/31/20		
Acetophenone	< 0.7	1	3/31/20		
1,4-Dichlorobenzene	< 0.08	1	3/31/20		
1,2-Dichlorobenzene	< 0.08	1	3/31/20		
1,2,4-Trichlorobenzene	< 0.08	1	3/31/20		
2-Chloronaphthalene	< 0.08	1	3/31/20		
4-Chlorophenyl-phenylether	< 0.08	1	3/31/20		
4-Bromophenyl-phenylether	< 0.08	1	3/31/20		
Hexachloroethane	< 0.08	1	3/31/20		
Hexachlorobutadiene	< 0.08	1	3/31/20		
Hexachlorocyclopentadiene	< 0.4	1	3/31/20		
Hexachlorobenzene	< 0.08	1	3/31/20		
4-Chloroaniline	< 0.08	1	3/31/20		
2,3-Dichloroaniline	< 0.08	1	3/31/20		
2-Nitroaniline	< 0.4	1	3/31/20		
3-Nitroaniline	< 0.4	1	3/31/20		
4-Nitroaniline	< 0.4	1	3/31/20		
Aniline	< 0.08	1	3/31/20		
Benzyl alcohol	< 0.7	1	3/31/20		
Nitrobenzene	< 0.08	1	3/31/20		
Isophorone	< 0.08	1	3/31/20		
2,4-Dinitrotoluene	< 0.4	1	3/31/20		
2,6-Dinitrotoluene	< 0.4	1	3/31/20		
Benzidine (estimated)	< 0.4	1	3/31/20		



LABORATORY REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

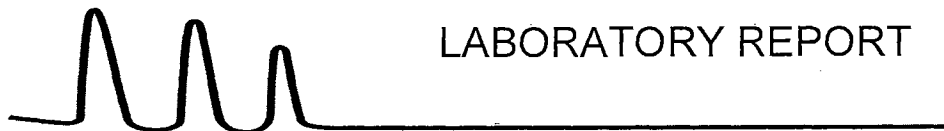
Client Designation: BBP-3B | 58369.00

Client Sample ID:	Comp 23,24,25,26 (0-1)	Date Prepared:		3/30/20	
Lab Sample ID:	208295.01	Units:		mg/kg	
Matrix:	soil	Method:		8270D	
Date Sampled:	3/25/20	Analyst:		JMR	
Date Received:	3/27/20	Dilution Factor	Date Analyzed	TEF	TEQ
3,3'-Dichlorobenzidine	< 0.08	1	3/31/20		
Pyridine	< 0.4	1	3/31/20		
Azobenzene	< 0.08	1	3/31/20		
Carbazole	< 0.08	1	3/31/20		
Dimethylphthalate	< 0.08	1	3/31/20		
Diethylphthalate	< 0.4	1	3/31/20		
Di-n-butylphthalate	< 0.4	1	3/31/20		
Butylbenzylphthalate	< 0.4	1	3/31/20		
bis(2-Ethylhexyl)phthalate	< 0.4	1	3/31/20		
Di-n-octylphthalate	< 0.4	1	3/31/20		
Dibenzofuran	< 0.08	1	3/31/20		
Naphthalene	< 0.007	1	3/31/20		
2-Methylnaphthalene	< 0.007	1	3/31/20		
1-Methylnaphthalene	< 0.007	1	3/31/20		
Acenaphthylene	< 0.007	1	3/31/20		
Acenaphthene	0.0079	1	3/31/20		
Fluorene	0.0091	1	3/31/20		
Phenanthrene	0.082	1	3/31/20		
Anthracene	0.017	1	3/31/20		
Fluoranthene	0.14	1	3/31/20		
Pyrene	0.11	1	3/31/20		
Benzo[a]anthracene	0.066	1	3/31/20	0.1	.0066
Chrysene	0.073	1	3/31/20	0.001	.000073
Benzo[b]fluoranthene	0.094	1	3/31/20	0.1	.0094
Benzo[k]fluoranthene	0.034	1	3/31/20	0.01	.00034
Benzo[a]pyrene	0.072	1	3/31/20	1	.072
Indeno[1,2,3-cd]pyrene	0.043	1	3/31/20	0.1	.0043
Dibenz[a,h]anthracene	0.010	1	3/31/20	1	.01
Benzo[g,h,i]perylene	0.039	1	3/31/20		
n-Decane	< 0.4	1	3/31/20		
n-Octadecane	< 0.4	1	3/31/20		
2-Fluorophenol (surr)	64 %R		3/31/20		
Phenol-d6 (surr)	75 %R		3/31/20		
2,4,6-Tribromophenol (surr)	87 %R		3/31/20		
Nitrobenzene-D5 (surr)	72 %R		3/31/20		
2-Fluorobiphenyl (surr)	76 %R		3/31/20		
p-Terphenyl-D14 (surr)	80 %R		3/31/20		

TEF: Toxicity Equivalent Factor TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

2,6-Dinitrotoluene results are verified from a concentration range of 0.2mg/kg to 0.4mg/kg. n-Nitroso-di-n-propylamine results are verified from a concentration range of 0.04mg/kg to 0.08mg/kg. Analyte detections within these ranges are estimated and qualified with a J value.



LABORATORY REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Client Sample ID:	Comp 27,28,29,30 (0-1)	Date Prepared:	3/30/20
Lab Sample ID:	208295.02	Units:	mg/kg
Matrix:	soil	Method:	8270D
Date Sampled:	3/25/20	Analyst:	JMR
Date Received:	3/27/20	Dilution Factor	
		Date Analyzed	TEF
			TEQ
alpha-Terpineol	< 0.4	1	3/31/20
Phenol	< 0.08	1	3/31/20
2-Chlorophenol	< 0.08	1	3/31/20
2,4-Dichlorophenol	< 0.08	1	3/31/20
2,4,5-Trichlorophenol	< 0.08	1	3/31/20
2,4,6-Trichlorophenol	< 0.08	1	3/31/20
Pentachlorophenol	< 0.4	1	3/31/20
2-Nitrophenol	< 0.4	1	3/31/20
4-Nitrophenol	< 0.4	1	3/31/20
2,4-Dinitrophenol	< 0.7	1	3/31/20
2-Methylphenol	< 0.08	1	3/31/20
3/4-Methylphenol	< 0.08	1	3/31/20
2,4-Dimethylphenol	< 0.4	1	3/31/20
4-Chloro-3-methylphenol	< 0.08	1	3/31/20
4,6-Dinitro-2-methylphenol	< 0.4	1	3/31/20
Benzoic Acid	< 4	1	3/31/20
N-Nitrosodimethylamine	< 0.08	1	3/31/20
n-Nitroso-di-n-propylamine	< 0.08	1	3/31/20
n-Nitrosodiphenylamine	< 0.08	1	3/31/20
bis(2-Chloroethyl)ether	< 0.08	1	3/31/20
bis(2-chloroisopropyl)ether	< 0.08	1	3/31/20
bis(2-Chloroethoxy)methane	< 0.08	1	3/31/20
1,3-Dichlorobenzene	< 0.08	1	3/31/20
Acetophenone	< 0.7	1	3/31/20
1,4-Dichlorobenzene	< 0.08	1	3/31/20
1,2-Dichlorobenzene	< 0.08	1	3/31/20
1,2,4-Trichlorobenzene	< 0.08	1	3/31/20
2-Chloronaphthalene	< 0.08	1	3/31/20
4-Chlorophenyl-phenylether	< 0.08	1	3/31/20
4-Bromophenyl-phenylether	< 0.08	1	3/31/20
Hexachloroethane	< 0.08	1	3/31/20
Hexachlorobutadiene	< 0.08	1	3/31/20
Hexachlorocyclopentadiene	< 0.4	1	3/31/20
Hexachlorobenzene	< 0.08	1	3/31/20
4-Chloroaniline	< 0.08	1	3/31/20
2,3-Dichloroaniline	< 0.08	1	3/31/20
2-Nitroaniline	< 0.4	1	3/31/20
3-Nitroaniline	< 0.4	1	3/31/20
4-Nitroaniline	< 0.4	1	3/31/20
Aniline	< 0.08	1	3/31/20
Benzyl alcohol	< 0.7	1	3/31/20
Nitrobenzene	< 0.08	1	3/31/20
Isophorone	< 0.08	1	3/31/20
2,4-Dinitrotoluene	< 0.4	1	3/31/20
2,6-Dinitrotoluene	< 0.4	1	3/31/20
Benzidine (estimated)	< 0.4	1	3/31/20



LABORATORY REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

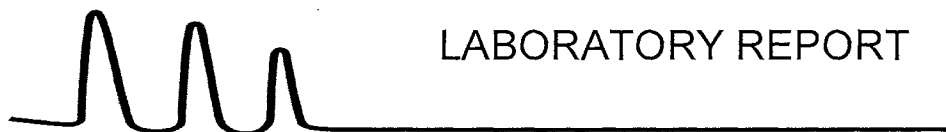
Client Designation: BBP-3B | 58369.00

Client Sample ID:	Comp 27,28,29,30 (0-1)	Date Prepared:	3/30/20		
Lab Sample ID:	208295.02	Units:	mg/kg		
Matrix:	soil	Method:	8270D		
Date Sampled:	3/25/20	Analyst:	JMR		
Date Received:	3/27/20	Dilution Factor	Date Analyzed	TEF	TEQ
3,3'-Dichlorobenzidine	< 0.08	1	3/31/20		
Pyridine	< 0.4	1	3/31/20		
Azobenzene	< 0.08	1	3/31/20		
Carbazole	< 0.08	1	3/31/20		
Dimethylphthalate	< 0.08	1	3/31/20		
Diethylphthalate	< 0.4	1	3/31/20		
Di-n-butylphthalate	< 0.4	1	3/31/20		
Butylbenzylphthalate	< 0.4	1	3/31/20		
bis(2-Ethylhexyl)phthalate	< 0.4	1	3/31/20		
Di-n-octylphthalate	< 0.4	1	3/31/20		
Dibenzofuran	< 0.08	1	3/31/20		
Naphthalene	< 0.007	1	3/31/20		
2-Methylnaphthalene	< 0.007	1	3/31/20		
1-Methylnaphthalene	< 0.007	1	3/31/20		
Acenaphthylene	< 0.007	1	3/31/20		
Acenaphthene	< 0.007	1	3/31/20		
Fluorene	< 0.007	1	3/31/20		
Phenanthrene	0.029	1	3/31/20		
Anthracene	< 0.007	1	3/31/20		
Fluoranthene	0.065	1	3/31/20		
Pyrene	0.057	1	3/31/20		
Benzo[a]anthracene	0.033	1	3/31/20	0.1	.0033
Chrysene	0.036	1	3/31/20	0.001	.000036
Benzo[b]fluoranthene	0.051	1	3/31/20	0.1	.0051
Benzo[k]fluoranthene	0.017	1	3/31/20	0.01	.00017
Benzo[a]pyrene	0.039	1	3/31/20	1	.039
Indeno[1,2,3-cd]pyrene	0.023	1	3/31/20	0.1	.0023
Dibenz[a,h]anthracene	< 0.007	1	3/31/20	1	< .007
Benzo[g,h,i]perylene	0.020	1	3/31/20		
n-Decane	< 0.4	1	3/31/20		
n-Octadecane	< 0.4	1	3/31/20		
2-Fluorophenol (surr)	68 %R		3/31/20		
Phenol-d6 (surr)	78 %R		3/31/20		
2,4,6-Tribromophenol (surr)	91 %R		3/31/20		
Nitrobenzene-D5 (surr)	76 %R		3/31/20		
2-Fluorobiphenyl (surr)	80 %R		3/31/20		
p-Terphenyl-D14 (surr)	81 %R		3/31/20		

TEF: Toxicity Equivalent Factor TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

2,6-Dinitrotoluene results are verified from a concentration range of 0.2mg/kg to 0.4mg/kg. n-Nitroso-di-n-propylamine results are verified from a concentration range of 0.04mg/kg to 0.08mg/kg. Analyte detections within these ranges are estimated and qualified with a J value.



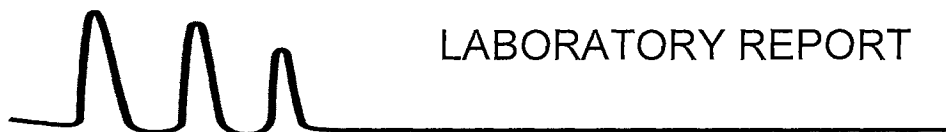
LABORATORY REPORT

EAI ID#: 208295

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Client Sample ID:	Comp 31,32,33,34 (0-1)	Date Prepared:	3/30/20
Lab Sample ID:	208295.03	Units:	mg/kg
Matrix:	soil	Method:	8270D
Date Sampled:	3/25/20	Analyst:	JMR
Date Received:	3/27/20	Dilution Factor	
		Date Analyzed	TEF TEQ
alpha-Terpineol	< 0.4	1	3/31/20
Phenol	< 0.07	1	3/31/20
2-Chlorophenol	< 0.07	1	3/31/20
2,4-Dichlorophenol	< 0.07	1	3/31/20
2,4,5-Trichlorophenol	< 0.07	1	3/31/20
2,4,6-Trichlorophenol	< 0.07	1	3/31/20
Pentachlorophenol	< 0.4	1	3/31/20
2-Nitrophenol	< 0.4	1	3/31/20
4-Nitrophenol	< 0.4	1	3/31/20
2,4-Dinitrophenol	< 0.7	1	3/31/20
2-Methylphenol	< 0.07	1	3/31/20
3/4-Methylphenol	< 0.07	1	3/31/20
2,4-Dimethylphenol	< 0.4	1	3/31/20
4-Chloro-3-methylphenol	< 0.07	1	3/31/20
4,6-Dinitro-2-methylphenol	< 0.4	1	3/31/20
Benzoic Acid	< 4	1	3/31/20
N-Nitrosodimethylamine	< 0.07	1	3/31/20
n-Nitroso-di-n-propylamine	< 0.07	1	3/31/20
n-Nitrosodiphenylamine	< 0.07	1	3/31/20
bis(2-Chloroethyl)ether	< 0.07	1	3/31/20
bis(2-chloroisopropyl)ether	< 0.07	1	3/31/20
bis(2-Chloroethoxy)methane	< 0.07	1	3/31/20
1,3-Dichlorobenzene	< 0.07	1	3/31/20
Acetophenone	< 0.7	1	3/31/20
1,4-Dichlorobenzene	< 0.07	1	3/31/20
1,2-Dichlorobenzene	< 0.07	1	3/31/20
1,2,4-Trichlorobenzene	< 0.07	1	3/31/20
2-Chloronaphthalene	< 0.07	1	3/31/20
4-Chlorophenyl-phenylether	< 0.07	1	3/31/20
4-Bromophenyl-phenylether	< 0.07	1	3/31/20
Hexachloroethane	< 0.07	1	3/31/20
Hexachlorobutadiene	< 0.07	1	3/31/20
Hexachlorocyclopentadiene	< 0.4	1	3/31/20
Hexachlorobenzene	< 0.07	1	3/31/20
4-Chloroaniline	< 0.07	1	3/31/20
2,3-Dichloroaniline	< 0.07	1	3/31/20
2-Nitroaniline	< 0.4	1	3/31/20
3-Nitroaniline	< 0.4	1	3/31/20
4-Nitroaniline	< 0.4	1	3/31/20
Aniline	< 0.07	1	3/31/20
Benzyl alcohol	< 0.7	1	3/31/20
Nitrobenzene	< 0.07	1	3/31/20
Isophorone	< 0.07	1	3/31/20
2,4-Dinitrotoluene	< 0.4	1	3/31/20
2,6-Dinitrotoluene	< 0.4	1	3/31/20
Benzidine (estimated)	< 0.4	1	3/31/20



LABORATORY REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Client Sample ID:	Comp 31,32,33,34 (0-1)	Date Prepared:		3/30/20	
Lab Sample ID:	208295.03	Units:		mg/kg	
Matrix:	soil	Method:		8270D	
Date Sampled:	3/25/20	Analyst:		JMR	
Date Received:	3/27/20	Dilution Factor	Date Analyzed	TEF	TEQ
3,3'-Dichlorobenzidine	< 0.07	1	3/31/20		
Pyridine	< 0.4	1	3/31/20		
Azobenzene	< 0.07	1	3/31/20		
Carbazole	< 0.07	1	3/31/20		
Dimethylphthalate	< 0.07	1	3/31/20		
Diethylphthalate	< 0.4	1	3/31/20		
Di-n-butylphthalate	< 0.4	1	3/31/20		
Butylbenzylphthalate	< 0.4	1	3/31/20		
bis(2-Ethylhexyl)phthalate	< 0.4	1	3/31/20		
Di-n-octylphthalate	< 0.4	1	3/31/20		
Dibenzofuran	< 0.07	1	3/31/20		
Naphthalene	0.070	1	3/31/20		
2-Methylnaphthalene	0.12	1	3/31/20		
1-Methylnaphthalene	0.11	1	3/31/20		
Acenaphthylene	0.032	1	3/31/20		
Acenaphthene	< 0.007	1	3/31/20		
Fluorene	< 0.007	1	3/31/20		
Phenanthrene	0.081	1	3/31/20		
Anthracene	0.017	1	3/31/20		
Fluoranthene	0.13	1	3/31/20		
Pyrene	0.14	1	3/31/20		
Benzo[a]anthracene	0.086	1	3/31/20	0.1	.0086
Chrysene	0.11	1	3/31/20	0.001	.00011
Benzo[b]fluoranthene	0.15	1	3/31/20	0.1	.015
Benzo[k]fluoranthene	0.056	1	3/31/20	0.01	.00056
Benzo[a]pyrene	0.10	1	3/31/20	1	.1
Indeno[1,2,3-cd]pyrene	0.063	1	3/31/20	0.1	.0063
Dibenz[a,h]anthracene	0.017	1	3/31/20	1	.017
Benzo[g,h,i]perylene	0.056	1	3/31/20		
n-Decane	< 0.4	1	3/31/20		
n-Octadecane	< 0.4	1	3/31/20		
2-Fluorophenol (surr)	57 %R		3/31/20		
Phenol-d6 (surr)	67 %R		3/31/20		
2,4,6-Tribromophenol (surr)	84 %R		3/31/20		
Nitrobenzene-D5 (surr)	65 %R		3/31/20		
2-Fluorobiphenyl (surr)	70 %R		3/31/20		
p-Terphenyl-D14 (surr)	77 %R		3/31/20		

TEF: Toxicity Equivalent Factor TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

2,6-Dinitrotoluene results are verified from a concentration range of 0.2mg/kg to 0.4mg/kg. n-Nitroso-di-n-propylamine results are verified from a concentration range of 0.04mg/kg to 0.08mg/kg. Analyte detections within these ranges are estimated and qualified with a J value.



LABORATORY REPORT

EAI ID#: 208295

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**Client Designation: **BBP-3B | 58369.00**

Client Sample ID:	Comp 35,36,37,38 (0-1)	Date Prepared:		3/30/20	
Lab Sample ID:	208295.04	Units:		mg/kg	
Matrix:	soil	Method:		8270D	
Date Sampled:	3/25/20	Analyst:		JMR	
Date Received:	3/27/20	Dilution Factor	Date Analyzed	TEF	TEQ
alpha-Terpineol	< 0.4	1	3/31/20		
Phenol	< 0.08	1	3/31/20		
2-Chlorophenol	< 0.08	1	3/31/20		
2,4-Dichlorophenol	< 0.08	1	3/31/20		
2,4,5-Trichlorophenol	< 0.08	1	3/31/20		
2,4,6-Trichlorophenol	< 0.08	1	3/31/20		
Pentachlorophenol	< 0.4	1	3/31/20		
2-Nitrophenol	< 0.4	1	3/31/20		
4-Nitrophenol	< 0.4	1	3/31/20		
2,4-Dinitrophenol	< 0.7	1	3/31/20		
2-Methylphenol	< 0.08	1	3/31/20		
3/4-Methylphenol	< 0.08	1	3/31/20		
2,4-Dimethylphenol	< 0.4	1	3/31/20		
4-Chloro-3-methylphenol	< 0.08	1	3/31/20		
4,6-Dinitro-2-methylphenol	< 0.4	1	3/31/20		
Benzoic Acid	< 4	1	3/31/20		
N-Nitrosodimethylamine	< 0.08	1	3/31/20		
n-Nitroso-di-n-propylamine	< 0.08	1	3/31/20		
n-Nitrosodiphenylamine	< 0.08	1	3/31/20		
bis(2-Chloroethyl)ether	< 0.08	1	3/31/20		
bis(2-chloroisopropyl)ether	< 0.08	1	3/31/20		
bis(2-Chloroethoxy)methane	< 0.08	1	3/31/20		
1,3-Dichlorobenzene	< 0.08	1	3/31/20		
Acetophenone	< 0.7	1	3/31/20		
1,4-Dichlorobenzene	< 0.08	1	3/31/20		
1,2-Dichlorobenzene	< 0.08	1	3/31/20		
1,2,4-Trichlorobenzene	< 0.08	1	3/31/20		
2-Chloronaphthalene	< 0.08	1	3/31/20		
4-Chlorophenyl-phenylether	< 0.08	1	3/31/20		
4-Bromophenyl-phenylether	< 0.08	1	3/31/20		
Hexachloroethane	< 0.08	1	3/31/20		
Hexachlorobutadiene	< 0.08	1	3/31/20		
Hexachlorocyclopentadiene	< 0.4	1	3/31/20		
Hexachlorobenzene	< 0.08	1	3/31/20		
4-Chloroaniline	< 0.08	1	3/31/20		
2,3-Dichloroaniline	< 0.08	1	3/31/20		
2-Nitroaniline	< 0.4	1	3/31/20		
3-Nitroaniline	< 0.4	1	3/31/20		
4-Nitroaniline	< 0.4	1	3/31/20		
Aniline	< 0.08	1	3/31/20		
Benzyl alcohol	< 0.7	1	3/31/20		
Nitrobenzene	< 0.08	1	3/31/20		
Isophorone	< 0.08	1	3/31/20		
2,4-Dinitrotoluene	< 0.4	1	3/31/20		
2,6-Dinitrotoluene	< 0.4	1	3/31/20		
Benzydine (estimated)	< 0.4	1	3/31/20		



LABORATORY REPORT

EAI ID#: 208295

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

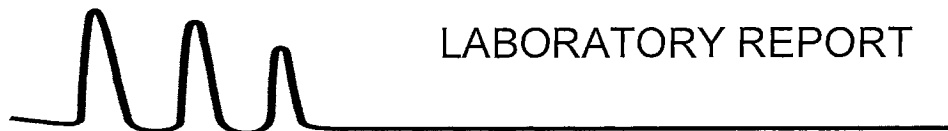
Client Designation: **BBP-3B | 58369.00**

Client Sample ID:	Comp 35,36,37,38 (0-1)	Date Prepared:	3/30/20		
Lab Sample ID:	208295.04	Units:	mg/kg		
Matrix:	soil	Method:	8270D		
Date Sampled:	3/25/20	Analyst:	JMR		
Date Received:	3/27/20	Dilution Factor	Date Analyzed	TEF	TEQ
3,3'-Dichlorobenzidine	< 0.08	1	3/31/20		
Pyridine	< 0.4	1	3/31/20		
Azobenzene	< 0.08	1	3/31/20		
Carbazole	0.11	1	3/31/20		
Dimethylphthalate	< 0.08	1	3/31/20		
Diethylphthalate	< 0.4	1	3/31/20		
Di-n-butylphthalate	< 0.4	1	3/31/20		
Butylbenzylphthalate	< 0.4	1	3/31/20		
bis(2-Ethylhexyl)phthalate	< 0.4	1	3/31/20		
Di-n-octylphthalate	< 0.4	1	3/31/20		
Dibenzofuran	< 0.08	1	3/31/20		
Naphthalene	0.026	1	3/31/20		
2-Methylnaphthalene	0.024	1	3/31/20		
1-Methylnaphthalene	0.026	1	3/31/20		
Acenaphthylene	0.021	1	3/31/20		
Acenaphthene	0.054	1	3/31/20		
Fluorene	0.075	1	3/31/20		
Phenanthrene	0.75	1	3/31/20		
Anthracene	0.19	1	3/31/20		
Fluoranthene	1.1	1	3/31/20		
Pyrene	0.83	1	3/31/20		
Benzo[a]anthracene	0.52	1	3/31/20	0.1	.052
Chrysene	0.54	1	3/31/20	0.001	.00054
Benzo[b]fluoranthene	0.64	1	3/31/20	0.1	.064
Benzo[k]fluoranthene	0.25	1	3/31/20	0.01	.0025
Benzo[a]pyrene	0.47	1	3/31/20	1	.47
Indeno[1,2,3-cd]pyrene	0.19	1	3/31/20	0.1	.019
Dibenz[a,h]anthracene	0.050	1	3/31/20	1	.05
Benzo[g,h,i]perylene	0.15	1	3/31/20		
n-Decane	< 0.4	1	3/31/20		
n-Octadecane	< 0.4	1	3/31/20		
2-Fluorophenol (surr)	63 %R		3/31/20		
Phenol-d6 (surr)	73 %R		3/31/20		
2,4,6-Tribromophenol (surr)	86 %R		3/31/20		
Nitrobenzene-D5 (surr)	69 %R		3/31/20		
2-Fluorobiphenyl (surr)	75 %R		3/31/20		
p-Terphenyl-D14 (surr)	76 %R		3/31/20		

TEF: Toxicity Equivalent Factor TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

2,6-Dinitrotoluene results are verified from a concentration range of 0.2mg/kg to 0.4mg/kg. n-Nitroso-di-n-propylamine results are verified from a concentration range of 0.04mg/kg to 0.08mg/kg. Analyte detections within these ranges are estimated and qualified with a J value.



LABORATORY REPORT

EAI ID#: 208295

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Client Sample ID:	Comp 72,73,74,75 (0-1.5)	Date Prepared:	3/30/20
Lab Sample ID:	208295.05	Units:	mg/kg
Matrix:	soil	Method:	8270D
Date Sampled:	3/25/20	Analyst:	JMR
Date Received:	3/27/20	Dilution Factor	Date Analyzed
		TEF	TEQ
alpha-Terpineol	< 0.4	1	3/31/20
Phenol	< 0.08	1	3/31/20
2-Chlorophenol	< 0.08	1	3/31/20
2,4-Dichlorophenol	< 0.08	1	3/31/20
2,4,5-Trichlorophenol	< 0.08	1	3/31/20
2,4,6-Trichlorophenol	< 0.08	1	3/31/20
Pentachlorophenol	< 0.4	1	3/31/20
2-Nitrophenol	< 0.4	1	3/31/20
4-Nitrophenol	< 0.4	1	3/31/20
2,4-Dinitrophenol	< 0.8	1	3/31/20
2-Methylphenol	< 0.08	1	3/31/20
3/4-Methylphenol	< 0.08	1	3/31/20
2,4-Dimethylphenol	< 0.4	1	3/31/20
4-Chloro-3-methylphenol	< 0.08	1	3/31/20
4,6-Dinitro-2-methylphenol	< 0.4	1	3/31/20
Benzoic Acid	< 4	1	3/31/20
N-Nitrosodimethylamine	< 0.08	1	3/31/20
n-Nitroso-di-n-propylamine	< 0.08	1	3/31/20
n-Nitrosodiphenylamine	< 0.08	1	3/31/20
bis(2-Chloroethyl)ether	< 0.08	1	3/31/20
bis(2-chloroisopropyl)ether	< 0.08	1	3/31/20
bis(2-Chloroethoxy)methane	< 0.08	1	3/31/20
1,3-Dichlorobenzene	< 0.08	1	3/31/20
Acetophenone	< 0.8	1	3/31/20
1,4-Dichlorobenzene	< 0.08	1	3/31/20
1,2-Dichlorobenzene	< 0.08	1	3/31/20
1,2,4-Trichlorobenzene	< 0.08	1	3/31/20
2-Chloronaphthalene	< 0.08	1	3/31/20
4-Chlorophenyl-phenylether	< 0.08	1	3/31/20
4-Bromophenyl-phenylether	< 0.08	1	3/31/20
Hexachloroethane	< 0.08	1	3/31/20
Hexachlorobutadiene	< 0.08	1	3/31/20
Hexachlorocyclopentadiene	< 0.4	1	3/31/20
Hexachlorobenzene	< 0.08	1	3/31/20
4-Chloroaniline	< 0.08	1	3/31/20
2,3-Dichloroaniline	< 0.08	1	3/31/20
2-Nitroaniline	< 0.4	1	3/31/20
3-Nitroaniline	< 0.4	1	3/31/20
4-Nitroaniline	< 0.4	1	3/31/20
Aniline	< 0.08	1	3/31/20
Benzyl alcohol	< 0.8	1	3/31/20
Nitrobenzene	< 0.08	1	3/31/20
Isophorone	< 0.08	1	3/31/20
2,4-Dinitrotoluene	< 0.4	1	3/31/20
2,6-Dinitrotoluene	< 0.4	1	3/31/20
Benzidine (estimated)	< 0.4	1	3/31/20



LABORATORY REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

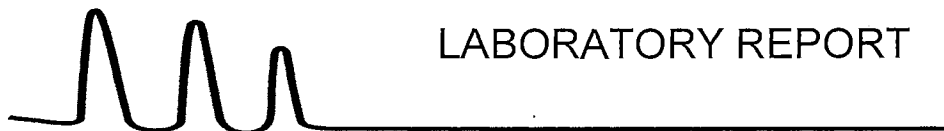
Client Designation: BBP-3B | 58369.00

Client Sample ID:	Comp 72,73,74,75 (0-1.5)	Date Prepared:		3/30/20	
Lab Sample ID:	208295.05	Units:		mg/kg	
Matrix:	soil	Method:		8270D	
Date Sampled:	3/25/20	Analyst:		JMR	
Date Received:	3/27/20	Dilution Factor	Date Analyzed	TEF	TEQ
3,3'-Dichlorobenzidine	< 0.08	1	3/31/20		
Pyridine	< 0.4	1	3/31/20		
Azobenzene	< 0.08	1	3/31/20		
Carbazole	< 0.08	1	3/31/20		
Dimethylphthalate	< 0.08	1	3/31/20		
Diethylphthalate	< 0.4	1	3/31/20		
Di-n-butylphthalate	< 0.4	1	3/31/20		
Butylbenzylphthalate	< 0.4	1	3/31/20		
bis(2-Ethylhexyl)phthalate	< 0.4	1	3/31/20		
Di-n-octylphthalate	< 0.4	1	3/31/20		
Dibenzofuran	< 0.08	1	3/31/20		
Naphthalene	< 0.008	1	3/31/20		
2-Methylnaphthalene	0.0091	1	3/31/20		
1-Methylnaphthalene	< 0.008	1	3/31/20		
Acenaphthylene	< 0.008	1	3/31/20		
Acenaphthene	< 0.008	1	3/31/20		
Fluorene	< 0.008	1	3/31/20		
Phenanthrene	0.024	1	3/31/20		
Anthracene	< 0.008	1	3/31/20		
Fluoranthene	0.035	1	3/31/20		
Pyrene	0.033	1	3/31/20		
Benzo[a]anthracene	0.020	1	3/31/20	0.1	.002
Chrysene	0.021	1	3/31/20	0.001	.000021
Benzo[b]fluoranthene	0.071	1	3/31/20	0.1	.0071
Benzo[k]fluoranthene	0.020	1	3/31/20	0.01	.0002
Benzo[a]pyrene	0.035	1	3/31/20	1	.035
Indeno[1,2,3-cd]pyrene	0.035	1	3/31/20	0.1	.0035
Dibenz[a,h]anthracene	< 0.008	1	3/31/20	1	< .008
Benzo[g,h,i]perylene	0.028	1	3/31/20		
n-Decane	< 0.4	1	3/31/20		
n-Octadecane	< 0.4	1	3/31/20		
2-Fluorophenol (surr)	62 %R		3/31/20		
Phenol-d6 (surr)	72 %R		3/31/20		
2,4,6-Tribromophenol (surr)	84 %R		3/31/20		
Nitrobenzene-D5 (surr)	70 %R		3/31/20		
2-Fluorobiphenyl (surr)	74 %R		3/31/20		
p-Terphenyl-D14 (surr)	72 %R		3/31/20		

TEF: Toxicity Equivalent Factor TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

2,6-Dinitrotoluene results are verified from a concentration range of 0.2mg/kg to 0.4mg/kg. n-Nitroso-di-n-propylamine results are verified from a concentration range of 0.04mg/kg to 0.08mg/kg. Analyte detections within these ranges are estimated and qualified with a J value.



LABORATORY REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Client Sample ID:	Comp 68,69,70,71 (0-1.5)	Date Prepared:	3/30/20		
Lab Sample ID:	208295.06	Units:	mg/kg		
Matrix:	soil	Method:	8270D		
Date Sampled:	3/26/20	Analyst:	JMR		
Date Received:	3/27/20				
		Dilution Factor	Date Analyzed	TEF	TEQ
alpha-Terpineol	< 0.4	1	3/31/20		
Phenol	< 0.08	1	3/31/20		
2-Chlorophenol	< 0.08	1	3/31/20		
2,4-Dichlorophenol	< 0.08	1	3/31/20		
2,4,5-Trichlorophenol	< 0.08	1	3/31/20		
2,4,6-Trichlorophenol	< 0.08	1	3/31/20		
Pentachlorophenol	< 0.4	1	3/31/20		
2-Nitrophenol	< 0.4	1	3/31/20		
4-Nitrophenol	< 0.4	1	3/31/20		
2,4-Dinitrophenol	< 0.8	1	3/31/20		
2-Methylphenol	< 0.08	1	3/31/20		
3/4-Methylphenol	< 0.08	1	3/31/20		
2,4-Dimethylphenol	< 0.4	1	3/31/20		
4-Chloro-3-methylphenol	< 0.08	1	3/31/20		
4,6-Dinitro-2-methylphenol	< 0.4	1	3/31/20		
Benzoic Acid	< 4	1	3/31/20		
N-Nitrosodimethylamine	< 0.08	1	3/31/20		
n-Nitroso-di-n-propylamine	< 0.08	1	3/31/20		
n-Nitrosodiphenylamine	< 0.08	1	3/31/20		
bis(2-Chloroethyl)ether	< 0.08	1	3/31/20		
bis(2-chloroisopropyl)ether	< 0.08	1	3/31/20		
bis(2-Chloroethoxy)methane	< 0.08	1	3/31/20		
1,3-Dichlorobenzene	< 0.08	1	3/31/20		
Acetophenone	< 0.8	1	3/31/20		
1,4-Dichlorobenzene	< 0.08	1	3/31/20		
1,2-Dichlorobenzene	< 0.08	1	3/31/20		
1,2,4-Trichlorobenzene	< 0.08	1	3/31/20		
2-Chloronaphthalene	< 0.08	1	3/31/20		
4-Chlorophenyl-phenylether	< 0.08	1	3/31/20		
4-Bromophenyl-phenylether	< 0.08	1	3/31/20		
Hexachloroethane	< 0.08	1	3/31/20		
Hexachlorobutadiene	< 0.08	1	3/31/20		
Hexachlorocyclopentadiene	< 0.4	1	3/31/20		
Hexachlorobenzene	< 0.08	1	3/31/20		
4-Chloroaniline	< 0.08	1	3/31/20		
2,3-Dichloroaniline	< 0.08	1	3/31/20		
2-Nitroaniline	< 0.4	1	3/31/20		
3-Nitroaniline	< 0.4	1	3/31/20		
4-Nitroaniline	< 0.4	1	3/31/20		
Aniline	< 0.08	1	3/31/20		
Benzyl alcohol	< 0.8	1	3/31/20		
Nitrobenzene	< 0.08	1	3/31/20		
Isophorone	< 0.08	1	3/31/20		
2,4-Dinitrotoluene	< 0.4	1	3/31/20		
2,6-Dinitrotoluene	< 0.4	1	3/31/20		
Benzidine (estimated)	< 0.4	1	3/31/20		



LABORATORY REPORT

EAI ID#: 208295

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Client Sample ID:	Comp 68,69,70,71 (0-1.5)	Date Prepared:	3/30/20		
Lab Sample ID:	208295.06	Units:	mg/kg		
Matrix:	soil	Method:	8270D		
Date Sampled:	3/26/20	Analyst:	JMR		
Date Received:	3/27/20	Dilution Factor	Date Analyzed	TEF	TEQ
3,3'-Dichlorobenzidine	< 0.08	1	3/31/20		
Pyridine	< 0.4	1	3/31/20		
Azobenzene	< 0.08	1	3/31/20		
Carbazole	< 0.08	1	3/31/20		
Dimethylphthalate	< 0.08	1	3/31/20		
Diethylphthalate	< 0.4	1	3/31/20		
Di-n-butylphthalate	< 0.4	1	3/31/20		
Butylbenzylphthalate	< 0.4	1	3/31/20		
bis(2-Ethylhexyl)phthalate	< 0.4	1	3/31/20		
Di-n-octylphthalate	< 0.4	1	3/31/20		
Dibenzofuran	< 0.08	1	3/31/20		
Naphthalene	< 0.008	1	3/31/20		
2-Methylnaphthalene	< 0.008	1	3/31/20		
1-Methylnaphthalene	< 0.008	1	3/31/20		
Acenaphthylene	< 0.008	1	3/31/20		
Acenaphthene	< 0.008	1	3/31/20		
Fluorene	< 0.008	1	3/31/20		
Phenanthrene	< 0.008	1	3/31/20		
Anthracene	< 0.008	1	3/31/20		
Fluoranthene	0.011	1	3/31/20		
Pyrene	0.0095	1	3/31/20		
Benzo[a]anthracene	0.0087	1	3/31/20	0.1	.00087
Chrysene	< 0.008	1	3/31/20	0.001	< .00000
Benzo[b]fluoranthene	0.010	1	3/31/20	0.1	.001
Benzo[k]fluoranthene	< 0.008	1	3/31/20	0.01	< .00008
Benzo[a]pyrene	< 0.008	1	3/31/20	1	< .008
Indeno[1,2,3-cd]pyrene	< 0.008	1	3/31/20	0.1	< .0008
Dibenz[a,h]anthracene	< 0.008	1	3/31/20	1	< .008
Benzo[g,h,i]perylene	< 0.008	1	3/31/20		
n-Decane	< 0.4	1	3/31/20		
n-Octadecane	< 0.4	1	3/31/20		
2-Fluorophenol (surr)	61 %R		3/31/20		
Phenol-d6 (surr)	71 %R		3/31/20		
2,4,6-Tribromophenol (surr)	85 %R		3/31/20		
Nitrobenzene-D5 (surr)	69 %R		3/31/20		
2-Fluorobiphenyl (surr)	74 %R		3/31/20		
p-Terphenyl-D14 (surr)	74 %R		3/31/20		

TEF: Toxicity Equivalent Factor TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

2,6-Dinitrotoluene results are verified from a concentration range of 0.2mg/kg to 0.4mg/kg. n-Nitroso-di-n-propylamine results are verified from a concentration range of 0.04mg/kg to 0.08mg/kg. Analyte detections within these ranges are estimated and qualified with a J value.



LABORATORY REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Client Sample ID:	Comp 60,61,62,63 (0-1)	Date Prepared:	3/31/20
Lab Sample ID:	208295.07	Units:	mg/kg
Matrix:	soil	Method:	8270D
Date Sampled:	3/26/20	Analyst:	JMR
Date Received:	3/27/20	Dilution Factor	
		Date Analyzed	TEF
			TEQ
alpha-Terpineol	< 0.4	1	4/1/20
Phenol	< 0.08	1	4/1/20
2-Chlorophenol	< 0.08	1	4/1/20
2,4-Dichlorophenol	< 0.08	1	4/1/20
2,4,5-Trichlorophenol	< 0.08	1	4/1/20
2,4,6-Trichlorophenol	< 0.08	1	4/1/20
Pentachlorophenol	< 0.4	1	4/1/20
2-Nitrophenol	< 0.4	1	4/1/20
4-Nitrophenol	< 0.4	1	4/1/20
2,4-Dinitrophenol	< 0.7	1	4/1/20
2-Methylphenol	< 0.08	1	4/1/20
3/4-Methylphenol	< 0.08	1	4/1/20
2,4-Dimethylphenol	< 0.4	1	4/1/20
4-Chloro-3-methylphenol	< 0.08	1	4/1/20
4,6-Dinitro-2-methylphenol	< 0.4	1	4/1/20
Benzoic Acid	< 4	1	4/1/20
N-Nitrosodimethylamine	< 0.08	1	4/1/20
n-Nitroso-di-n-propylamine	< 0.08	1	4/1/20
n-Nitrosodiphenylamine	< 0.08	1	4/1/20
bis(2-Chloroethyl)ether	< 0.08	1	4/1/20
bis(2-chloroisopropyl)ether	< 0.08	1	4/1/20
bis(2-Chloroethoxy)methane	< 0.08	1	4/1/20
1,3-Dichlorobenzene	< 0.08	1	4/1/20
Acetophenone	< 0.7	1	4/1/20
1,4-Dichlorobenzene	< 0.08	1	4/1/20
1,2-Dichlorobenzene	< 0.08	1	4/1/20
1,2,4-Trichlorobenzene	< 0.08	1	4/1/20
2-Chloronaphthalene	< 0.08	1	4/1/20
4-Chlorophenyl-phenylether	< 0.08	1	4/1/20
4-Bromophenyl-phenylether	< 0.08	1	4/1/20
Hexachloroethane	< 0.08	1	4/1/20
Hexachlorobutadiene	< 0.08	1	4/1/20
Hexachlorocyclopentadiene	< 0.4	1	4/1/20
Hexachlorobenzene	< 0.08	1	4/1/20
4-Chloroaniline	< 0.08	1	4/1/20
2,3-Dichloroaniline	< 0.08	1	4/1/20
2-Nitroaniline	< 0.4	1	4/1/20
3-Nitroaniline	< 0.4	1	4/1/20
4-Nitroaniline	< 0.4	1	4/1/20
Aniline	< 0.08	1	4/1/20
Benzyl alcohol	< 0.7	1	4/1/20
Nitrobenzene	< 0.08	1	4/1/20
Isophorone	< 0.08	1	4/1/20
2,4-Dinitrotoluene	< 0.4	1	4/1/20
2,6-Dinitrotoluene	< 0.4	1	4/1/20
Benzidine (estimated)	< 0.4	1	4/1/20



LABORATORY REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Client Sample ID:	Comp 60,61,62,63 (0-1)	Date Prepared:		3/31/20	
Lab Sample ID:	208295.07	Units:		mg/kg	
Matrix:	soil	Method:		8270D	
Date Sampled:	3/26/20	Dilution Factor	Date Analyzed	TEF	TEQ
Date Received:	3/27/20				
3,3'-Dichlorobenzidine	< 0.08	1	4/1/20		
Pyridine	< 0.4	1	4/1/20		
Azobenzene	< 0.08	1	4/1/20		
Carbazole	< 0.08	1	4/1/20		
Dimethylphthalate	< 0.08	1	4/1/20		
Diethylphthalate	< 0.4	1	4/1/20		
Di-n-butylphthalate	< 0.4	1	4/1/20		
Butylbenzylphthalate	< 0.4	1	4/1/20		
bis(2-Ethylhexyl)phthalate	< 0.4	1	4/1/20		
Di-n-octylphthalate	< 0.4	1	4/1/20		
Dibenzofuran	< 0.08	1	4/1/20		
Naphthalene	0.029	1	4/1/20		
2-Methylnaphthalene	0.031	1	4/1/20		
1-Methylnaphthalene	0.023	1	4/1/20		
Acenaphthylene	0.087	1	4/1/20		
Acenaphthene	< 0.007	1	4/1/20		
Fluorene	0.017	1	4/1/20		
Phenanthrene	0.077	1	4/1/20		
Anthracene	0.030	1	4/1/20		
Fluoranthene	0.29	1	4/1/20		
Pyrene	0.32	1	4/1/20		
Benzo[a]anthracene	0.17	1	4/1/20	0.1	.017
Chrysene	0.17	1	4/1/20	0.001	.00017
Benzo[b]fluoranthene	0.48	1	4/1/20	0.1	.048
Benzo[k]fluoranthene	0.15	1	4/1/20	0.01	.0015
Benzo[a]pyrene	0.31	1	4/1/20	1	.31
Indeno[1,2,3-cd]pyrene	0.22	1	4/1/20	0.1	.022
Dibenz[a,h]anthracene	0.021	1	4/1/20	1	.021
Benzo[g,h,i]perylene	0.19	1	4/1/20		
n-Decane	< 0.4	1	4/1/20		
n-Octadecane	< 0.4	1	4/1/20		
2-Fluorophenol (surr)	61 %R		4/1/20		
Phenol-d6 (surr)	70 %R		4/1/20		
2,4,6-Tribromophenol (surr)	81 %R		4/1/20		
Nitrobenzene-D5 (surr)	66 %R		4/1/20		
2-Fluorobiphenyl (surr)	73 %R		4/1/20		
p-Terphenyl-D14 (surr)	68 %R		4/1/20		

TEF: Toxicity Equivalent Factor TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

2,6-Dinitrotoluene results are verified from a concentration range of 0.2mg/kg to 0.4mg/kg. n-Nitroso-di-n-propylamine results are verified from a concentration range of 0.04mg/kg to 0.08mg/kg. Analyte detections within these ranges are estimated and qualified with a J value.



LABORATORY REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Client Sample ID:	Comp 64,65,66,67 (0-1.5)	Date Prepared:		3/30/20	
Lab Sample ID:	208295.08	Units:		mg/kg	
Matrix:	soil	Method:		8270D	
Date Sampled:	3/26/20	Analyst:		JMR	
Date Received:	3/27/20	Dilution Factor	Date Analyzed	TEF	TEQ
alpha-Terpineol	< 0.4	1	3/31/20		
Phenol	< 0.08	1	3/31/20		
2-Chlorophenol	< 0.08	1	3/31/20		
2,4-Dichlorophenol	< 0.08	1	3/31/20		
2,4,5-Trichlorophenol	< 0.08	1	3/31/20		
2,4,6-Trichlorophenol	< 0.08	1	3/31/20		
Pentachlorophenol	< 0.4	1	3/31/20		
2-Nitrophenol	< 0.4	1	3/31/20		
4-Nitrophenol	< 0.4	1	3/31/20		
2,4-Dinitrophenol	< 0.8	1	3/31/20		
2-Methylphenol	< 0.08	1	3/31/20		
3/4-Methylphenol	< 0.08	1	3/31/20		
2,4-Dimethylphenol	< 0.4	1	3/31/20		
4-Chloro-3-methylphenol	< 0.08	1	3/31/20		
4,6-Dinitro-2-methylphenol	< 0.4	1	3/31/20		
Benzoic Acid	< 4	1	3/31/20		
N-Nitrosodimethylamine	< 0.08	1	3/31/20		
n-Nitroso-di-n-propylamine	< 0.08	1	3/31/20		
n-Nitrosodiphenylamine	< 0.08	1	3/31/20		
bis(2-Chloroethyl)ether	< 0.08	1	3/31/20		
bis(2-chloroisopropyl)ether	< 0.08	1	3/31/20		
bis(2-Chloroethoxy)methane	< 0.08	1	3/31/20		
1,3-Dichlorobenzene	< 0.08	1	3/31/20		
Acetophenone	< 0.8	1	3/31/20		
1,4-Dichlorobenzene	< 0.08	1	3/31/20		
1,2-Dichlorobenzene	< 0.08	1	3/31/20		
1,2,4-Trichlorobenzene	< 0.08	1	3/31/20		
2-Chloronaphthalene	< 0.08	1	3/31/20		
4-Chlorophenyl-phenylether	< 0.08	1	3/31/20		
4-Bromophenyl-phenylether	< 0.08	1	3/31/20		
Hexachloroethane	< 0.08	1	3/31/20		
Hexachlorobutadiene	< 0.08	1	3/31/20		
Hexachlorocyclopentadiene	< 0.4	1	3/31/20		
Hexachlorobenzene	< 0.08	1	3/31/20		
4-Chloroaniline	< 0.08	1	3/31/20		
2,3-Dichloroaniline	< 0.08	1	3/31/20		
2-Nitroaniline	< 0.4	1	3/31/20		
3-Nitroaniline	< 0.4	1	3/31/20		
4-Nitroaniline	< 0.4	1	3/31/20		
Aniline	< 0.08	1	3/31/20		
Benzyl alcohol	< 0.8	1	3/31/20		
Nitrobenzene	< 0.08	1	3/31/20		
Isophorone	< 0.08	1	3/31/20		
2,4-Dinitrotoluene	< 0.4	1	3/31/20		
2,6-Dinitrotoluene	< 0.4	1	3/31/20		
Benzidine (estimated)	< 0.4	1	3/31/20		



LABORATORY REPORT

EAI ID#: 208295

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Client Sample ID:	Comp 64,65,66,67 (0-1.5)	Date Prepared:	3/30/20		
Lab Sample ID:	208295.08	Units:	mg/kg		
Matrix:	soil	Method:	8270D		
Date Sampled:	3/26/20	Analyst:	JMR		
Date Received:	3/27/20	Dilution Factor	Date Analyzed	TEF	TEQ
3,3'-Dichlorobenzidine	< 0.08	1	3/31/20		
Pyridine	< 0.4	1	3/31/20		
Azobenzene	< 0.08	1	3/31/20		
Carbazole	< 0.08	1	3/31/20		
Dimethylphthalate	< 0.08	1	3/31/20		
Diethylphthalate	< 0.4	1	3/31/20		
Di-n-butylphthalate	< 0.4	1	3/31/20		
Butylbenzylphthalate	< 0.4	1	3/31/20		
bis(2-Ethylhexyl)phthalate	< 0.4	1	3/31/20		
Di-n-octylphthalate	< 0.4	1	3/31/20		
Dibenzofuran	< 0.08	1	3/31/20		
Naphthalene	0.0094	1	3/31/20		
2-Methylnaphthalene	0.0087	1	3/31/20		
1-Methylnaphthalene	< 0.008	1	3/31/20		
Acenaphthylene	0.015	1	3/31/20		
Acenaphthene	< 0.008	1	3/31/20		
Fluorene	< 0.008	1	3/31/20		
Phenanthrene	0.026	1	3/31/20		
Anthracene	< 0.008	1	3/31/20		
Fluoranthene	0.066	1	3/31/20		
Pyrene	0.063	1	3/31/20		
Benzo[a]anthracene	0.039	1	3/31/20	0.1	.0039
Chrysene	0.038	1	3/31/20	0.001	.000038
Benzo[b]fluoranthene	0.085	1	3/31/20	0.1	.0085
Benzo[k]fluoranthene	0.030	1	3/31/20	0.01	.0003
Benzo[a]pyrene	0.052	1	3/31/20	1	.052
Indeno[1,2,3-cd]pyrene	0.035	1	3/31/20	0.1	.0035
Dibenz[a,h]anthracene	< 0.008	1	3/31/20	1	< .008
Benzo[g,h,i]perylene	0.029	1	3/31/20		
n-Decane	< 0.4	1	3/31/20		
n-Octadecane	< 0.4	1	3/31/20		
2-Fluorophenol (surr)	64 %R		3/31/20		
Phenol-d6 (surr)	75 %R		3/31/20		
2,4,6-Tribromophenol (surr)	88 %R		3/31/20		
Nitrobenzene-D5 (surr)	71 %R		3/31/20		
2-Fluorobiphenyl (surr)	76 %R		3/31/20		
p-Terphenyl-D14 (surr)	69 %R		3/31/20		

TEF: Toxicity Equivalent Factor TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

2,6-Dinitrotoluene results are verified from a concentration range of 0.2mg/kg to 0.4mg/kg. n-Nitroso-di-n-propylamine results are verified from a concentration range of 0.04mg/kg to 0.08mg/kg. Analyte detections within these ranges are estimated and qualified with a J value.



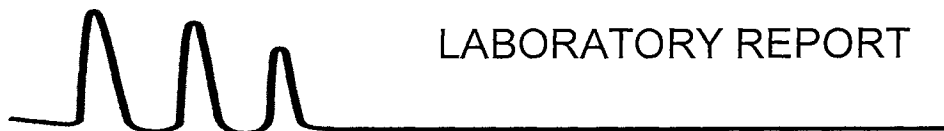
LABORATORY REPORT

EAI ID#: 208295

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Client Sample ID:	Comp 56,57,58,59 (0-1)	Date Prepared:		3/30/20	
Lab Sample ID:	208295.09	Units:		mg/kg	
Matrix:	soil	Method:		8270D	
Date Sampled:	3/26/20	Analyst:		JMR	
Date Received:	3/27/20	Dilution Factor	Date Analyzed	TEF	TEQ
alpha-Terpineol	< 0.4	1	3/31/20		
Phenol	< 0.08	1	3/31/20		
2-Chlorophenol	< 0.08	1	3/31/20		
2,4-Dichlorophenol	< 0.08	1	3/31/20		
2,4,5-Trichlorophenol	< 0.08	1	3/31/20		
2,4,6-Trichlorophenol	< 0.08	1	3/31/20		
Pentachlorophenol	< 0.4	1	3/31/20		
2-Nitrophenol	< 0.4	1	3/31/20		
4-Nitrophenol	< 0.4	1	3/31/20		
2,4-Dinitrophenol	< 0.7	1	3/31/20		
2-Methylphenol	< 0.08	1	3/31/20		
3/4-Methylphenol	< 0.08	1	3/31/20		
2,4-Dimethylphenol	< 0.4	1	3/31/20		
4-Chloro-3-methylphenol	< 0.08	1	3/31/20		
4,6-Dinitro-2-methylphenol	< 0.4	1	3/31/20		
Benzoic Acid	< 4	1	3/31/20		
N-Nitrosodimethylamine	< 0.08	1	3/31/20		
n-Nitroso-di-n-propylamine	< 0.08	1	3/31/20		
n-Nitrosodiphenylamine	< 0.08	1	3/31/20		
bis(2-Chloroethyl)ether	< 0.08	1	3/31/20		
bis(2-chloroisopropyl)ether	< 0.08	1	3/31/20		
bis(2-Chloroethoxy)methane	< 0.08	1	3/31/20		
1,3-Dichlorobenzene	< 0.08	1	3/31/20		
Acetophenone	< 0.7	1	3/31/20		
1,4-Dichlorobenzene	< 0.08	1	3/31/20		
1,2-Dichlorobenzene	< 0.08	1	3/31/20		
1,2,4-Trichlorobenzene	< 0.08	1	3/31/20		
2-Chloronaphthalene	< 0.08	1	3/31/20		
4-Chlorophenyl-phenylether	< 0.08	1	3/31/20		
4-Bromophenyl-phenylether	< 0.08	1	3/31/20		
Hexachloroethane	< 0.08	1	3/31/20		
Hexachlorobutadiene	< 0.08	1	3/31/20		
Hexachlorocyclopentadiene	< 0.4	1	3/31/20		
Hexachlorobenzene	< 0.08	1	3/31/20		
4-Chloroaniline	< 0.08	1	3/31/20		
2,3-Dichloroaniline	< 0.08	1	3/31/20		
2-Nitroaniline	< 0.4	1	3/31/20		
3-Nitroaniline	< 0.4	1	3/31/20		
4-Nitroaniline	< 0.4	1	3/31/20		
Aniline	< 0.08	1	3/31/20		
Benzyl alcohol	< 0.7	1	3/31/20		
Nitrobenzene	< 0.08	1	3/31/20		
Isophorone	< 0.08	1	3/31/20		
2,4-Dinitrotoluene	< 0.4	1	3/31/20		
2,6-Dinitrotoluene	< 0.4	1	3/31/20		
Benzidine (estimated)	< 0.4	1	3/31/20		



LABORATORY REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

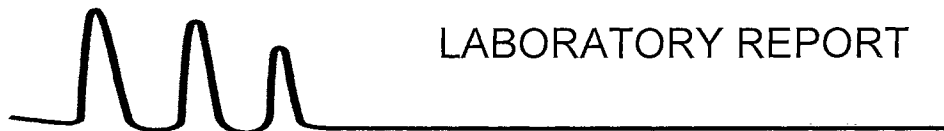
Client Designation: BBP-3B | 58369.00

Client Sample ID:	Comp 56,57,58,59 (0-1)	Date Prepared:		3/30/20	
Lab Sample ID:	208295.09	Units:		mg/kg	
Matrix:	soil	Method:		8270D	
Date Sampled:	3/26/20	Analyst:		JMR	
Date Received:	3/27/20	Dilution Factor	Date Analyzed	TEF	TEQ
3,3'-Dichlorobenzidine	< 0.08	1	3/31/20		
Pyridine	< 0.4	1	3/31/20		
Azobenzene	< 0.08	1	3/31/20		
Carbazole	< 0.08	1	3/31/20		
Dimethylphthalate	< 0.08	1	3/31/20		
Diethylphthalate	< 0.4	1	3/31/20		
Di-n-butylphthalate	< 0.4	1	3/31/20		
Butylbenzylphthalate	< 0.4	1	3/31/20		
bis(2-Ethylhexyl)phthalate	< 0.4	1	3/31/20		
Di-n-octylphthalate	< 0.4	1	3/31/20		
Dibenzofuran	< 0.08	1	3/31/20		
Naphthalene	0.013	1	3/31/20		
2-Methylnaphthalene	0.014	1	3/31/20		
1-Methylnaphthalene	0.011	1	3/31/20		
Acenaphthylene	0.021	1	3/31/20		
Acenaphthene	< 0.007	1	3/31/20		
Fluorene	< 0.007	1	3/31/20		
Phenanthrene	0.069	1	3/31/20		
Anthracene	0.016	1	3/31/20		
Fluoranthene	0.20	1	3/31/20		
Pyrene	0.19	1	3/31/20		
Benzo[a]anthracene	0.096	1	3/31/20	0.1	.0096
Chrysene	0.093	1	3/31/20	0.001	.000093
Benzo[b]fluoranthene	0.31	1	3/31/20	0.1	.031
Benzo[k]fluoranthene	0.10	1	3/31/20	0.01	.001
Benzo[a]pyrene	0.19	1	3/31/20	1	.19
Indeno[1,2,3-cd]pyrene	0.17	1	3/31/20	0.1	.017
Dibenz[a,h]anthracene	0.012	1	3/31/20	1	.012
Benzo[g,h,i]perylene	0.14	1	3/31/20		
n-Decane	< 0.4	1	3/31/20		
n-Octadecane	< 0.4	1	3/31/20		
2-Fluorophenol (surr)	65 %R		3/31/20		
Phenol-d6 (surr)	75 %R		3/31/20		
2,4,6-Tribromophenol (surr)	92 %R		3/31/20		
Nitrobenzene-D5 (surr)	72 %R		3/31/20		
2-Fluorobiphenyl (surr)	77 %R		3/31/20		
p-Terphenyl-D14 (surr)	74 %R		3/31/20		

TEF: Toxicity Equivalent Factor TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

2,6-Dinitrotoluene results are verified from a concentration range of 0.2mg/kg to 0.4mg/kg. n-Nitroso-di-n-propylamine results are verified from a concentration range of 0.04mg/kg to 0.08mg/kg. Analyte detections within these ranges are estimated and qualified with a J value.



LABORATORY REPORT

EAI ID#: 208295

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Client Sample ID:	Comp 52,53,54,55 (0-1)	Date Prepared:	3/30/20
Lab Sample ID:	208295.1	Units:	mg/kg
Matrix:	soil	Method:	8270D
Date Sampled:	3/26/20	Analyst:	JMR
Date Received:	3/27/20	Dilution Factor	Date Analyzed
			TEF
			TEQ
alpha-Terpineol	< 0.4	1	3/31/20
Phenol	< 0.08	1	3/31/20
2-Chlorophenol	< 0.08	1	3/31/20
2,4-Dichlorophenol	< 0.08	1	3/31/20
2,4,5-Trichlorophenol	< 0.08	1	3/31/20
2,4,6-Trichlorophenol	< 0.08	1	3/31/20
Pentachlorophenol	< 0.4	1	3/31/20
2-Nitrophenol	< 0.4	1	3/31/20
4-Nitrophenol	< 0.4	1	3/31/20
2,4-Dinitrophenol	< 0.8	1	3/31/20
2-Methylphenol	< 0.08	1	3/31/20
3/4-Methylphenol	< 0.08	1	3/31/20
2,4-Dimethylphenol	< 0.4	1	3/31/20
4-Chloro-3-methylphenol	< 0.08	1	3/31/20
4,6-Dinitro-2-methylphenol	< 0.4	1	3/31/20
Benzoic Acid	< 4	1	3/31/20
N-Nitrosodimethylamine	< 0.08	1	3/31/20
n-Nitroso-di-n-propylamine	< 0.08	1	3/31/20
n-Nitrosodiphenylamine	< 0.08	1	3/31/20
bis(2-Chloroethyl)ether	< 0.08	1	3/31/20
bis(2-chloroisopropyl)ether	< 0.08	1	3/31/20
bis(2-Chloroethoxy)methane	< 0.08	1	3/31/20
1,3-Dichlorobenzene	< 0.08	1	3/31/20
Acetophenone	< 0.8	1	3/31/20
1,4-Dichlorobenzene	< 0.08	1	3/31/20
1,2-Dichlorobenzene	< 0.08	1	3/31/20
1,2,4-Trichlorobenzene	< 0.08	1	3/31/20
2-Chloronaphthalene	< 0.08	1	3/31/20
4-Chlorophenyl-phenylether	< 0.08	1	3/31/20
4-Bromophenyl-phenylether	< 0.08	1	3/31/20
Hexachloroethane	< 0.08	1	3/31/20
Hexachlorobutadiene	< 0.08	1	3/31/20
Hexachlorocyclopentadiene	< 0.4	1	3/31/20
Hexachlorobenzene	< 0.08	1	3/31/20
4-Chloroaniline	< 0.08	1	3/31/20
2,3-Dichloroaniline	< 0.08	1	3/31/20
2-Nitroaniline	< 0.4	1	3/31/20
3-Nitroaniline	< 0.4	1	3/31/20
4-Nitroaniline	< 0.4	1	3/31/20
Aniline	< 0.08	1	3/31/20
Benzyl alcohol	< 0.8	1	3/31/20
Nitrobenzene	< 0.08	1	3/31/20
Isophorone	< 0.08	1	3/31/20
2,4-Dinitrotoluene	< 0.4	1	3/31/20
2,6-Dinitrotoluene	< 0.4	1	3/31/20
Benzidine (estimated)	< 0.4	1	3/31/20



LABORATORY REPORT

EAI ID#: 208295

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Client Sample ID:	Comp 52,53,54,55 (0-1)	Date Prepared:	3/30/20			
Lab Sample ID:	208295.1	Units:	mg/kg			
Matrix:	soil	Method:	8270D			
Date Sampled:	3/26/20	Analyst:	JMR			
Date Received:	3/27/20	Dilution Factor	Date Analyzed	TEF	TEQ	
3,3'-Dichlorobenzidine	< 0.08	1	3/31/20			
Pyridine	< 0.4	1	3/31/20			
Azobenzene	< 0.08	1	3/31/20			
Carbazole	< 0.08	1	3/31/20			
Dimethylphthalate	< 0.08	1	3/31/20			
Diethylphthalate	< 0.4	1	3/31/20			
Di-n-butylphthalate	< 0.4	1	3/31/20			
Butylbenzylphthalate	< 0.4	1	3/31/20			
bis(2-Ethylhexyl)phthalate	< 0.4	1	3/31/20			
Di-n-octylphthalate	< 0.4	1	3/31/20			
Dibenzofuran	< 0.08	1	3/31/20			
Naphthalene	0.026	1	3/31/20			
2-Methylnaphthalene	0.028	1	3/31/20			
1-Methylnaphthalene	0.019	1	3/31/20			
Acenaphthylene	0.048	1	3/31/20			
Acenaphthene	< 0.008	1	3/31/20			
Fluorene	0.016	1	3/31/20			
Phenanthrene	0.12	1	3/31/20			
Anthracene	0.043	1	3/31/20			
Fluoranthene	0.33	1	3/31/20			
Pyrene	0.31	1	3/31/20			
Benzo[a]anthracene	0.17	1	3/31/20	0.1	.017	
Chrysene	0.17	1	3/31/20	0.001	.00017	
Benzo[b]fluoranthene	0.43	1	3/31/20	0.1	.043	
Benzo[k]fluoranthene	0.14	1	3/31/20	0.01	.0014	
Benzo[a]pyrene	0.28	1	3/31/20	1	.28	
Indeno[1,2,3-cd]pyrene	0.21	1	3/31/20	0.1	.021	
Dibenz[a,h]anthracene	0.019	1	3/31/20	1	.019	
Benzo[g,h,i]perylene	0.18	1	3/31/20			
n-Decane	< 0.4	1	3/31/20			
n-Octadecane	< 0.4	1	3/31/20			
2-Fluorophenol (surr)	64 %R		3/31/20			
Phenol-d6 (surr)	74 %R		3/31/20			
2,4,6-Tribromophenol (surr)	89 %R		3/31/20			
Nitrobenzene-D5 (surr)	71 %R		3/31/20			
2-Fluorobiphenyl (surr)	75 %R		3/31/20			
p-Terphenyl-D14 (surr)	70 %R		3/31/20			

TEF: Toxicity Equivalent Factor TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

2,6-Dinitrotoluene results are verified from a concentration range of 0.2mg/kg to 0.4mg/kg. n-Nitroso-di-n-propylamine results are verified from a concentration range of 0.04mg/kg to 0.08mg/kg. Analyte detections within these ranges are estimated and qualified with a J value.



LABORATORY REPORT

EAI ID#: 208295

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Client Sample ID:	Comp 48,49,50,51 (0-1)	Date Prepared:	3/30/20
Lab Sample ID:	208295.11	Units:	mg/kg
Matrix:	soil	Method:	8270D
Date Sampled:	3/26/20	Analyst:	JMR
Date Received:	3/27/20	Dilution Factor	
		Date Analyzed	TEF TEQ
alpha-Terpineol	< 0.4	1	3/31/20
Phenol	< 0.08	1	3/31/20
2-Chlorophenol	< 0.08	1	3/31/20
2,4-Dichlorophenol	< 0.08	1	3/31/20
2,4,5-Trichlorophenol	< 0.08	1	3/31/20
2,4,6-Trichlorophenol	< 0.08	1	3/31/20
Pentachlorophenol	< 0.4	1	3/31/20
2-Nitrophenol	< 0.4	1	3/31/20
4-Nitrophenol	< 0.4	1	3/31/20
2,4-Dinitrophenol	< 0.8	1	3/31/20
2-Methylphenol	< 0.08	1	3/31/20
3/4-Methylphenol	< 0.08	1	3/31/20
2,4-Dimethylphenol	< 0.4	1	3/31/20
4-Chloro-3-methylphenol	< 0.08	1	3/31/20
4,6-Dinitro-2-methylphenol	< 0.4	1	3/31/20
Benzoic Acid	< 4	1	3/31/20
N-Nitrosodimethylamine	< 0.08	1	3/31/20
n-Nitroso-di-n-propylamine	< 0.08	1	3/31/20
n-Nitrosodiphenylamine	< 0.08	1	3/31/20
bis(2-Chloroethyl)ether	< 0.08	1	3/31/20
bis(2-chloroisopropyl)ether	< 0.08	1	3/31/20
bis(2-Chloroethoxy)methane	< 0.08	1	3/31/20
1,3-Dichlorobenzene	< 0.08	1	3/31/20
Acetophenone	< 0.8	1	3/31/20
1,4-Dichlorobenzene	< 0.08	1	3/31/20
1,2-Dichlorobenzene	< 0.08	1	3/31/20
1,2,4-Trichlorobenzene	< 0.08	1	3/31/20
2-Chloronaphthalene	< 0.08	1	3/31/20
4-Chlorophenyl-phenylether	< 0.08	1	3/31/20
4-Bromophenyl-phenylether	< 0.08	1	3/31/20
Hexachloroethane	< 0.08	1	3/31/20
Hexachlorobutadiene	< 0.08	1	3/31/20
Hexachlorocyclopentadiene	< 0.4	1	3/31/20
Hexachlorobenzene	< 0.08	1	3/31/20
4-Chloroaniline	< 0.08	1	3/31/20
2,3-Dichloroaniline	< 0.08	1	3/31/20
2-Nitroaniline	< 0.4	1	3/31/20
3-Nitroaniline	< 0.4	1	3/31/20
4-Nitroaniline	< 0.4	1	3/31/20
Aniline	< 0.08	1	3/31/20
Benzyl alcohol	< 0.8	1	3/31/20
Nitrobenzene	< 0.08	1	3/31/20
Isophorone	< 0.08	1	3/31/20
2,4-Dinitrotoluene	< 0.4	1	3/31/20
2,6-Dinitrotoluene	< 0.4	1	3/31/20
Benzidine (estimated)	< 0.4	1	3/31/20



LABORATORY REPORT

EAI ID#: 208295

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Client Sample ID:	Comp 48,49,50,51 (0-1)	Date Prepared:		3/30/20	
Lab Sample ID:	208295.11	Units:		mg/kg	
Matrix:	soil	Method:		8270D	
Date Sampled:	3/26/20	Analyst:		JMR	
Date Received:	3/27/20	Dilution Factor	Date Analyzed	TEF	TEQ
3,3'-Dichlorobenzidine	< 0.08	1	3/31/20		
Pyridine	< 0.4	1	3/31/20		
Azobenzene	< 0.08	1	3/31/20		
Carbazole	< 0.08	1	3/31/20		
Dimethylphthalate	< 0.08	1	3/31/20		
Diethylphthalate	< 0.4	1	3/31/20		
Di-n-butylphthalate	< 0.4	1	3/31/20		
Butylbenzylphthalate	< 0.4	1	3/31/20		
bis(2-Ethylhexyl)phthalate	< 0.4	1	3/31/20		
Di-n-octylphthalate	< 0.4	1	3/31/20		
Dibenzofuran	< 0.08	1	3/31/20		
Naphthalene	< 0.008	1	3/31/20		
2-Methylnaphthalene	< 0.008	1	3/31/20		
1-Methylnaphthalene	< 0.008	1	3/31/20		
Acenaphthylene	< 0.008	1	3/31/20		
Acenaphthene	< 0.008	1	3/31/20		
Fluorene	< 0.008	1	3/31/20		
Phenanthrene	< 0.008	1	3/31/20		
Anthracene	< 0.008	1	3/31/20		
Fluoranthene	0.013	1	3/31/20		
Pyrene	0.010	1	3/31/20		
Benzo[a]anthracene	0.0096	1	3/31/20	0.1	.00096
Chrysene	< 0.008	1	3/31/20	0.001	< .00000
Benzo[b]fluoranthene	0.013	1	3/31/20	0.1	.0013
Benzo[k]fluoranthene	< 0.008	1	3/31/20	0.01	< .00008
Benzo[a]pyrene	0.0081	1	3/31/20	1	.0081
Indeno[1,2,3-cd]pyrene	< 0.008	1	3/31/20	0.1	< .0008
Dibenz[a,h]anthracene	< 0.008	1	3/31/20	1	< .008
Benzo[g,h,i]perylene	< 0.008	1	3/31/20		
n-Decane	< 0.4	1	3/31/20		
n-Octadecane	< 0.4	1	3/31/20		
2-Fluorophenol (surr)	61 %R		3/31/20		
Phenol-d6 (surr)	72 %R		3/31/20		
2,4,6-Tribromophenol (surr)	88 %R		3/31/20		
Nitrobenzene-D5 (surr)	68 %R		3/31/20		
2-Fluorobiphenyl (surr)	73 %R		3/31/20		
p-Terphenyl-D14 (surr)	68 %R		3/31/20		

TEF: Toxicity Equivalent Factor TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

2,6-Dinitrotoluene results are verified from a concentration range of 0.2mg/kg to 0.4mg/kg. n-Nitroso-di-n-propylamine results are verified from a concentration range of 0.04mg/kg to 0.08mg/kg. Analyte detections within these ranges are estimated and qualified with a J value.



LABORATORY REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Client Sample ID:	Comp 44,45,46,47 (0-1)	Date Prepared:	3/30/20
Lab Sample ID:	208295.12	Units:	mg/kg
Matrix:	soil	Method:	8270D
Date Sampled:	3/26/20	Analyst:	JMR
Date Received:	3/27/20	Dilution Factor	Date Analyzed
		TEF	TEQ
alpha-Terpineol	< 0.4	1	3/31/20
Phenol	< 0.08	1	3/31/20
2-Chlorophenol	< 0.08	1	3/31/20
2,4-Dichlorophenol	< 0.08	1	3/31/20
2,4,5-Trichlorophenol	< 0.08	1	3/31/20
2,4,6-Trichlorophenol	< 0.08	1	3/31/20
Pentachlorophenol	< 0.4	1	3/31/20
2-Nitrophenol	< 0.4	1	3/31/20
4-Nitrophenol	< 0.4	1	3/31/20
2,4-Dinitrophenol	< 0.8	1	3/31/20
2-Methylphenol	< 0.08	1	3/31/20
3/4-Methylphenol	< 0.08	1	3/31/20
2,4-Dimethylphenol	< 0.4	1	3/31/20
4-Chloro-3-methylphenol	< 0.08	1	3/31/20
4,6-Dinitro-2-methylphenol	< 0.4	1	3/31/20
Benzoic Acid	< 4	1	3/31/20
N-Nitrosodimethylamine	< 0.08	1	3/31/20
n-Nitroso-di-n-propylamine	< 0.08	1	3/31/20
n-Nitrosodiphenylamine	< 0.08	1	3/31/20
bis(2-Chloroethyl)ether	< 0.08	1	3/31/20
bis(2-chloroisopropyl)ether	< 0.08	1	3/31/20
bis(2-Chloroethoxy)methane	< 0.08	1	3/31/20
1,3-Dichlorobenzene	< 0.08	1	3/31/20
Acetophenone	< 0.8	1	3/31/20
1,4-Dichlorobenzene	< 0.08	1	3/31/20
1,2-Dichlorobenzene	< 0.08	1	3/31/20
1,2,4-Trichlorobenzene	< 0.08	1	3/31/20
2-Chloronaphthalene	< 0.08	1	3/31/20
4-Chlorophenyl-phenylether	< 0.08	1	3/31/20
4-Bromophenyl-phenylether	< 0.08	1	3/31/20
Hexachloroethane	< 0.08	1	3/31/20
Hexachlorobutadiene	< 0.08	1	3/31/20
Hexachlorocyclopentadiene	< 0.4	1	3/31/20
Hexachlorobenzene	< 0.08	1	3/31/20
4-Chloroaniline	< 0.08	1	3/31/20
2,3-Dichloroaniline	< 0.08	1	3/31/20
2-Nitroaniline	< 0.4	1	3/31/20
3-Nitroaniline	< 0.4	1	3/31/20
4-Nitroaniline	< 0.4	1	3/31/20
Aniline	< 0.08	1	3/31/20
Benzyl alcohol	< 0.8	1	3/31/20
Nitrobenzene	< 0.08	1	3/31/20
Isophorone	< 0.08	1	3/31/20
2,4-Dinitrotoluene	< 0.4	1	3/31/20
2,6-Dinitrotoluene	< 0.4	1	3/31/20
Benzidine (estimated)	< 0.4	1	3/31/20



LABORATORY REPORT

EAI ID#: 208295

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Client Sample ID:	Comp 44,45,46,47 (0-1)	Date Prepared:	3/30/20
Lab Sample ID:	208295.12	Units:	mg/kg
Matrix:	soil	Method:	8270D
Date Sampled:	3/26/20	Analyst:	JMR
Date Received:	3/27/20	Dilution Factor	Date Analyzed
		TEF	TEQ

3,3'-Dichlorobenzidine	< 0.08	1	3/31/20		
Pyridine	< 0.4	1	3/31/20		
Azobenzene	< 0.08	1	3/31/20		
Carbazole	< 0.08	1	3/31/20		
Dimethylphthalate	< 0.08	1	3/31/20		
Diethylphthalate	< 0.4	1	3/31/20		
Di-n-butylphthalate	< 0.4	1	3/31/20		
Butylbenzylphthalate	< 0.4	1	3/31/20		
bis(2-Ethylhexyl)phthalate	< 0.4	1	3/31/20		
Di-n-octylphthalate	< 0.4	1	3/31/20		
Dibenzofuran	< 0.08	1	3/31/20		
Naphthalene	0.012	1	3/31/20		
2-Methylnaphthalene	0.0097	1	3/31/20		
1-Methylnaphthalene	0.012	1	3/31/20		
Acenaphthylene	< 0.008	1	3/31/20		
Acenaphthene	0.051	1	3/31/20		
Fluorene	0.059	1	3/31/20		
Phenanthrene	0.50	1	3/31/20		
Anthracene	0.15	1	3/31/20		
Fluoranthene	0.60	1	3/31/20		
Pyrene	0.43	1	3/31/20		
Benzo[a]anthracene	0.29	1	3/31/20	0.1	.029
Chrysene	0.29	1	3/31/20	0.001	.00029
Benzo[b]fluoranthene	0.42	1	3/31/20	0.1	.042
Benzo[k]fluoranthene	0.14	1	3/31/20	0.01	.0014
Benzo[a]pyrene	0.28	1	3/31/20	1	.28
Indeno[1,2,3-cd]pyrene	0.079	1	3/31/20	0.1	.0079
Dibenz[a,h]anthracene	0.025	1	3/31/20	1	.025
Benzo[g,h,i]perylene	0.076	1	3/31/20		
n-Decane	< 0.4	1	3/31/20		
n-Octadecane	< 0.4	1	3/31/20		
2-Fluorophenol (surr)	65 %R		3/31/20		
Phenol-d6 (surr)	76 %R		3/31/20		
2,4,6-Tribromophenol (surr)	92 %R		3/31/20		
Nitrobenzene-D5 (surr)	72 %R		3/31/20		
2-Fluorobiphenyl (surr)	77 %R		3/31/20		
p-Terphenyl-D14 (surr)	73 %R		3/31/20		

TEF: Toxicity Equivalent Factor TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

2,6-Dinitrotoluene results are verified from a concentration range of 0.2mg/kg to 0.4mg/kg. n-Nitroso-di-n-propylamine results are verified from a concentration range of 0.04mg/kg to 0.08mg/kg. Analyte detections within these ranges are estimated and qualified with a J value.



LABORATORY REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Client Sample ID:	Comp 41,42,43 (0-1)	Date Prepared:	3/30/20
Lab Sample ID:	208295.13	Units:	mg/kg
Matrix:	soil	Method:	8270D
Date Sampled:	3/26/20	Analyst:	JMR
Date Received:	3/27/20		

		Dilution Factor	Date Analyzed	TEF	TEQ
alpha-Terpineol	< 0.4	1	3/31/20		
Phenol	< 0.08	1	3/31/20		
2-Chlorophenol	< 0.08	1	3/31/20		
2,4-Dichlorophenol	< 0.08	1	3/31/20		
2,4,5-Trichlorophenol	< 0.08	1	3/31/20		
2,4,6-Trichlorophenol	< 0.08	1	3/31/20		
Pentachlorophenol	< 0.4	1	3/31/20		
2-Nitrophenol	< 0.4	1	3/31/20		
4-Nitrophenol	< 0.4	1	3/31/20		
2,4-Dinitrophenol	< 0.8	1	3/31/20		
2-Methylphenol	< 0.08	1	3/31/20		
3/4-Methylphenol	< 0.08	1	3/31/20		
2,4-Dimethylphenol	< 0.4	1	3/31/20		
4-Chloro-3-methylphenol	< 0.08	1	3/31/20		
4,6-Dinitro-2-methylphenol	< 0.4	1	3/31/20		
Benzoic Acid	< 4	1	3/31/20		
N-Nitrosodimethylamine	< 0.08	1	3/31/20		
n-Nitroso-di-n-propylamine	< 0.08	1	3/31/20		
n-Nitrosodiphenylamine	< 0.08	1	3/31/20		
bis(2-Chloroethyl)ether	< 0.08	1	3/31/20		
bis(2-chloroisopropyl)ether	< 0.08	1	3/31/20		
bis(2-Chloroethoxy)methane	< 0.08	1	3/31/20		
1,3-Dichlorobenzene	< 0.08	1	3/31/20		
Acetophenone	< 0.8	1	3/31/20		
1,4-Dichlorobenzene	< 0.08	1	3/31/20		
1,2-Dichlorobenzene	< 0.08	1	3/31/20		
1,2,4-Trichlorobenzene	< 0.08	1	3/31/20		
2-Chloronaphthalene	< 0.08	1	3/31/20		
4-Chlorophenyl-phenylether	< 0.08	1	3/31/20		
4-Bromophenyl-phenylether	< 0.08	1	3/31/20		
Hexachloroethane	< 0.08	1	3/31/20		
Hexachlorobutadiene	< 0.08	1	3/31/20		
Hexachlorocyclopentadiene	< 0.4	1	3/31/20		
Hexachlorobenzene	< 0.08	1	3/31/20		
4-Chloroaniline	< 0.08	1	3/31/20		
2,3-Dichloroaniline	< 0.08	1	3/31/20		
2-Nitroaniline	< 0.4	1	3/31/20		
3-Nitroaniline	< 0.4	1	3/31/20		
4-Nitroaniline	< 0.4	1	3/31/20		
Aniline	< 0.08	1	3/31/20		
Benzyl alcohol	< 0.8	1	3/31/20		
Nitrobenzene	< 0.08	1	3/31/20		
Isophorone	< 0.08	1	3/31/20		
2,4-Dinitrotoluene	< 0.4	1	3/31/20		
2,6-Dinitrotoluene	< 0.4	1	3/31/20		
Benzidine (estimated)	< 0.4	1	3/31/20		



LABORATORY REPORT

EAI ID#: 208295

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Client Sample ID:	Comp 41,42,43 (0-1)	Date Prepared:		3/30/20	
Lab Sample ID:	208295.13	Units:		mg/kg	
Matrix:	soil	Method:		8270D	
Date Sampled:	3/26/20	Analyst:		JMR	
Date Received:	3/27/20	Dilution Factor	Date Analyzed	TEF	TEQ
3,3'-Dichlorobenzidine	< 0.08	1	3/31/20		
Pyridine	< 0.4	1	3/31/20		
Azobenzene	< 0.08	1	3/31/20		
Carbazole	< 0.08	1	3/31/20		
Dimethylphthalate	< 0.08	1	3/31/20		
Diethylphthalate	< 0.4	1	3/31/20		
Di-n-butylphthalate	< 0.4	1	3/31/20		
Butylbenzylphthalate	< 0.4	1	3/31/20		
bis(2-Ethylhexyl)phthalate	< 0.4	1	3/31/20		
Di-n-octylphthalate	< 0.4	1	3/31/20		
Dibenzofuran	< 0.08	1	3/31/20		
Naphthalene	< 0.008	1	3/31/20		
2-Methylnaphthalene	< 0.008	1	3/31/20		
1-Methylnaphthalene	< 0.008	1	3/31/20		
Acenaphthylene	< 0.008	1	3/31/20		
Acenaphthene	< 0.008	1	3/31/20		
Fluorene	< 0.008	1	3/31/20		
Phenanthrene	0.0095	1	3/31/20		
Anthracene	< 0.008	1	3/31/20		
Fluoranthene	0.016	1	3/31/20		
Pyrene	0.012	1	3/31/20		
Benzo[a]anthracene	0.010	1	3/31/20	0.1	.001
Chrysene	0.011	1	3/31/20	0.001	.000011
Benzo[b]fluoranthene	0.015	1	3/31/20	0.1	.0015
Benzo[k]fluoranthene	< 0.008	1	3/31/20	0.01	< .00008
Benzo[a]pyrene	0.0091	1	3/31/20	1	.0091
Indeno[1,2,3-cd]pyrene	< 0.008	1	3/31/20	0.1	< .0008
Dibenz[a,h]anthracene	< 0.008	1	3/31/20	1	< .008
Benzo[g,h,i]perylene	< 0.008	1	3/31/20		
n-Decane	< 0.4	1	3/31/20		
n-Octadecane	< 0.4	1	3/31/20		
2-Fluorophenol (surr)	64 %R		3/31/20		
Phenol-d6 (surr)	75 %R		3/31/20		
2,4,6-Tribromophenol (surr)	90 %R		3/31/20		
Nitrobenzene-D5 (surr)	71 %R		3/31/20		
2-Fluorobiphenyl (surr)	76 %R		3/31/20		
p-Terphenyl-D14 (surr)	72 %R		3/31/20		

TEF: Toxicity Equivalent Factor TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

2,6-Dinitrotoluene results are verified from a concentration range of 0.2mg/kg to 0.4mg/kg. n-Nitroso-di-n-propylamine results are verified from a concentration range of 0.04mg/kg to 0.08mg/kg. Analyte detections within these ranges are estimated and qualified with a J value.



LABORATORY REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Client Sample ID:	Comp 39,40 (0-3)	Date Prepared:		3/30/20
Lab Sample ID:	208295.14	Units:		mg/kg
Matrix:	soil	Method:		8270D
Date Sampled:	3/26/20	Analyst:		JMR
Date Received:	3/27/20	Dilution Factor	Date Analyzed	TEF
				TEQ
alpha-Terpineol	< 0.4	1	3/31/20	
Phenol	< 0.08	1	3/31/20	
2-Chlorophenol	< 0.08	1	3/31/20	
2,4-Dichlorophenol	< 0.08	1	3/31/20	
2,4,5-Trichlorophenol	< 0.08	1	3/31/20	
2,4,6-Trichlorophenol	< 0.08	1	3/31/20	
Pentachlorophenol	< 0.4	1	3/31/20	
2-Nitrophenol	< 0.4	1	3/31/20	
4-Nitrophenol	< 0.4	1	3/31/20	
2,4-Dinitrophenol	< 0.8	1	3/31/20	
2-Methylphenol	< 0.08	1	3/31/20	
3/4-Methylphenol	< 0.08	1	3/31/20	
2,4-Dimethylphenol	< 0.4	1	3/31/20	
4-Chloro-3-methylphenol	< 0.08	1	3/31/20	
4,6-Dinitro-2-methylphenol	< 0.4	1	3/31/20	
Benzoic Acid	< 4	1	3/31/20	
N-Nitrosodimethylamine	< 0.08	1	3/31/20	
n-Nitroso-di-n-propylamine	< 0.08	1	3/31/20	
n-Nitrosodiphenylamine	< 0.08	1	3/31/20	
bis(2-Chloroethyl)ether	< 0.08	1	3/31/20	
bis(2-chloroisopropyl)ether	< 0.08	1	3/31/20	
bis(2-Chloroethoxy)methane	< 0.08	1	3/31/20	
1,3-Dichlorobenzene	< 0.08	1	3/31/20	
Acetophenone	< 0.8	1	3/31/20	
1,4-Dichlorobenzene	< 0.08	1	3/31/20	
1,2-Dichlorobenzene	< 0.08	1	3/31/20	
1,2,4-Trichlorobenzene	< 0.08	1	3/31/20	
2-Chloronaphthalene	< 0.08	1	3/31/20	
4-Chlorophenyl-phenylether	< 0.08	1	3/31/20	
4-Bromophenyl-phenylether	< 0.08	1	3/31/20	
Hexachloroethane	< 0.08	1	3/31/20	
Hexachlorobutadiene	< 0.08	1	3/31/20	
Hexachlorocyclopentadiene	< 0.4	1	3/31/20	
Hexachlorobenzene	< 0.08	1	3/31/20	
4-Chloroaniline	< 0.08	1	3/31/20	
2,3-Dichloroaniline	< 0.08	1	3/31/20	
2-Nitroaniline	< 0.4	1	3/31/20	
3-Nitroaniline	< 0.4	1	3/31/20	
4-Nitroaniline	< 0.4	1	3/31/20	
Aniline	< 0.08	1	3/31/20	
Benzyl alcohol	< 0.8	1	3/31/20	
Nitrobenzene	< 0.08	1	3/31/20	
Isophorone	< 0.08	1	3/31/20	
2,4-Dinitrotoluene	< 0.4	1	3/31/20	
2,6-Dinitrotoluene	< 0.4	1	3/31/20	
Benzidine (estimated)	< 0.4	1	3/31/20	



LABORATORY REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Client Sample ID:	Comp 39,40 (0-3)	Date Prepared:		3/30/20	
Lab Sample ID:	208295.14	Units:		mg/kg	
Matrix:	soil	Method:		8270D	
Date Sampled:	3/26/20	Dilution Factor	Analyst:		JMR
Date Received:	3/27/20		Date Analyzed	TEF	TEQ
3,3'-Dichlorobenzidine	< 0.08	1	3/31/20		
Pyridine	< 0.4	1	3/31/20		
Azobenzene	< 0.08	1	3/31/20		
Carbazole	< 0.08	1	3/31/20		
Dimethylphthalate	< 0.08	1	3/31/20		
Diethylphthalate	< 0.4	1	3/31/20		
Di-n-butylphthalate	< 0.4	1	3/31/20		
Butylbenzylphthalate	< 0.4	1	3/31/20		
bis(2-Ethylhexyl)phthalate	< 0.4	1	3/31/20		
Di-n-octylphthalate	< 0.4	1	3/31/20		
Dibenzofuran	< 0.08	1	3/31/20		
Naphthalene	< 0.008	1	3/31/20		
2-Methylnaphthalene	< 0.008	1	3/31/20		
1-Methylnaphthalene	< 0.008	1	3/31/20		
Acenaphthylene	< 0.008	1	3/31/20		
Acenaphthene	< 0.008	1	3/31/20		
Fluorene	< 0.008	1	3/31/20		
Phenanthrene	0.0090	1	3/31/20		
Anthracene	< 0.008	1	3/31/20		
Fluoranthene	0.022	1	3/31/20		
Pyrene	0.017	1	3/31/20		
Benzo[a]anthracene	0.012	1	3/31/20	0.1	.0012
Chrysene	0.013	1	3/31/20	0.001	.000013
Benzo[b]fluoranthene	0.024	1	3/31/20	0.1	.0024
Benzo[k]fluoranthene	< 0.008	1	3/31/20	0.01	< .00008
Benzo[a]pyrene	0.014	1	3/31/20	1	.014
Indeno[1,2,3-cd]pyrene	< 0.008	1	3/31/20	0.1	< .0008
Dibenz[a,h]anthracene	< 0.008	1	3/31/20	1	< .008
Benzo[g,h,i]perylene	< 0.008	1	3/31/20		
n-Decane	< 0.4	1	3/31/20		
n-Octadecane	< 0.4	1	3/31/20		
2-Fluorophenol (surr)	67 %R		3/31/20		
Phenol-d6 (surr)	76 %R		3/31/20		
2,4,6-Tribromophenol (surr)	90 %R		3/31/20		
Nitrobenzene-D5 (surr)	75 %R		3/31/20		
2-Fluorobiphenyl (surr)	78 %R		3/31/20		
p-Terphenyl-D14 (surr)	73 %R		3/31/20		

TEF: Toxicity Equivalent Factor TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

2,6-Dinitrotoluene results are verified from a concentration range of 0.2mg/kg to 0.4mg/kg. n-Nitroso-di-n-propylamine results are verified from a concentration range of 0.04mg/kg to 0.08mg/kg. Analyte detections within these ranges are estimated and qualified with a J value.



QC REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Batch ID: 637211-57298/S033020ABN1

Client Designation: BBP-3B | 58369.00

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
alpha-Terpineol	< 0.34	1.3 (79 %R)	1.3 (80 %R) (1 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Phenol	< 0.07	2.3 (70 %R)	2.3 (69 %R) (1 RPD)	3/31/2020	mg/kg	15 - 130	30	8270D
2-Chlorophenol	< 0.07	2.4 (72 %R)	2.4 (71 %R) (2 RPD)	3/31/2020	mg/kg	30 - 130	30	8270D
2,4-Dichlorophenol	< 0.07	2.5 (76 %R)	2.5 (76 %R) (1 RPD)	3/31/2020	mg/kg	30 - 130	30	8270D
2,4,5-Trichlorophenol	< 0.07	2.8 (83 %R)	2.8 (83 %R) (0 RPD)	3/31/2020	mg/kg	30 - 130	30	8270D
2,4,6-Trichlorophenol	< 0.07	2.7 (80 %R)	2.7 (81 %R) (1 RPD)	3/31/2020	mg/kg	30 - 130	30	8270D
Pentachlorophenol	< 0.34	3.4 (102 %R)	3.3 (99 %R) (3 RPD)	3/31/2020	mg/kg	30 - 130	30	8270D
2-Nitrophenol	< 0.34	2.6 (79 %R)	2.6 (79 %R) (0 RPD)	3/31/2020	mg/kg	30 - 130	30	8270D
4-Nitrophenol	< 0.34	3.1 (93 %R)	3.0 (91 %R) (2 RPD)	3/31/2020	mg/kg	15 - 130	30	8270D
2,4-Dinitrophenol	< 0.7	3.2 (96 %R)	3.2 (96 %R) (1 RPD)	3/31/2020	mg/kg	15 - 130	30	8270D
2-Methylphenol	< 0.07	2.5 (75 %R)	2.5 (74 %R) (1 RPD)	3/31/2020	mg/kg	30 - 130	30	8270D
3/4-Methylphenol	< 0.07	2.6 (79 %R)	2.7 (80 %R) (0 RPD)	3/31/2020	mg/kg	30 - 130	30	8270D
2,4-Dimethylphenol	< 0.34	2.3 (68 %R)	2.3 (68 %R) (1 RPD)	3/31/2020	mg/kg	30 - 130	30	8270D
4-Chloro-3-methylphenol	< 0.07	2.7 (80 %R)	2.7 (81 %R) (1 RPD)	3/31/2020	mg/kg	30 - 130	30	8270D
4,6-Dinitro-2-methylphenol	< 0.34	3.3 (99 %R)	3.2 (97 %R) (3 RPD)	3/31/2020	mg/kg	30 - 130	30	8270D
Benzoic Acid	< 3.4	< 3.4 (71 %R)	< 3.4 (87 %R) (20 RPD)	3/31/2020	mg/kg	15 - 130	30	8270D
N-Nitrosodimethylamine	< 0.07	1.2 (71 %R)	1.2 (69 %R) (3 RPD)	3/31/2020	mg/kg	15 - 140	30	8270D
n-Nitroso-di-n-propylamine	< 0.07	1.3 (79 %R)	1.3 (78 %R) (1 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
n-Nitrosodiphenylamine	< 0.07	1.4 (84 %R)	1.4 (81 %R) (3 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
bis(2-Chloroethyl)ether	< 0.07	1.2 (74 %R)	1.2 (73 %R) (1 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
bis(2-chloroisopropyl)ether	< 0.07	1.2 (74 %R)	1.2 (73 %R) (2 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
bis(2-Chloroethoxy)methane	< 0.07	1.3 (77 %R)	1.3 (77 %R) (1 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
1,3-Dichlorobenzene	< 0.07	1.2 (70 %R)	1.2 (70 %R) (0 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Acetophenone	< 0.7	1.3 (76 %R)	1.3 (75 %R) (1 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
1,4-Dichlorobenzene	< 0.07	1.1 (69 %R)	1.1 (69 %R) (1 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
1,2-Dichlorobenzene	< 0.07	1.2 (72 %R)	1.2 (71 %R) (1 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
1,2,4-Trichlorobenzene	< 0.07	1.2 (73 %R)	1.2 (73 %R) (0 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
2-Chloronaphthalene	< 0.07	1.3 (77 %R)	1.3 (78 %R) (1 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
4-Chlorophenyl-phenylether	< 0.07	1.4 (82 %R)	1.4 (82 %R) (0 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
4-Bromophenyl-phenylether	< 0.07	1.4 (84 %R)	1.4 (82 %R) (2 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Hexachloroethane	< 0.07	1.2 (70 %R)	1.2 (69 %R) (0 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Hexachlorobutadiene	< 0.07	1.2 (73 %R)	1.2 (72 %R) (0 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Hexachlorocyclopentadiene	< 0.34	0.92 (55 %R)	0.90 (54 %R) (2 RPD)	3/31/2020	mg/kg	15 - 140	30	8270D
Hexachlorobenzene	< 0.07	1.4 (84 %R)	1.4 (82 %R) (3 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
4-Chloroaniline	< 0.07	1.3 (79 %R)	1.3 (81 %R) (2 RPD)	3/31/2020	mg/kg	15 - 140	30	8270D
2,3-Dichloroaniline	< 0.07	1.3 (79 %R)	1.3 (79 %R) (0 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
2-Nitroaniline	< 0.34	1.5 (87 %R)	1.4 (86 %R) (1 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
3-Nitroaniline	< 0.34	1.5 (88 %R)	1.4 (86 %R) (2 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
4-Nitroaniline	< 0.34	1.6 (93 %R)	1.5 (90 %R) (4 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Aniline	< 0.07	1.3 (76 %R)	1.2 (75 %R) (1 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Benzyl alcohol	< 0.7	1.3 (80 %R)	1.3 (80 %R) (0 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Nitrobenzene	< 0.07	1.2 (74 %R)	1.2 (73 %R) (1 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Isophorone	< 0.07	1.3 (78 %R)	1.3 (79 %R) (1 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
2,4-Dinitrotoluene	< 0.34	1.5 (90 %R)	1.5 (87 %R) (3 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
2,6-Dinitrotoluene	< 0.34	1.5 (87 %R)	1.4 (87 %R) (1 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Benzidine (estimated)	< 0.34	0.94 (57 %R)	0.77 (46 %R) (20 RPD)	3/31/2020	mg/kg	1 - 200	50	8270D



QC REPORT

EAI ID#: 208295

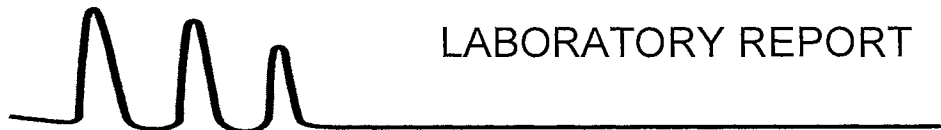
Client: Vanasse Hangen Brustlin, Inc. (VHB)

Batch ID: 637211-57298/S033020ABN1

Client Designation: BBP-3B | 58369.00

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
3,3'-Dichlorobenzidine	< 0.07	1.4 (87 %R)	1.4 (83 %R) (4 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Pyridine	< 0.34	0.95 (57 %R)	0.94 (57 %R) (1 RPD)	3/31/2020	mg/kg	15 - 140	30	8270D
Azobenzene	< 0.07	1.4 (82 %R)	1.3 (80 %R) (2 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Carbazole	< 0.07	1.5 (88 %R)	1.4 (85 %R) (3 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Dimethylphthalate	< 0.07	1.4 (84 %R)	1.4 (83 %R) (1 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Diethylphthalate	< 0.34	1.5 (91 %R)	1.5 (89 %R) (3 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Di-n-butylphthalate	< 0.34	1.6 (94 %R)	1.5 (92 %R) (2 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Butylbenzylphthalate	< 0.34	1.5 (93 %R)	1.5 (91 %R) (2 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
bis(2-Ethylhexyl)phthalate	< 0.34	1.6 (94 %R)	1.5 (92 %R) (2 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Di-n-octylphthalate	< 0.34	1.6 (95 %R)	1.6 (94 %R) (2 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Dibenzofuran	< 0.07	1.3 (80 %R)	1.3 (80 %R) (0 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Naphthalene	< 0.007	1.2 (75 %R)	1.2 (74 %R) (1 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
2-Methylnaphthalene	< 0.007	1.3 (78 %R)	1.3 (79 %R) (1 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
1-Methylnaphthalene	< 0.007	1.3 (79 %R)	1.3 (80 %R) (1 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Acenaphthylene	< 0.007	1.3 (76 %R)	1.3 (76 %R) (0 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Acenaphthene	< 0.007	1.3 (79 %R)	1.3 (79 %R) (0 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Fluorene	< 0.007	1.3 (79 %R)	1.3 (79 %R) (0 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Phenanthrene	< 0.007	1.3 (81 %R)	1.3 (79 %R) (2 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Anthracene	< 0.007	1.4 (82 %R)	1.3 (80 %R) (2 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Fluoranthene	< 0.007	1.3 (81 %R)	1.3 (79 %R) (2 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Pyrene	< 0.007	1.3 (80 %R)	1.3 (78 %R) (3 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Benzo[a]anthracene	< 0.007	1.3 (80 %R)	1.3 (78 %R) (3 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Chrysene	< 0.007	1.4 (83 %R)	1.4 (82 %R) (1 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Benzo[b]fluoranthene	< 0.007	1.4 (82 %R)	1.3 (80 %R) (2 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Benzo[k]fluoranthene	< 0.007	1.4 (82 %R)	1.3 (80 %R) (3 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Benzo[a]pyrene	< 0.007	1.4 (84 %R)	1.4 (82 %R) (2 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Indeno[1,2,3-cd]pyrene	< 0.007	1.5 (88 %R)	1.4 (85 %R) (4 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Dibenz[a,h]anthracene	< 0.007	1.5 (87 %R)	1.4 (84 %R) (3 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
Benzo[g,h,i]perylene	< 0.007	1.4 (84 %R)	1.4 (82 %R) (3 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
n-Decane	< 0.34	1.0 (63 %R)	1.0 (62 %R) (0 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
n-Octadecane	< 0.34	1.4 (85 %R)	1.4 (84 %R) (1 RPD)	3/31/2020	mg/kg	40 - 140	30	8270D
2-Fluorophenol (surr)	59 %R	68 %R	66 %R	3/31/2020	mg/kg	30 - 130	30	8270D
Phenol-d6 (surr)	67 %R	76 %R	75 %R	3/31/2020	mg/kg	30 - 130	30	8270D
2,4,6-Tribromophenol (surr)	87 %R	94 %R	91 %R	3/31/2020	mg/kg	30 - 130	30	8270D
Nitrobenzene-D5 (surr)	66 %R	77 %R	75 %R	3/31/2020	mg/kg	30 - 130	30	8270D
2-Fluorobiphenyl (surr)	70 %R	78 %R	77 %R	3/31/2020	mg/kg	30 - 130	30	8270D
p-Terphenyl-D14 (surr)	84 %R	88 %R	86 %R	3/31/2020	mg/kg	30 - 130	30	8270D

Samples were extracted and analyzed within holding time limits. Instrumentation was calibrated in accordance with the method requirements. The method blanks were free of contamination at the reporting limits. Sample surrogate recoveries met the above stated criteria. The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria. There were no exceptions in the analyses, unless noted. *If Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.



LABORATORY REPORT

EAI ID#: 208295

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Sample ID:	Comp 23,24,25,26 (0-1)	Comp 27,28,29,30 (0-1)	Comp 31,32,33,34 (0-1)	Comp 35,36,37,38 (0-1)	Comp 72,73,74,75 (0-1.5)	Comp 68,69,70,71 (0-1.5)	Comp 60,61,62,63 (0-1)
Lab Sample ID:	208295.01	208295.02	208295.03	208295.04	208295.05	208295.06	208295.07
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	3/25/20	3/25/20	3/25/20	3/25/20	3/25/20	3/26/20	3/26/20
Date Received:	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	3/30/20	3/30/20	3/30/20	3/30/20	3/30/20	3/30/20	3/31/20
Date of Analysis:	3/30/20	3/30/20	3/30/20	3/30/20	3/30/20	3/30/20	4/1/20
Analyst:	JMR	JMR	JMR	JMR	JMR	JMR	JMR
Method:	8015CDRO	8015CDRO	8015CDRO	8015CDRO	8015CDRO	8015CDRO	8015CDRO
Dilution Factor:	1	1	1	1	1	1	1
DRO (Diesel Range C10-C28)	12	< 7	< 7	30	8	< 8	20
p-Terphenyl-D14 (surr)	77 %R	73 %R	81 %R	91 %R	74 %R	68 %R	91 %R



LABORATORY REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Sample ID:	Comp 64,65,66,67 (0-1.5)	Comp 56,57,58,59 (0-1)	Comp 52,53,54,55 (0-1)	Comp 48,49,50,51 (0-1)	Comp 44,45,46,47 (0-1)	Comp 41,42,43 (0-1)	Comp 39,40 (0-3)
Lab Sample ID:	208295.08	208295.09	208295.1	208295.11	208295.12	208295.13	208295.14
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	3/26/20	3/26/20	3/26/20	3/26/20	3/26/20	3/26/20	3/26/20
Date Received:	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	3/30/20	3/30/20	3/30/20	3/30/20	3/30/20	3/30/20	3/30/20
Date of Analysis:	3/31/20	3/31/20	3/31/20	3/31/20	3/31/20	3/31/20	3/31/20
Analyst:	JMR	JMR	JMR	JMR	JMR	JMR	JMR
Method:	8015CDRO	8015CDRO	8015CDRO	8015CDRO	8015CDRO	8015CDRO	8015CDRO
Dilution Factor:	1	1	1	1	1	1	1
DRO (Diesel Range C10-C28)	8.6	9.7	11	< 8	14	< 8	18
p-Terphenyl-D14 (surr)	71 %R	73 %R	78 %R	59 %R	66 %R	61 %R	49 %R



QC REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Batch ID: 637211-51368/S033020DRO1

Client Designation: BBP-3B | 58369.00

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
DRO (Diesel Range C10-C28)	< 7	51 (70 %R)	53 (73 %R) (4 RPD)	3/30/2020	mg/kg	30 - 160	30	8015CDR
p-Terphenyl-D14 (surr)	82 %R	95 %R	99 %R	3/30/2020	% Rec	30 - 130		8015CDR

Samples were extracted and analyzed within holding time limits.

Instrumentation was calibrated in accordance with the method requirements.

The method blanks were free of contamination at the reporting limits.

Sample surrogate recoveries met the above stated criteria.

The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.

There were no exceptions in the analyses, unless noted.

*!! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.



LABORATORY REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Sample ID:	Comp 23,24,25,26 (0-1)	Comp 27,28,29,30 (0-1)	Comp 31,32,33,34 (0-1)	Comp 35,36,37,38 (0-1)	Comp 72,73,74,75 (0-1.5)	Comp 68,69,70,71 (0-1.5)	Comp 60,61,62,63 (0-1)
Lab Sample ID:	208295.01	208295.02	208295.03	208295.04	208295.05	208295.06	208295.07
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	3/25/20	3/25/20	3/25/20	3/25/20	3/25/20	3/26/20	3/26/20
Date Received:	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20
% Solid:	87.9	89.6	91.8	90.5	85	81.8	88.2
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	3/30/20	3/30/20	3/30/20	3/30/20	3/30/20	3/30/20	3/31/20
Date of Analysis:	3/31/20	3/31/20	3/31/20	3/31/20	3/31/20	3/31/20	4/1/20
Analyst:	MA	MA	MA	MA	MA	MA	MA
Extraction Method:	3540C	3540C	3540C	3540C	3540C	3540C	3540C
Analysis Method:	8082A	8082A	8082A	8082A	8082A	8082A	8082A
Dilution Factor:	1	1	1	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1260	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.023
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	99 %R	99 %R	95 %R	84 %R	95 %R	104 %R	104 %R
DCB (surr)	70 %R	87 %R	88 %R	74 %R	76 %R	94 %R	77 %R

Acid clean-up was performed on the samples and associated batch QC.



LABORATORY REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Sample ID:	Comp 64,65,66,67 (0-1.5)	Comp 56,57,58,59 (0-1)	Comp 52,53,54,55 (0-1)	Comp 48,49,50,51 (0-1)	Comp 44,45,46,47 (0-1)	Comp 41,42,43 (0-1)	Comp 39,40 (0-3)
Lab Sample ID:	208295.08	208295.09	208295.1	208295.11	208295.12	208295.13	208295.14
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	3/26/20	3/26/20	3/26/20	3/26/20	3/26/20	3/26/20	3/26/20
Date Received:	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20	3/27/20
% Solid:	85.6	88.4	84.2	82.7	88.2	82.1	82.9
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	3/31/20	3/31/20	3/31/20	3/31/20	3/31/20	3/31/20	3/31/20
Date of Analysis:	4/1/20	4/1/20	4/1/20	4/1/20	4/1/20	4/1/20	4/1/20
Analyst:	MA	MA	MA	MA	MA	MA	MA
Extraction Method:	3540C	3540C	3540C	3540C	3540C	3540C	3540C
Analysis Method:	8082A	8082A	8082A	8082A	8082A	8082A	8082A
Dilution Factor:	1	1	1	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1260	< 0.02	< 0.02	0.022	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	99 %R	116 %R	108 %R	102 %R	103 %R	103 %R	107 %R
DCB (surr)	67 %R	87 %R	74 %R	79 %R	73 %R	77 %R	91 %R

Acid clean-up was performed on the samples and associated batch QC.



QC REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Batch ID: 637211-57846/S033020PCB1

Client Designation: BBP-3B | 58369.00

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
PCB-1016	< 0.02	0.15 (111 %R)	0.14 (105 %R) (5 RPD)	3/31/2020	mg/kg	40 - 140	30	8082A
PCB-1221	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	3/31/2020	mg/kg			8082A
PCB-1232	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	3/31/2020	mg/kg			8082A
PCB-1242	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	3/31/2020	mg/kg			8082A
PCB-1248	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	3/31/2020	mg/kg			8082A
PCB-1254	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	3/31/2020	mg/kg			8082A
PCB-1260	< 0.02	0.15 (111 %R)	0.14 (105 %R) (6 RPD)	3/31/2020	mg/kg	40 - 140	30	8082A
PCB-1262	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	3/31/2020	mg/kg			8082A
PCB-1268	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	3/31/2020	mg/kg			8082A
TMX (surr)	101 %R	101 %R	99 %R	3/31/2020	% Rec	30 - 150	30	8082A
DCB (surr)	113 %R	119 %R	110 %R	3/31/2020	% Rec	30 - 150	30	8082A

Samples were extracted and analyzed within holding time limits.

Instrumentation was calibrated in accordance with the method requirements.

The method blanks were free of contamination at the reporting limits.

Sample surrogate recoveries met the above stated criteria.

The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.

There were no exceptions in the analyses, unless noted.

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.



LABORATORY REPORT

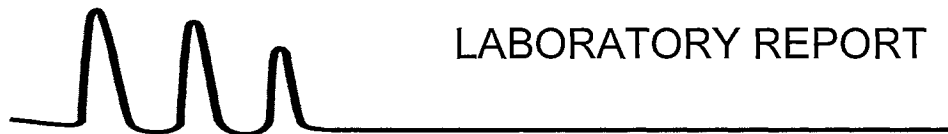
EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Sample ID:	Comp 23,24,25,26 (0 -1)	Comp 27,28,29,30 (0 -1)	Comp 31,32,33,34 (0 -1)	Comp 35,36,37,38 (0 -1)					
Lab Sample ID:	208295.01	208295.02	208295.03	208295.04					
Matrix:	soil	soil	soil	soil					
Date Sampled:	3/25/20	3/25/20	3/25/20	3/25/20					
Date Received:	3/27/20	3/27/20	3/27/20	3/27/20	Units	Analysis		Method	Analyst
						Date	Time		
pH	7.92	7.95	7.78	7.73	SU	03/28/20	10:50	9045	KJD
Ignitability	Pass	Pass	Pass	Pass	None	04/01/20	11:00	1030	ATA
Reactive Cyanide	< 1	< 1	< 1	< 1	mg/kg	03/31/20	10:00	7.3.3.2	ATA
Reactive Sulfide	< 10	< 10	< 10	< 10	mg/kg	03/31/20	10:00	7.3.4.2	ATA

Sample ID:	Comp 72,73,74,75 (0 -1.5)	Comp 68,69,70,71 (0 -1.5)	Comp 60,61,62,63 (0 -1)	Comp 64,65,66,67 (0 -1.5)					
Lab Sample ID:	208295.05	208295.06	208295.07	208295.08					
Matrix:	soil	soil	soil	soil					
Date Sampled:	3/25/20	3/26/20	3/26/20	3/26/20					
Date Received:	3/27/20	3/27/20	3/27/20	3/27/20	Units	Analysis		Method	Analyst
						Date	Time		
pH	7.27	6.94	7.76	7.35	SU	03/28/20	10:50	9045	KJD
Ignitability	Pass	Pass	Pass	Pass	None	04/01/20	11:00	1030	ATA
Reactive Cyanide	< 1	< 1	< 1	< 1	mg/kg	03/31/20	10:00	7.3.3.2	ATA
Reactive Sulfide	< 10	< 10	< 10	< 10	mg/kg	03/31/20	10:00	7.3.4.2	ATA



LABORATORY REPORT

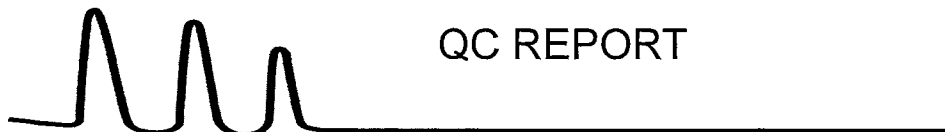
EAI ID#: 208295

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Sample ID:	Comp 56,57,58,59 (0-1)	Comp 52,53,54,55 (0-1)	Comp 48,49,50,51 (0-1)	Comp 44,45,46,47 (0-1)					
Lab Sample ID:	208295.09	208295.1	208295.11	208295.12					
Matrix:	soil	soil	soil	soil					
Date Sampled:	3/26/20	3/26/20	3/26/20	3/26/20					
Date Received:	3/27/20	3/27/20	3/27/20	3/27/20	Units	Analysis		Method	Analyst
pH	7.49	7.44	7.11	7.23	SU	03/28/20	10:50	9045	KJD
Ignitability	Pass	Pass	Pass	Pass	None	04/01/20	11:00	1030	ATA
Reactive Cyanide	< 1	< 1	< 1	< 1	mg/kg	03/31/20	10:00	7.3.3.2	ATA
Reactive Sulfide	< 10	< 10	< 10	< 10	mg/kg	03/31/20	10:00	7.3.4.2	ATA

Sample ID:	Comp 41,42,43 (0-1)	Comp 39,40 (0-3)							
Lab Sample ID:	208295.13	208295.14							
Matrix:	soil	soil							
Date Sampled:	3/26/20	3/26/20							
Date Received:	3/27/20	3/27/20			Units	Analysis		Method	Analyst
pH	7.18	7.28			SU	03/28/20	10:50	9045	KJD
Ignitability	Pass	Pass			None	04/01/20	11:00	1030	ATA
Reactive Cyanide	< 1	< 1			mg/kg	03/31/20	10:00	7.3.3.2	ATA
Reactive Sulfide	< 10	< 10			mg/kg	03/31/20	10:00	7.3.4.2	ATA



QC REPORT

EAI ID#: 208295

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
pH	N/A	6.03 (101 %R)	6.01 (100 %R)	SU	3/28/20	7.91 - 8.09	10	9045
Reactive Cyanide	< 1	8.9 (9 %R)	N/A	mg/kg	3/31/20	0 - 73		7.3.3.2
Reactive Sulfide	< 10	12 (60 %R)	N/A	mg/kg	3/31/20	10 - 160		7.3.4.2

Samples were analyzed within holding times unless noted on the sample results page.

Instrumentation was calibrated in accordance with the method requirements.

The method blanks were free of contamination at the reporting limits.

The associated matrix spikes and/or Laboratory Control Samples met the above stated criteria.

Exceptions to the above statements are flagged or noted above or on the QC Narrative page.

*! Flagged analyte recoveries deviated from the QA/QC limits.



LABORATORY REPORT

EAI ID#: 208295

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Sample ID:	Comp 23,24,25,26 (0-1)	Comp 27,28,29,30 (0-1)	Comp 31,32,33,34 (0-1)	Comp 35,36,37,38 (0-1)					
Lab Sample ID:	208295.01	208295.02	208295.03	208295.04					
Matrix:	soil	soil	soil	soil					
Date Sampled:	3/25/20	3/25/20	3/25/20	3/25/20	Analytical		Date of		
Date Received:	3/27/20	3/27/20	3/27/20	3/27/20	Matrix	Units	Analysis	Method	Analyst
Arsenic	3.8	3.8	3.2	4.2	SolTotDry	mg/kg	3/30/20	6020	DS
Barium	24	14	14	19	SolTotDry	mg/kg	3/30/20	6020	DS
Cadmium	< 0.5	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	3/30/20	6020	DS
Chromium	13	12	8.8	18	SolTotDry	mg/kg	3/30/20	6020	DS
Lead	5.7	4.2	4.8	10	SolTotDry	mg/kg	3/30/20	6020	DS
Mercury	< 0.1	< 0.1	< 0.1	< 0.1	SolTotDry	mg/kg	3/30/20	6020	DS
Selenium	< 0.5	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	3/30/20	6020	DS
Silver	< 0.5	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	3/30/20	6020	DS

Sample ID:	Comp 72,73,74,75 (0-1.5)	Comp 68,69,70,71 (0-1.5)	Comp 60,61,62,63 (0-1)	Comp 64,65,66,67 (0-1.5)					
Lab Sample ID:	208295.05	208295.06	208295.07	208295.08					
Matrix:	soil	soil	soil	soil					
Date Sampled:	3/25/20	3/26/20	3/26/20	3/26/20	Analytical		Date of		
Date Received:	3/27/20	3/27/20	3/27/20	3/27/20	Matrix	Units	Analysis	Method	Analyst
Arsenic	3.1	7.8	4.3	5.0	SolTotDry	mg/kg	3/30/20	6020	DS
Barium	50	110	44	100	SolTotDry	mg/kg	3/30/20	6020	DS
Cadmium	< 0.5	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	3/30/20	6020	DS
Chromium	15	29	17	29	SolTotDry	mg/kg	3/30/20	6020	DS
Lead	8.8	240	14	22	SolTotDry	mg/kg	3/30/20	6020	DS
Mercury	< 0.1	0.15	< 0.1	< 0.1	SolTotDry	mg/kg	3/30/20	6020	DS
Selenium	< 0.5	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	3/30/20	6020	DS
Silver	< 0.5	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	3/30/20	6020	DS



LABORATORY REPORT

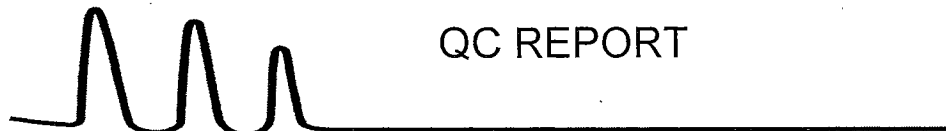
EAI ID#: 208295

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Sample ID:	Comp 56,57,58,59 (0-1)	Comp 52,53,54,55 (0-1)	Comp 48,49,50,51 (0-1)	Comp 44,45,46,47 (0-1)					
Lab Sample ID:	208295.09	208295.1	208295.11	208295.12					
Matrix:	soil	soil	soil	soil					
Date Sampled:	3/26/20	3/26/20	3/26/20	3/26/20	Analytical		Date of		
Date Received:	3/27/20	3/27/20	3/27/20	3/27/20	Matrix	Units	Analysis	Method	Analyst
Arsenic	2.7	4.8	5.5	4.0	SolTotDry	mg/kg	3/30/20	6020	DS
Barium	61	80	59	32	SolTotDry	mg/kg	3/30/20	6020	DS
Cadmium	< 0.5	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	3/30/20	6020	DS
Chromium	15	22	27	18	SolTotDry	mg/kg	3/30/20	6020	DS
Lead	17	26	12	7.1	SolTotDry	mg/kg	3/30/20	6020	DS
Mercury	< 0.1	< 0.1	< 0.1	< 0.1	SolTotDry	mg/kg	3/30/20	6020	DS
Selenium	< 0.5	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	3/30/20	6020	DS
Silver	< 0.5	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	3/30/20	6020	DS

Sample ID:	Comp 41,42,43 (0-1)	Comp 39,40 (0-3)							
Lab Sample ID:	208295.13	208295.14							
Matrix:	soil	soil							
Date Sampled:	3/26/20	3/26/20			Analytical		Date of		
Date Received:	3/27/20	3/27/20			Matrix	Units	Analysis	Method	Analyst
Arsenic	5.2	4.4			SolTotDry	mg/kg	3/30/20	6020	DS
Barium	68	39			SolTotDry	mg/kg	3/30/20	6020	DS
Cadmium	< 0.5	< 0.5			SolTotDry	mg/kg	3/30/20	6020	DS
Chromium	29	19			SolTotDry	mg/kg	3/30/20	6020	DS
Lead	9.6	9.8			SolTotDry	mg/kg	3/30/20	6020	DS
Mercury	< 0.1	< 0.1			SolTotDry	mg/kg	3/30/20	6020	DS
Selenium	< 0.5	< 0.5			SolTotDry	mg/kg	3/30/20	6020	DS
Silver	< 0.5	< 0.5			SolTotDry	mg/kg	3/30/20	6020	DS



QC REPORT

EAI ID#: 208295

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Arsenic	< 0.5	77 (96 %R)	NA	mg/kg	3/30/20	80 - 120	20	6020
Barium	< 0.5	74 (93 %R)	NA	mg/kg	3/30/20	80 - 120	20	6020
Cadmium	< 0.5	77 (96 %R)	NA	mg/kg	3/30/20	80 - 120	20	6020
Chromium	< 0.5	76 (95 %R)	NA	mg/kg	3/30/20	80 - 120	20	6020
Lead	< 0.5	73 (91 %R)	NA	mg/kg	3/30/20	80 - 120	20	6020
Mercury	< 0.1	0.74 (93 %R)	NA	mg/kg	3/30/20	80 - 120	20	6020
Selenium	< 0.5	75 (93 %R)	NA	mg/kg	3/30/20	80 - 120	20	6020
Silver	< 0.5	74 (92 %R)	NA	mg/kg	3/30/20	80 - 120	20	6020

Samples were analyzed within holding times unless noted on the sample results page.

Instrumentation was calibrated in accordance with the method requirements.

The method blanks were free of contamination at the reporting limits.

The associated matrix spikes and/or Laboratory Control Samples met the above stated criteria.

Exceptions to the above statements are flagged or noted above or on the QC Narrative page.

*// Flagged analyte recoveries deviated from the QA/QC limits.



Friday, April 03, 2020

Attn: Front Office
Eastern Analytical
25 Chenell Drive
Concord, NH 03301

Project ID: 208295
SDG ID: GCF58603
Sample ID#s: CF58603 - CF58616

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

Tel. (860) 645-1102

Fax (860) 645-0823

Sample Id Cross Reference

April 03, 2020

SDG I.D.: GCF58603

Project ID: 208295

Client Id	Lab Id	Matrix
COMP 23, 24, 25, 26 (0-1)	CF58603	SOIL
COMP 27, 28, 29, 30 (0-1)	CF58604	SOIL
COMP 31, 32, 33, 34 (0-1)	CF58605	SOIL
COMP 35, 36, 37, 38 (0-1)	CF58606	SOIL
COMP 72, 73, 74, 75 (0-1.5)	CF58607	SOIL
COMP 68, 69, 70, 71 (0-1.5)	CF58608	SOIL
COMP 60, 61, 62, 63 (0-1)	CF58609	SOIL
COMP 64, 65, 66, 67 (0-1.5)	CF58610	SOIL
COMP 56, 57, 58, 59 (0-1)	CF58611	SOIL
COMP 52, 53, 54, 55 (0-1)	CF58612	SOIL
COMP 48, 49, 50, 51 (0-1)	CF58613	SOIL
COMP 44, 45, 46, 47 (0-1)	CF58614	SOIL
COMP 41, 42, 43 (0-1)	CF58615	SOIL
COMP 39, 40 (0-3)	CF58616	SOIL



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 03, 2020

FOR: Attn: Front Office
Eastern Analytical
25 Chenell Drive
Concord, NH 03301

Sample Information

Matrix: SOIL
Location Code: EASTANAL
Rush Request: 72 Hour
P.O.#: 52207

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

03/25/20 10:20
03/31/20 10:37

Laboratory Data

SDG ID: GCF58603
Phoenix ID: CF58603

Project ID: 208295
Client ID: COMP 23, 24, 25, 26 (0-1)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		03/31/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/01/20	LL/A	SW3545A
Soil Extraction for Herbicide	Completed				03/31/20	J/D	SW8151A

Chlorinated Herbicides

2,4,5-T	ND	92	ug/Kg	10	04/01/20	JRB	SW8151A
2,4,5-TP (Silvex)	ND	92	ug/Kg	10	04/01/20	JRB	SW8151A
2,4-D	ND	180	ug/Kg	10	04/01/20	JRB	SW8151A
2,4-DB	ND	920	ug/Kg	10	04/01/20	JRB	SW8151A
Dalapon	ND	92	ug/Kg	10	04/01/20	JRB	SW8151A
Dicamba	ND	92	ug/Kg	10	04/01/20	JRB	SW8151A
Dichloroprop	ND	140	ug/Kg	10	04/01/20	JRB	SW8151A
Dinoseb	ND	92	ug/Kg	10	04/01/20	JRB	SW8151A
MCPA	ND	28000	ug/Kg	10	04/01/20	JRB	SW8151A
MCPP	ND	28000	ug/Kg	10	04/01/20	JRB	SW8151A

QA/QC Surrogates

% DCAA	77		%	10	04/01/20	JRB	30 - 150 %
% DCAA (Confirmation)	86		%	10	04/01/20	JRB	30 - 150 %

Pesticides

4,4'-DDD	ND	7.3	ug/Kg	2	04/02/20	CG	SW8081B
4,4'-DDE	ND	7.3	ug/Kg	2	04/02/20	CG	SW8081B
4,4'-DDT	ND	7.3	ug/Kg	2	04/02/20	CG	SW8081B
a-BHC	ND	7.3	ug/Kg	2	04/02/20	CG	SW8081B
Alachlor	ND	7.3	ug/Kg	2	04/02/20	CG	SW8081B
Aldrin	ND	3.7	ug/Kg	2	04/02/20	CG	SW8081B
b-BHC	ND	7.3	ug/Kg	2	04/02/20	CG	SW8081B
Chlordane	ND	37	ug/Kg	2	04/02/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	7.3	ug/Kg	2	04/02/20	CG	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	04/02/20	CG	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	04/02/20	CG	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	04/02/20	CG	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	04/02/20	CG	SW8081B
Endrin	ND	7.3	ug/Kg	2	04/02/20	CG	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	04/02/20	CG	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	04/02/20	CG	SW8081B
g-BHC	ND	1.5	ug/Kg	2	04/02/20	CG	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	04/02/20	CG	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	04/02/20	CG	SW8081B
Methoxychlor	ND	37	ug/Kg	2	04/02/20	CG	SW8081B
Toxaphene	ND	150	ug/Kg	2	04/02/20	CG	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	50		%	2	04/02/20	CG	30 - 150 %
% DCBP (Confirmation)	48		%	2	04/02/20	CG	30 - 150 %
% TCMX	38		%	2	04/02/20	CG	30 - 150 %
% TCMX (Confirmation)	39		%	2	04/02/20	CG	30 - 150 %

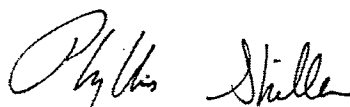
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

April 03, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 03, 2020

FOR: Attn: Front Office
Eastern Analytical
25 Chenell Drive
Concord, NH 03301

Sample Information

Matrix: SOIL
Location Code: EASTANAL
Rush Request: 72 Hour
P.O.#: 52207

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

03/25/20 11:10
03/31/20 10:37

Laboratory Data

SDG ID: GCF58603
Phoenix ID: CF58604

Project ID: 208295
Client ID: COMP 27, 28, 29, 30 (0-1)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		03/31/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/01/20	LL/A	SW3545A
Soil Extraction for Herbicide	Completed				03/31/20	J/D	SW8151A

Chlorinated Herbicides

2,4,5-T	ND	90	ug/Kg	10	04/01/20	JRB	SW8151A
2,4,5-TP (Silvex)	ND	90	ug/Kg	10	04/01/20	JRB	SW8151A
2,4-D	ND	180	ug/Kg	10	04/01/20	JRB	SW8151A
2,4-DB	ND	900	ug/Kg	10	04/01/20	JRB	SW8151A
Dalapon	ND	90	ug/Kg	10	04/01/20	JRB	SW8151A
Dicamba	ND	90	ug/Kg	10	04/01/20	JRB	SW8151A
Dichloroprop	ND	140	ug/Kg	10	04/01/20	JRB	SW8151A
Dinoseb	ND	90	ug/Kg	10	04/01/20	JRB	SW8151A
MCPA	ND	27000	ug/Kg	10	04/01/20	JRB	SW8151A
MCPP	ND	27000	ug/Kg	10	04/01/20	JRB	SW8151A

QA/QC Surrogates

% DCAA	78		%	10	04/01/20	JRB	30 - 150 %
% DCAA (Confirmation)	87		%	10	04/01/20	JRB	30 - 150 %

Pesticides

4,4'-DDD	ND	7.1	ug/Kg	2	04/02/20	CG	SW8081B
4,4'-DDE	ND	7.1	ug/Kg	2	04/02/20	CG	SW8081B
4,4'-DDT	ND	7.1	ug/Kg	2	04/02/20	CG	SW8081B
a-BHC	ND	7.1	ug/Kg	2	04/02/20	CG	SW8081B
Alachlor	ND	7.1	ug/Kg	2	04/02/20	CG	SW8081B
Aldrin	ND	3.6	ug/Kg	2	04/02/20	CG	SW8081B
b-BHC	ND	7.1	ug/Kg	2	04/02/20	CG	SW8081B
Chlordane	ND	36	ug/Kg	2	04/02/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	7.1	ug/Kg	2	04/02/20	CG	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	04/02/20	CG	SW8081B
Endosulfan I	ND	7.1	ug/Kg	2	04/02/20	CG	SW8081B
Endosulfan II	ND	7.1	ug/Kg	2	04/02/20	CG	SW8081B
Endosulfan sulfate	ND	7.1	ug/Kg	2	04/02/20	CG	SW8081B
Endrin	ND	7.1	ug/Kg	2	04/02/20	CG	SW8081B
Endrin aldehyde	ND	7.1	ug/Kg	2	04/02/20	CG	SW8081B
Endrin ketone	ND	7.1	ug/Kg	2	04/02/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	04/02/20	CG	SW8081B
Heptachlor	ND	7.1	ug/Kg	2	04/02/20	CG	SW8081B
Heptachlor epoxide	ND	7.1	ug/Kg	2	04/02/20	CG	SW8081B
Methoxychlor	ND	36	ug/Kg	2	04/02/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	04/02/20	CG	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	38		%	2	04/02/20	CG	30 - 150 %
% DCBP (Confirmation)	38		%	2	04/02/20	CG	30 - 150 %
% TCMX	37		%	2	04/02/20	CG	30 - 150 %
% TCMX (Confirmation)	36		%	2	04/02/20	CG	30 - 150 %

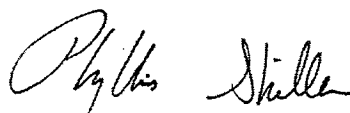
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

April 03, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 03, 2020

FOR: Attn: Front Office
Eastern Analytical
25 Chenell Drive
Concord, NH 03301

Sample Information

Matrix: SOIL
Location Code: EASTANAL
Rush Request: 72 Hour
P.O.#: 52207

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

03/25/20 11:55
03/31/20 10:37

Laboratory Data

SDG ID: GCF58603
Phoenix ID: CF58605

Project ID: 208295
Client ID: COMP 31, 32, 33, 34 (0-1)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	83		%		03/31/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				03/31/20	LL/A	SW3545A
Soil Extraction for Herbicide	Completed				03/31/20	J/D	SW8151A

Chlorinated Herbicides

2,4,5-T	ND	100	ug/Kg	10	04/01/20	JRB	SW8151A
2,4,5-TP (Silvex)	ND	100	ug/Kg	10	04/01/20	JRB	SW8151A
2,4-D	ND	200	ug/Kg	10	04/01/20	JRB	SW8151A
2,4-DB	ND	1000	ug/Kg	10	04/01/20	JRB	SW8151A
Dalapon	ND	100	ug/Kg	10	04/01/20	JRB	SW8151A
Dicamba	ND	100	ug/Kg	10	04/01/20	JRB	SW8151A
Dichloroprop	ND	150	ug/Kg	10	04/01/20	JRB	SW8151A
Dinoseb	ND	100	ug/Kg	10	04/01/20	JRB	SW8151A
MCPA	ND	30000	ug/Kg	10	04/01/20	JRB	SW8151A
MCPP	ND	30000	ug/Kg	10	04/01/20	JRB	SW8151A

QA/QC Surrogates

% DCAA	84		%	10	04/01/20	JRB	30 - 150 %
% DCAA (Confirmation)	93		%	10	04/01/20	JRB	30 - 150 %

Pesticides

4,4'-DDD	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
4,4'-DDE	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
4,4'-DDT	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
a-BHC	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
Alachlor	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
Aldrin	ND	3.9	ug/Kg	2	04/01/20	CG	SW8081B
b-BHC	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
Chlordane	ND	39	ug/Kg	2	04/01/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
Endrin	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
g-BHC	ND	1.6	ug/Kg	2	04/01/20	CG	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
Methoxychlor	ND	39	ug/Kg	2	04/01/20	CG	SW8081B
Toxaphene	ND	160	ug/Kg	2	04/01/20	CG	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	46		%	2	04/01/20	CG	30 - 150 %
% DCBP (Confirmation)	39		%	2	04/01/20	CG	30 - 150 %
% TCMX	40		%	2	04/01/20	CG	30 - 150 %
% TCMX (Confirmation)	40		%	2	04/01/20	CG	30 - 150 %

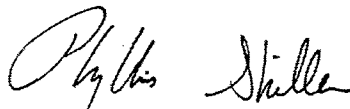
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

April 03, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 03, 2020

FOR: Attn: Front Office
Eastern Analytical
25 Chenell Drive
Concord, NH 03301

Sample Information

Matrix: SOIL
Location Code: EASTANAL
Rush Request: 72 Hour
P.O.#: 52207

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

03/25/20 12:50
03/31/20 10:37

Laboratory Data

SDG ID: GCF58603
Phoenix ID: CF58606

Project ID: 208295
Client ID: COMP 35, 36, 37, 38 (0-1)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		03/31/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				03/31/20	LL/A	SW3545A
Soil Extraction for Herbicide	Completed				03/31/20	J/D	SW8151A

Chlorinated Herbicides

2,4,5-T	ND	90	ug/Kg	10	04/01/20	JRB	SW8151A
2,4,5-TP (Silvex)	ND	90	ug/Kg	10	04/01/20	JRB	SW8151A
2,4-D	ND	180	ug/Kg	10	04/01/20	JRB	SW8151A
2,4-DB	ND	900	ug/Kg	10	04/01/20	JRB	SW8151A
Dalapon	ND	90	ug/Kg	10	04/01/20	JRB	SW8151A
Dicamba	ND	90	ug/Kg	10	04/01/20	JRB	SW8151A
Dichloroprop	ND	130	ug/Kg	10	04/01/20	JRB	SW8151A
Dinoseb	ND	90	ug/Kg	10	04/01/20	JRB	SW8151A
MCPA	ND	27000	ug/Kg	10	04/01/20	JRB	SW8151A
MCPP	ND	27000	ug/Kg	10	04/01/20	JRB	SW8151A

QA/QC Surrogates

% DCAA	82		%	10	04/01/20	JRB	30 - 150 %
% DCAA (Confirmation)	90		%	10	04/01/20	JRB	30 - 150 %

Pesticides

4,4'-DDD	ND	7.1	ug/Kg	2	04/01/20	CG	SW8081B
4,4'-DDE	ND	7.1	ug/Kg	2	04/01/20	CG	SW8081B
4,4'-DDT	ND	7.1	ug/Kg	2	04/01/20	CG	SW8081B
a-BHC	ND	7.1	ug/Kg	2	04/01/20	CG	SW8081B
Alachlor	ND	7.1	ug/Kg	2	04/01/20	CG	SW8081B
Aldrin	ND	3.6	ug/Kg	2	04/01/20	CG	SW8081B
b-BHC	ND	7.1	ug/Kg	2	04/01/20	CG	SW8081B
Chlordane	ND	36	ug/Kg	2	04/01/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	7.1	ug/Kg	2	04/01/20	CG	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan I	ND	7.1	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan II	ND	7.1	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan sulfate	ND	7.1	ug/Kg	2	04/01/20	CG	SW8081B
Endrin	ND	7.1	ug/Kg	2	04/01/20	CG	SW8081B
Endrin aldehyde	ND	7.1	ug/Kg	2	04/01/20	CG	SW8081B
Endrin ketone	ND	7.1	ug/Kg	2	04/01/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	04/01/20	CG	SW8081B
Heptachlor	ND	7.1	ug/Kg	2	04/01/20	CG	SW8081B
Heptachlor epoxide	ND	7.1	ug/Kg	2	04/01/20	CG	SW8081B
Methoxychlor	ND	36	ug/Kg	2	04/01/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	04/01/20	CG	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	39		%	2	04/01/20	CG	30 - 150 %
% DCBP (Confirmation)	33		%	2	04/01/20	CG	30 - 150 %
% TCMX	35		%	2	04/01/20	CG	30 - 150 %
% TCMX (Confirmation)	34		%	2	04/01/20	CG	30 - 150 %

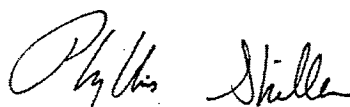
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

April 03, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 03, 2020

FOR: Attn: Front Office
Eastern Analytical
25 Chenell Drive
Concord, NH 03301

Sample Information

Matrix: SOIL
Location Code: EASTANAL
Rush Request: 72 Hour
P.O.#: 52207

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
03/25/20	14:50
03/31/20	10:37

Laboratory Data

SDG ID: GCF58603
Phoenix ID: CF58607

Project ID: 208295
Client ID: COMP 72, 73, 74, 75 (0-1.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		03/31/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				03/31/20	LL/A	SW3545A
Soil Extraction for Herbicide	Completed				03/31/20	J/D	SW8151A

Chlorinated Herbicides

2,4,5-T	ND	94	ug/Kg	10	04/01/20	JRB	SW8151A
2,4,5-TP (Silvex)	ND	94	ug/Kg	10	04/01/20	JRB	SW8151A
2,4-D	ND	190	ug/Kg	10	04/01/20	JRB	SW8151A
2,4-DB	ND	940	ug/Kg	10	04/01/20	JRB	SW8151A
Dalapon	ND	94	ug/Kg	10	04/01/20	JRB	SW8151A
Dicamba	ND	94	ug/Kg	10	04/01/20	JRB	SW8151A
Dichloroprop	ND	140	ug/Kg	10	04/01/20	JRB	SW8151A
Dinoseb	ND	94	ug/Kg	10	04/01/20	JRB	SW8151A
MCPA	ND	28000	ug/Kg	10	04/01/20	JRB	SW8151A
MCPP	ND	28000	ug/Kg	10	04/01/20	JRB	SW8151A

QA/QC Surrogates

% DCAA	83		%	10	04/01/20	JRB	30 - 150 %
% DCAA (Confirmation)	89		%	10	04/01/20	JRB	30 - 150 %

Pesticides

4,4'-DDD	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
4,4'-DDE	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
4,4'-DDT	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
a-BHC	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Alachlor	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Aldrin	ND	3.7	ug/Kg	2	04/01/20	CG	SW8081B
b-BHC	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Chlordane	ND	37	ug/Kg	2	04/01/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan I	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan II	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan sulfate	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Endrin	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Endrin aldehyde	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Endrin ketone	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
g-BHC	ND	1.5	ug/Kg	2	04/01/20	CG	SW8081B
Heptachlor	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Heptachlor epoxide	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Methoxychlor	ND	37	ug/Kg	2	04/01/20	CG	SW8081B
Toxaphene	ND	150	ug/Kg	2	04/01/20	CG	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	51		%	2	04/01/20	CG	30 - 150 %
% DCBP (Confirmation)	46		%	2	04/01/20	CG	30 - 150 %
% TCMX	48		%	2	04/01/20	CG	30 - 150 %
% TCMX (Confirmation)	49		%	2	04/01/20	CG	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

April 03, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 03, 2020

FOR: Attn: Front Office
Eastern Analytical
25 Chenell Drive
Concord, NH 03301

Sample Information

Matrix: SOIL
Location Code: EASTANAL
Rush Request: 72 Hour
P.O.#: 52207

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

03/26/20 7:50
03/31/20 10:37

Laboratory Data

SDG ID: GCF58603
Phoenix ID: CF58608

Project ID: 208295
Client ID: COMP 68, 69, 70, 71 (0-1.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	84		%		03/31/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				03/31/20	LL/A	SW3545A
Soil Extraction for Herbicide	Completed				03/31/20	J/D	SW8151A

Chlorinated Herbicides

2,4,5-T	ND	98	ug/Kg	10	04/01/20	JRB	SW8151A
2,4,5-TP (Silvex)	ND	98	ug/Kg	10	04/01/20	JRB	SW8151A
2,4-D	ND	200	ug/Kg	10	04/01/20	JRB	SW8151A
2,4-DB	ND	980	ug/Kg	10	04/01/20	JRB	SW8151A
Dalapon	ND	98	ug/Kg	10	04/01/20	JRB	SW8151A
Dicamba	ND	98	ug/Kg	10	04/01/20	JRB	SW8151A
Dichloroprop	ND	150	ug/Kg	10	04/01/20	JRB	SW8151A
Dinoseb	ND	98	ug/Kg	10	04/01/20	JRB	SW8151A
MCPA	ND	29000	ug/Kg	10	04/01/20	JRB	SW8151A
MCPP	ND	29000	ug/Kg	10	04/01/20	JRB	SW8151A

QA/QC Surrogates

% DCAA	80		%	10	04/01/20	JRB	30 - 150 %
% DCAA (Confirmation)	88		%	10	04/01/20	JRB	30 - 150 %

Pesticides

4,4'-DDD	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
4,4'-DDE	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
4,4'-DDT	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
a-BHC	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
Alachlor	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
Aldrin	ND	3.9	ug/Kg	2	04/01/20	CG	SW8081B
b-BHC	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
Chlordane	ND	39	ug/Kg	2	04/01/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
Endrin	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
g-BHC	ND	1.6	ug/Kg	2	04/01/20	CG	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	04/01/20	CG	SW8081B
Methoxychlor	ND	39	ug/Kg	2	04/01/20	CG	SW8081B
Toxaphene	ND	160	ug/Kg	2	04/01/20	CG	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	48		%	2	04/01/20	CG	30 - 150 %
% DCBP (Confirmation)	39		%	2	04/01/20	CG	30 - 150 %
% TCMX	37		%	2	04/01/20	CG	30 - 150 %
% TCMX (Confirmation)	37		%	2	04/01/20	CG	30 - 150 %

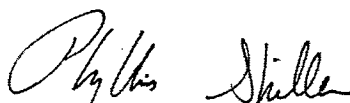
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Phyllis Shiller, Laboratory Director

April 03, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 03, 2020

FOR: Attn: Front Office
Eastern Analytical
25 Chenell Drive
Concord, NH 03301

Sample Information

Matrix: SOIL
Location Code: EASTANAL
Rush Request: 72 Hour
P.O.#: 52207

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

03/26/20 8:50
03/31/20 10:37

Laboratory Data

SDG ID: GCF58603
Phoenix ID: CF58609

Project ID: 208295
Client ID: COMP 60, 61, 62, 63 (0-1)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		03/31/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				03/31/20	LL/A	SW3545A
Soil Extraction for Herbicide	Completed				03/31/20	J/D	SW8151A

Chlorinated Herbicides

2,4,5-T	ND	96	ug/Kg	10	04/01/20	JRB	SW8151A
2,4,5-TP (Silvex)	ND	96	ug/Kg	10	04/01/20	JRB	SW8151A
2,4-D	ND	190	ug/Kg	10	04/01/20	JRB	SW8151A
2,4-DB	ND	960	ug/Kg	10	04/01/20	JRB	SW8151A
Dalapon	ND	96	ug/Kg	10	04/01/20	JRB	SW8151A
Dicamba	ND	96	ug/Kg	10	04/01/20	JRB	SW8151A
Dichloroprop	ND	140	ug/Kg	10	04/01/20	JRB	SW8151A
Dinoseb	ND	96	ug/Kg	10	04/01/20	JRB	SW8151A
MCPA	ND	29000	ug/Kg	10	04/01/20	JRB	SW8151A
MCPP	ND	29000	ug/Kg	10	04/01/20	JRB	SW8151A

QA/QC Surrogates

% DCAA	80		%	10	04/01/20	JRB	30 - 150 %
% DCAA (Confirmation)	87		%	10	04/01/20	JRB	30 - 150 %

Pesticides

4,4'-DDD	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
4,4'-DDE	19	7.5	ug/Kg	2	04/01/20	CG	SW8081B
4,4'-DDT	57	7.5	ug/Kg	2	04/01/20	CG	SW8081B
a-BHC	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Alachlor	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Aldrin	ND	3.8	ug/Kg	2	04/01/20	CG	SW8081B
b-BHC	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Chlordane	ND	38	ug/Kg	2	04/01/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan I	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan II	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan sulfate	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Endrin	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Endrin aldehyde	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Endrin ketone	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
g-BHC	ND	1.5	ug/Kg	2	04/01/20	CG	SW8081B
Heptachlor	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Heptachlor epoxide	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Methoxychlor	ND	38	ug/Kg	2	04/01/20	CG	SW8081B
Toxaphene	ND	150	ug/Kg	2	04/01/20	CG	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	54		%	2	04/01/20	CG	30 - 150 %
% DCBP (Confirmation)	43		%	2	04/01/20	CG	30 - 150 %
% TCMX	50		%	2	04/01/20	CG	30 - 150 %
% TCMX (Confirmation)	45		%	2	04/01/20	CG	30 - 150 %

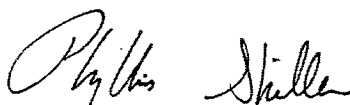
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

April 03, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 03, 2020

FOR: Attn: Front Office
Eastern Analytical
25 Chenell Drive
Concord, NH 03301

Sample Information

Matrix: SOIL
Location Code: EASTANAL
Rush Request: 72 Hour
P.O.#: 52207

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

03/26/20 8:20
03/31/20 10:37

Laboratory Data

SDG ID: GCF58603
Phoenix ID: CF58610

Project ID: 208295
Client ID: COMP 64, 65, 66, 67 (0-1.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		03/31/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				03/31/20	LL/A	SW3545A
Soil Extraction for Herbicide	Completed				03/31/20	J/D	SW8151A

Chlorinated Herbicides

2,4,5-T	ND	94	ug/Kg	10	04/01/20	JRB	SW8151A
2,4,5-TP (Silvex)	ND	94	ug/Kg	10	04/01/20	JRB	SW8151A
2,4-D	ND	190	ug/Kg	10	04/01/20	JRB	SW8151A
2,4-DB	ND	940	ug/Kg	10	04/01/20	JRB	SW8151A
Dalapon	ND	94	ug/Kg	10	04/01/20	JRB	SW8151A
Dicamba	ND	94	ug/Kg	10	04/01/20	JRB	SW8151A
Dichloroprop	ND	140	ug/Kg	10	04/01/20	JRB	SW8151A
Dinoseb	ND	94	ug/Kg	10	04/01/20	JRB	SW8151A
MCPA	ND	28000	ug/Kg	10	04/01/20	JRB	SW8151A
MCPP	ND	28000	ug/Kg	10	04/01/20	JRB	SW8151A

QA/QC Surrogates

% DCAA	79		%	10	04/01/20	JRB	30 - 150 %
% DCAA (Confirmation)	89		%	10	04/01/20	JRB	30 - 150 %

Pesticides

4,4' -DDD	ND	7.4	ug/Kg	2	04/01/20	CG	SW8081B
4,4' -DDE	ND	7.4	ug/Kg	2	04/01/20	CG	SW8081B
4,4' -DDT	ND	7.4	ug/Kg	2	04/01/20	CG	SW8081B
a-BHC	ND	7.4	ug/Kg	2	04/01/20	CG	SW8081B
Alachlor	ND	7.4	ug/Kg	2	04/01/20	CG	SW8081B
Aldrin	ND	3.7	ug/Kg	2	04/01/20	CG	SW8081B
b-BHC	ND	7.4	ug/Kg	2	04/01/20	CG	SW8081B
Chlordane	ND	37	ug/Kg	2	04/01/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	7.4	ug/Kg	2	04/01/20	CG	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	04/01/20	CG	SW8081B
Endrin	ND	7.4	ug/Kg	2	04/01/20	CG	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	04/01/20	CG	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	04/01/20	CG	SW8081B
g-BHC	ND	1.5	ug/Kg	2	04/01/20	CG	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	04/01/20	CG	SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	04/01/20	CG	SW8081B
Methoxychlor	ND	37	ug/Kg	2	04/01/20	CG	SW8081B
Toxaphene	ND	150	ug/Kg	2	04/01/20	CG	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	41		%	2	04/01/20	CG	30 - 150 %
% DCBP (Confirmation)	37		%	2	04/01/20	CG	30 - 150 %
% TCMX	34		%	2	04/01/20	CG	30 - 150 %
% TCMX (Confirmation)	33		%	2	04/01/20	CG	30 - 150 %

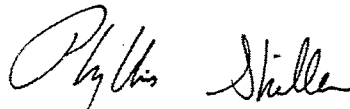
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

April 03, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 03, 2020

FOR: Attn: Front Office
Eastern Analytical
25 Chenell Drive
Concord, NH 03301

Sample Information

Matrix: SOIL
Location Code: EASTANAL
Rush Request: 72 Hour
P.O.#: 52207

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

03/26/20 9:45
03/31/20 10:37

Laboratory Data

SDG ID: GCF58603
Phoenix ID: CF58611

Project ID: 208295
Client ID: COMP 56, 57, 58, 59 (0-1)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		03/31/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				03/31/20	LL/A	SW3545A
Soil Extraction for Herbicide	Completed				03/31/20	J/D	SW8151A

Chlorinated Herbicides

2,4,5-T	ND	90	ug/Kg	10	04/01/20	JRB	SW8151A
2,4,5-TP (Silvex)	ND	90	ug/Kg	10	04/01/20	JRB	SW8151A
2,4-D	ND	180	ug/Kg	10	04/01/20	JRB	SW8151A
2,4-DB	ND	900	ug/Kg	10	04/01/20	JRB	SW8151A
Dalapon	ND	90	ug/Kg	10	04/01/20	JRB	SW8151A
Dicamba	ND	90	ug/Kg	10	04/01/20	JRB	SW8151A
Dichloroprop	ND	140	ug/Kg	10	04/01/20	JRB	SW8151A
Dinoseb	ND	90	ug/Kg	10	04/01/20	JRB	SW8151A
MCPA	ND	27000	ug/Kg	10	04/01/20	JRB	SW8151A
MCPP	ND	27000	ug/Kg	10	04/01/20	JRB	SW8151A

QA/QC Surrogates

% DCAA	81		%	10	04/01/20	JRB	30 - 150 %
% DCAA (Confirmation)	89		%	10	04/01/20	JRB	30 - 150 %

Pesticides

4,4' -DDD	ND	7.1	ug/Kg	2	04/01/20	CG	SW8081B
4,4' -DDE	ND	7.1	ug/Kg	2	04/01/20	CG	SW8081B
4,4' -DDT	ND	14	ug/Kg	2	04/01/20	CG	SW8081B
a-BHC	ND	7.1	ug/Kg	2	04/01/20	CG	SW8081B
Alachlor	ND	7.1	ug/Kg	2	04/01/20	CG	SW8081B
Aldrin	ND	3.6	ug/Kg	2	04/01/20	CG	SW8081B
b-BHC	ND	7.1	ug/Kg	2	04/01/20	CG	SW8081B
Chlordane	ND	36	ug/Kg	2	04/01/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	7.1	ug/Kg	2	04/01/20	CG	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan I	ND	7.1	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan II	ND	7.1	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan sulfate	ND	7.1	ug/Kg	2	04/01/20	CG	SW8081B
Endrin	ND	7.1	ug/Kg	2	04/01/20	CG	SW8081B
Endrin aldehyde	ND	7.1	ug/Kg	2	04/01/20	CG	SW8081B
Endrin ketone	ND	7.1	ug/Kg	2	04/01/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	04/01/20	CG	SW8081B
Heptachlor	ND	7.1	ug/Kg	2	04/01/20	CG	SW8081B
Heptachlor epoxide	ND	7.1	ug/Kg	2	04/01/20	CG	SW8081B
Methoxychlor	ND	36	ug/Kg	2	04/01/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	04/01/20	CG	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	40		%	2	04/01/20	CG	30 - 150 %
% DCBP (Confirmation)	38		%	2	04/01/20	CG	30 - 150 %
% TCMX	38		%	2	04/01/20	CG	30 - 150 %
% TCMX (Confirmation)	38		%	2	04/01/20	CG	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

April 03, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 03, 2020

FOR: Attn: Front Office
Eastern Analytical
25 Chenell Drive
Concord, NH 03301

Sample Information

Matrix: SOIL
Location Code: EASTANAL
Rush Request: 72 Hour
P.O.#: 52207

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

03/26/20 10:40
03/31/20 10:37

Laboratory Data

SDG ID: GCF58603
Phoenix ID: CF58612

Project ID: 208295
Client ID: COMP 52, 53, 54, 55 (0-1)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		03/31/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				03/31/20	LL/A	SW3545A
Soil Extraction for Herbicide	Completed				03/31/20	J/D	SW8151A

Chlorinated Herbicides

2,4,5-T	ND	94	ug/Kg	10	04/01/20	JRB	SW8151A
2,4,5-TP (Silvex)	ND	94	ug/Kg	10	04/01/20	JRB	SW8151A
2,4-D	ND	190	ug/Kg	10	04/01/20	JRB	SW8151A
2,4-DB	ND	940	ug/Kg	10	04/01/20	JRB	SW8151A
Dalapon	ND	94	ug/Kg	10	04/01/20	JRB	SW8151A
Dicamba	ND	94	ug/Kg	10	04/01/20	JRB	SW8151A
Dichloroprop	ND	140	ug/Kg	10	04/01/20	JRB	SW8151A
Dinoseb	ND	94	ug/Kg	10	04/01/20	JRB	SW8151A
MCPA	ND	28000	ug/Kg	10	04/01/20	JRB	SW8151A
MCPP	ND	28000	ug/Kg	10	04/01/20	JRB	SW8151A

QA/QC Surrogates

% DCAA	75		%	10	04/01/20	JRB	30 - 150 %
% DCAA (Confirmation)	84		%	10	04/01/20	JRB	30 - 150 %

Pesticides

4,4'-DDD	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
4,4'-DDE	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
4,4'-DDT	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
a-BHC	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Alachlor	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Aldrin	ND	3.7	ug/Kg	2	04/01/20	CG	SW8081B
b-BHC	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Chlordane	ND	37	ug/Kg	2	04/01/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan I	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan II	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan sulfate	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Endrin	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Endrin aldehyde	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Endrin ketone	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
g-BHC	ND	1.5	ug/Kg	2	04/01/20	CG	SW8081B
Heptachlor	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Heptachlor epoxide	ND	7.5	ug/Kg	2	04/01/20	CG	SW8081B
Methoxychlor	ND	37	ug/Kg	2	04/01/20	CG	SW8081B
Toxaphene	ND	150	ug/Kg	2	04/01/20	CG	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	37		%	2	04/01/20	CG	30 - 150 %
% DCBP (Confirmation)	33		%	2	04/01/20	CG	30 - 150 %
% TCMX	36		%	2	04/01/20	CG	30 - 150 %
% TCMX (Confirmation)	36		%	2	04/01/20	CG	30 - 150 %

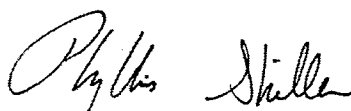
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

April 03, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 03, 2020

FOR: Attn: Front Office
Eastern Analytical
25 Chenell Drive
Concord, NH 03301

Sample Information

Matrix: SOIL
Location Code: EASTANAL
Rush Request: 72 Hour
P.O.#: 52207

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

03/26/20 11:20
03/31/20 10:37

Laboratory Data

SDG ID: GCF58603
Phoenix ID: CF58613

Project ID: 208295
Client ID: COMP 48, 49, 50, 51 (0-1)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	82		%		03/31/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				03/31/20	LL/E	SW3545A
Soil Extraction for Herbicide	Completed				03/31/20	J/D	SW8151A

Chlorinated Herbicides

2,4,5-T	ND	100	ug/Kg	10	04/01/20	JRB	SW8151A
2,4,5-TP (Silvex)	ND	100	ug/Kg	10	04/01/20	JRB	SW8151A
2,4-D	ND	200	ug/Kg	10	04/01/20	JRB	SW8151A
2,4-DB	ND	1000	ug/Kg	10	04/01/20	JRB	SW8151A
Dalapon	ND	100	ug/Kg	10	04/01/20	JRB	SW8151A
Dicamba	ND	100	ug/Kg	10	04/01/20	JRB	SW8151A
Dichloroprop	ND	150	ug/Kg	10	04/01/20	JRB	SW8151A
Dinoseb	ND	100	ug/Kg	10	04/01/20	JRB	SW8151A
MCPA	ND	30000	ug/Kg	10	04/01/20	JRB	SW8151A
MCPP	ND	30000	ug/Kg	10	04/01/20	JRB	SW8151A

QA/QC Surrogates

% DCAA	81		%	10	04/01/20	JRB	30 - 150 %
% DCAA (Confirmation)	92		%	10	04/01/20	JRB	30 - 150 %

Pesticides

4,4'-DDD	ND	8.0	ug/Kg	2	04/01/20	CG	SW8081B
4,4'-DDE	ND	8.0	ug/Kg	2	04/01/20	CG	SW8081B
4,4'-DDT	ND	8.0	ug/Kg	2	04/01/20	CG	SW8081B
a-BHC	ND	8.0	ug/Kg	2	04/01/20	CG	SW8081B
Alachlor	ND	8.0	ug/Kg	2	04/01/20	CG	SW8081B
Aldrin	ND	4.0	ug/Kg	2	04/01/20	CG	SW8081B
b-BHC	ND	8.0	ug/Kg	2	04/01/20	CG	SW8081B
Chlordane	ND	40	ug/Kg	2	04/01/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	8.0	ug/Kg	2	04/01/20	CG	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan I	ND	8.0	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan II	ND	8.0	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan sulfate	ND	8.0	ug/Kg	2	04/01/20	CG	SW8081B
Endrin	ND	8.0	ug/Kg	2	04/01/20	CG	SW8081B
Endrin aldehyde	ND	8.0	ug/Kg	2	04/01/20	CG	SW8081B
Endrin ketone	ND	8.0	ug/Kg	2	04/01/20	CG	SW8081B
g-BHC	ND	1.6	ug/Kg	2	04/01/20	CG	SW8081B
Heptachlor	ND	8.0	ug/Kg	2	04/01/20	CG	SW8081B
Heptachlor epoxide	ND	8.0	ug/Kg	2	04/01/20	CG	SW8081B
Methoxychlor	ND	40	ug/Kg	2	04/01/20	CG	SW8081B
Toxaphene	ND	160	ug/Kg	2	04/01/20	CG	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	68		%	2	04/01/20	CG	30 - 150 %
% DCBP (Confirmation)	60		%	2	04/01/20	CG	30 - 150 %
% TCMX	64		%	2	04/01/20	CG	30 - 150 %
% TCMX (Confirmation)	62		%	2	04/01/20	CG	30 - 150 %

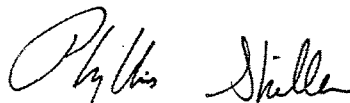
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

April 03, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 03, 2020

FOR: Attn: Front Office
Eastern Analytical
25 Chenell Drive
Concord, NH 03301

Sample Information

Matrix: SOIL
Location Code: EASTANAL
Rush Request: 72 Hour
P.O.#: 52207

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

03/26/20 12:15
03/31/20 10:37

Laboratory Data

SDG ID: GCF58603
Phoenix ID: CF58614

Project ID: 208295
Client ID: COMP 44, 45, 46, 47 (0-1)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	71		%		03/31/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				03/31/20	LL/E	SW3545A
Soil Extraction for Herbicide	Completed				03/31/20	J/D	SW8151A

Chlorinated Herbicides

2,4,5-T	ND	120	ug/Kg	10	04/01/20	JRB	SW8151A
2,4,5-TP (Silvex)	ND	120	ug/Kg	10	04/01/20	JRB	SW8151A
2,4-D	ND	230	ug/Kg	10	04/01/20	JRB	SW8151A
2,4-DB	ND	1200	ug/Kg	10	04/01/20	JRB	SW8151A
Dalapon	ND	120	ug/Kg	10	04/01/20	JRB	SW8151A
Dicamba	ND	120	ug/Kg	10	04/01/20	JRB	SW8151A
Dichloroprop	ND	170	ug/Kg	10	04/01/20	JRB	SW8151A
Dinoseb	ND	120	ug/Kg	10	04/01/20	JRB	SW8151A
MCPA	ND	35000	ug/Kg	10	04/01/20	JRB	SW8151A
MCPP	ND	35000	ug/Kg	10	04/01/20	JRB	SW8151A

QA/QC Surrogates

% DCAA	77		%	10	04/01/20	JRB	30 - 150 %
% DCAA (Confirmation)	86		%	10	04/01/20	JRB	30 - 150 %

Pesticides

4,4'-DDD	ND	9.3	ug/Kg	2	04/01/20	CG	SW8081B
4,4'-DDE	ND	9.3	ug/Kg	2	04/01/20	CG	SW8081B
4,4'-DDT	ND	9.3	ug/Kg	2	04/01/20	CG	SW8081B
a-BHC	ND	9.3	ug/Kg	2	04/01/20	CG	SW8081B
Alachlor	ND	9.3	ug/Kg	2	04/01/20	CG	SW8081B
Aldrin	ND	4.6	ug/Kg	2	04/01/20	CG	SW8081B
b-BHC	ND	9.3	ug/Kg	2	04/01/20	CG	SW8081B
Chlordane	ND	46	ug/Kg	2	04/01/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	9.3	ug/Kg	2	04/01/20	CG	SW8081B
Dieldrin	ND	4.6	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan I	ND	9.3	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan II	ND	9.3	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan sulfate	ND	9.3	ug/Kg	2	04/01/20	CG	SW8081B
Endrin	ND	9.3	ug/Kg	2	04/01/20	CG	SW8081B
Endrin aldehyde	ND	9.3	ug/Kg	2	04/01/20	CG	SW8081B
Endrin ketone	ND	9.3	ug/Kg	2	04/01/20	CG	SW8081B
g-BHC	ND	1.9	ug/Kg	2	04/01/20	CG	SW8081B
Heptachlor	ND	9.3	ug/Kg	2	04/01/20	CG	SW8081B
Heptachlor epoxide	ND	9.3	ug/Kg	2	04/01/20	CG	SW8081B
Methoxychlor	ND	46	ug/Kg	2	04/01/20	CG	SW8081B
Toxaphene	ND	190	ug/Kg	2	04/01/20	CG	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	61		%	2	04/01/20	CG	30 - 150 %
% DCBP (Confirmation)	63		%	2	04/01/20	CG	30 - 150 %
% TCMX	61		%	2	04/01/20	CG	30 - 150 %
% TCMX (Confirmation)	62		%	2	04/01/20	CG	30 - 150 %

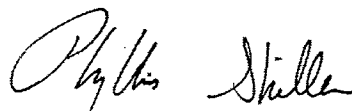
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

April 03, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 03, 2020

FOR: Attn: Front Office
Eastern Analytical
25 Chenell Drive
Concord, NH 03301

Sample Information

Matrix: SOIL
Location Code: EASTANAL
Rush Request: 72 Hour
P.O.#: 52207

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

03/26/20 12:45
03/31/20 10:37

Laboratory Data

SDG ID: GCF58603
Phoenix ID: CF58615

Project ID: 208295
Client ID: COMP 41, 42, 43 (0-1)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	78		%		03/31/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				03/31/20	LL/E	SW3545A
Soil Extraction for Herbicide	Completed				03/31/20	J/D	SW8151A

Chlorinated Herbicides

2,4,5-T	ND	110	ug/Kg	10	04/01/20	JRB	SW8151A
2,4,5-TP (Silvex)	ND	110	ug/Kg	10	04/01/20	JRB	SW8151A
2,4-D	ND	210	ug/Kg	10	04/01/20	JRB	SW8151A
2,4-DB	ND	1100	ug/Kg	10	04/01/20	JRB	SW8151A
Dalapon	ND	110	ug/Kg	10	04/01/20	JRB	SW8151A
Dicamba	ND	110	ug/Kg	10	04/01/20	JRB	SW8151A
Dichloroprop	ND	160	ug/Kg	10	04/01/20	JRB	SW8151A
Dinoseb	ND	110	ug/Kg	10	04/01/20	JRB	SW8151A
MCPA	ND	32000	ug/Kg	10	04/01/20	JRB	SW8151A
MCPP	ND	32000	ug/Kg	10	04/01/20	JRB	SW8151A

QA/QC Surrogates

% DCAA	84		%	10	04/01/20	JRB	30 - 150 %
% DCAA (Confirmation)	92		%	10	04/01/20	JRB	30 - 150 %

Pesticides

4,4'-DDD	ND	8.5	ug/Kg	2	04/01/20	CG	SW8081B
4,4'-DDE	ND	8.5	ug/Kg	2	04/01/20	CG	SW8081B
4,4'-DDT	ND	8.5	ug/Kg	2	04/01/20	CG	SW8081B
a-BHC	ND	8.5	ug/Kg	2	04/01/20	CG	SW8081B
Alachlor	ND	8.5	ug/Kg	2	04/01/20	CG	SW8081B
Aldrin	ND	4.2	ug/Kg	2	04/01/20	CG	SW8081B
b-BHC	ND	8.5	ug/Kg	2	04/01/20	CG	SW8081B
Chlordane	ND	42	ug/Kg	2	04/01/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	8.5	ug/Kg	2	04/01/20	CG	SW8081B
Dieldrin	ND	4.2	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan I	ND	8.5	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan II	ND	8.5	ug/Kg	2	04/01/20	CG	SW8081B
Endosulfan sulfate	ND	8.5	ug/Kg	2	04/01/20	CG	SW8081B
Endrin	ND	8.5	ug/Kg	2	04/01/20	CG	SW8081B
Endrin aldehyde	ND	8.5	ug/Kg	2	04/01/20	CG	SW8081B
Endrin ketone	ND	8.5	ug/Kg	2	04/01/20	CG	SW8081B
g-BHC	ND	1.7	ug/Kg	2	04/01/20	CG	SW8081B
Heptachlor	ND	8.5	ug/Kg	2	04/01/20	CG	SW8081B
Heptachlor epoxide	ND	8.5	ug/Kg	2	04/01/20	CG	SW8081B
Methoxychlor	ND	42	ug/Kg	2	04/01/20	CG	SW8081B
Toxaphene	ND	170	ug/Kg	2	04/01/20	CG	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	63		%	2	04/01/20	CG	30 - 150 %
% DCBP (Confirmation)	53		%	2	04/01/20	CG	30 - 150 %
% TCMX	54		%	2	04/01/20	CG	30 - 150 %
% TCMX (Confirmation)	52		%	2	04/01/20	CG	30 - 150 %

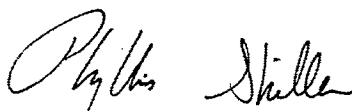
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

April 03, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 03, 2020

FOR: Attn: Front Office
Eastern Analytical
25 Chenell Drive
Concord, NH 03301

Sample Information

Matrix: SOIL
Location Code: EASTANAL
Rush Request: 72 Hour
P.O.#: 52207

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

03/26/20 12:55
03/31/20 10:37

Laboratory Data

SDG ID: GCF58603
Phoenix ID: CF58616

Project ID: 208295
Client ID: COMP 39, 40 (0-3)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	78		%		03/31/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/01/20	LL/A	SW3545A
Soil Extraction for Herbicide	Completed				03/31/20	J/D	SW8151A

Chlorinated Herbicides

2,4,5-T	ND	110	ug/Kg	10	04/01/20	JRB	SW8151A
2,4,5-TP (Silvex)	ND	110	ug/Kg	10	04/01/20	JRB	SW8151A
2,4-D	ND	210	ug/Kg	10	04/01/20	JRB	SW8151A
2,4-DB	ND	1100	ug/Kg	10	04/01/20	JRB	SW8151A
Dalapon	ND	110	ug/Kg	10	04/01/20	JRB	SW8151A
Dicamba	ND	110	ug/Kg	10	04/01/20	JRB	SW8151A
Dichloroprop	ND	160	ug/Kg	10	04/01/20	JRB	SW8151A
Dinoseb	ND	110	ug/Kg	10	04/01/20	JRB	SW8151A
MCPA	ND	32000	ug/Kg	10	04/01/20	JRB	SW8151A
MCPP	ND	32000	ug/Kg	10	04/01/20	JRB	SW8151A

QA/QC Surrogates

% DCAA	77		%	10	04/01/20	JRB	30 - 150 %
% DCAA (Confirmation)	86		%	10	04/01/20	JRB	30 - 150 %

Pesticides

4,4'-DDD	ND	8.4	ug/Kg	2	04/02/20	CG	SW8081B
4,4'-DDE	ND	8.4	ug/Kg	2	04/02/20	CG	SW8081B
4,4'-DDT	ND	8.4	ug/Kg	2	04/02/20	CG	SW8081B
a-BHC	ND	8.4	ug/Kg	2	04/02/20	CG	SW8081B
Alachlor	ND	8.4	ug/Kg	2	04/02/20	CG	SW8081B
Aldrin	ND	4.2	ug/Kg	2	04/02/20	CG	SW8081B
b-BHC	ND	8.4	ug/Kg	2	04/02/20	CG	SW8081B
Chlordane	ND	42	ug/Kg	2	04/02/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	8.4	ug/Kg	2	04/02/20	CG	SW8081B
Dieldrin	ND	4.2	ug/Kg	2	04/02/20	CG	SW8081B
Endosulfan I	ND	8.4	ug/Kg	2	04/02/20	CG	SW8081B
Endosulfan II	ND	8.4	ug/Kg	2	04/02/20	CG	SW8081B
Endosulfan sulfate	ND	8.4	ug/Kg	2	04/02/20	CG	SW8081B
Endrin	ND	8.4	ug/Kg	2	04/02/20	CG	SW8081B
Endrin aldehyde	ND	8.4	ug/Kg	2	04/02/20	CG	SW8081B
Endrin ketone	ND	8.4	ug/Kg	2	04/02/20	CG	SW8081B
g-BHC	ND	1.7	ug/Kg	2	04/02/20	CG	SW8081B
Heptachlor	ND	8.4	ug/Kg	2	04/02/20	CG	SW8081B
Heptachlor epoxide	ND	8.4	ug/Kg	2	04/02/20	CG	SW8081B
Methoxychlor	ND	42	ug/Kg	2	04/02/20	CG	SW8081B
Toxaphene	ND	170	ug/Kg	2	04/02/20	CG	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	67		%	2	04/02/20	CG	30 - 150 %
% DCBP (Confirmation)	62		%	2	04/02/20	CG	30 - 150 %
% TCMX	56		%	2	04/02/20	CG	30 - 150 %
% TCMX (Confirmation)	52		%	2	04/02/20	CG	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

April 03, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

Tel. (860) 645-1102

Fax (860) 645-0823

QA/QC Report

April 03, 2020

QA/QC Data

SDG I.D.: GCF58603

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 524656 (ug/Kg), QC Sample No: CF58995 10X (CF58603, CF58604, CF58605, CF58606, CF58607, CF58608, CF58609, CF58610, CF58611, CF58612, CF58613, CF58614, CF58615, CF58616)										
Chlorinated Herbicides - Soil										
2,4,5-T	ND	83	87	76	13.5	82	85	3.6	40 - 140	30
2,4,5-TP (Silvex)	ND	83	89	78	13.2	81	84	3.6	40 - 140	30
2,4-D	ND	170	89	72	21.1	82	84	2.4	40 - 140	30
2,4-DB	ND	1700	87	73	17.5	78	77	1.3	40 - 140	30
Dalapon	ND	83	63	53	17.2	62	67	7.8	40 - 140	30
Dicamba	ND	83	82	69	17.2	74	76	2.7	40 - 140	30
Dichloroprop	ND	83	95	85	11.1	88	91	3.4	40 - 140	30
Dinoseb	ND	83	83	74	11.5	75	78	3.9	40 - 140	30
MCPA	ND	25000	91	84	8.0	86	89	3.4	40 - 140	30
MCPP	ND	25000	81	70	14.6	71	75	5.5	40 - 140	30
% DCAA (Surrogate Rec)	64	%	58	56	3.5	59	61	3.3	30 - 150	30
% DCAA (Surrogate Rec) (Confirm	57	%	60	59	1.7	62	62	0.0	30 - 150	30

Comment:

Additional criteria: LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 524625 (ug/Kg), QC Sample No: CF58999 2X (CF58605, CF58606, CF58607, CF58608, CF58609, CF58610, CF58611, CF58612, CF58613, CF58614, CF58615)

Pesticides - Soil

4,4' -DDD	ND	1.7	85	81	4.8	40			40 - 140	30
4,4' -DDE	ND	1.7	74	72	2.7	37			40 - 140	30
4,4' -DDT	ND	1.7	79	75	5.2	38			40 - 140	30
a-BHC	ND	1.0	62	62	0.0	33			40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA			40 - 140	30
Aldrin	ND	1.0	64	63	1.6	34			40 - 140	30
b-BHC	ND	1.0	74	73	1.4	38			40 - 140	30
Chlordane	ND	33	74	71	4.1	47			40 - 140	30
d-BHC	ND	3.3	60	57	5.1	29			40 - 140	30
Dieldrin	ND	1.0	71	67	5.8	36			40 - 140	30
Endosulfan I	ND	3.3	72	70	2.8	36			40 - 140	30
Endosulfan II	ND	3.3	80	76	5.1	38			40 - 140	30
Endosulfan sulfate	ND	3.3	81	76	6.4	37			40 - 140	30
Endrin	ND	3.3	75	70	6.9	37			40 - 140	30
Endrin aldehyde	ND	3.3	65	60	8.0	33			40 - 140	30
Endrin ketone	ND	3.3	75	72	4.1	35			40 - 140	30
g-BHC	ND	1.0	63	63	0.0	34			40 - 140	30
Heptachlor	ND	3.3	64	63	1.6	37			40 - 140	30
Heptachlor epoxide	ND	3.3	72	69	4.3	37			40 - 140	30
Methoxychlor	ND	3.3	79	76	3.9	35			40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA			40 - 140	30
% DCBP	68	%	76	71	6.8	38			30 - 150	30
% DCBP (Confirmation)	58	%	67	63	6.2	33			30 - 150	30

QA/QC Data

SDG I.D.: GCF58603

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% TCMX	59	%	58	59	1.7	33			30 - 150	30
% TCMX (Confirmation)	57	%	57	59	3.4	34			30 - 150	30
Comment:										
This Batch consists of Blank, LCS, LCSD and MS.										
QA/QC Batch 524779 (ug/Kg), QC Sample No: CF59482 2X (CF58603, CF58604, CF58616)										
<u>Pesticides - Soil</u>										
4,4' -DDD	ND	1.7	82	65	23.1	54	57	5.4	40 - 140	30
4,4' -DDE	ND	1.7	75	65	14.3	94	85	10.1	40 - 140	30
4,4' -DDT	ND	1.7	76	61	21.9	66	34	64.0	40 - 140	30 r
a-BHC	ND	1.0	75	62	19.0	59	43	31.4	40 - 140	30 r
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	81	65	21.9	92	109	16.9	40 - 140	30
b-BHC	ND	1.0	79	66	17.9	70	83	17.0	40 - 140	30
Chlordane	ND	3.3	75	62	19.0	48	50	4.1	40 - 140	30
d-BHC	ND	3.3	67	53	23.3	72	77	6.7	40 - 140	30
Dieldrin	ND	1.0	78	62	22.9	54	59	8.8	40 - 140	30
Endosulfan I	ND	3.3	85	65	26.7	29	38	26.9	40 - 140	30 m
Endosulfan II	ND	3.3	85	67	23.7	34	84	84.7	40 - 140	30 r
Endosulfan sulfate	ND	3.3	88	69	24.2	74	60	20.9	40 - 140	30
Endrin	ND	3.3	81	65	21.9	31	47	41.0	40 - 140	30 r
Endrin aldehyde	ND	3.3	76	61	21.9	>200	30	NC	40 - 140	30 m
Endrin ketone	ND	3.3	83	66	22.8	32	46	35.9	40 - 140	30 r
g-BHC	ND	1.0	74	61	19.3	41	47	13.6	40 - 140	30
Heptachlor	ND	3.3	77	63	20.0	115	69	50.0	40 - 140	30 r
Heptachlor epoxide	ND	3.3	78	65	18.2	34	93	92.9	40 - 140	30 r
Methoxychlor	ND	3.3	83	66	22.8	149	51	98.0	40 - 140	30 r
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	83	%	79	67	16.4	45	60	28.6	30 - 150	30
% DCBP (Confirmation)	79	%	79	67	16.4	43	52	18.9	30 - 150	30
% TCMX	72	%	70	61	13.7	30	37	20.9	30 - 150	30
% TCMX (Confirmation)	71	%	71	61	15.2	40	79	65.5	30 - 150	30 r

m = This parameter is outside laboratory MS/MSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller
 Phyllis Shiller, Laboratory Director
 April 03, 2020

Friday, April 03, 2020

Criteria: None

State: VT

Sample Criteria Exceedances Report

GCF58603 - EASTANAL

Phoenix Analyte		Criteria	Result	RL	Criteria	RL	Analysis Units
SampleNo	Acode						
*** No Data to Display ***							

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedance information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Comments

April 03, 2020

SDG I.D.: GCF58603

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

CHAIN-OF-CUSTODY RECORD

2.4.10



Eastern Analytical, Inc.
Professional laboratory and drilling services

Sample ID Date Sampled Matrix aParameters

EAI ID# 208295

Page 1

Sample Notes

Comp 23,24,25,26 (0-1) | 3/25/2020 | soil | Subcontract - Herbicides 8151
10:20

58603

Comp 27,28,29,30 (0-1) | 3/25/2020 | soil | Subcontract - Herbicides 8151
11:10

58604

Comp 31,32,33,34 (0-1) | 3/25/2020 | soil | Subcontract - Herbicides 8151
11:55

58605

Comp 35,36,37,38 (0-1) | 3/25/2020 | soil | Subcontract - Herbicides 8151
12:50

58606

only 1 Jar rec'd to run both Pest + Herbs: (US)

EAI ID# 208295

Project State: VT

Project ID: 5016

Results Needed: Preferred Date: Standard

QC Deliverables

RUSH Due Date: _____

☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ MA MCP

Notes about project:

Email login confirmation, pdf of results and invoice to customerservice@easternanalytical.com.

Results needed by 4/3.

Company Phoenix Environmental Labs
Address 587 East Middle Turnpike
Address Manchester, CT 06040
Account #
Phone # (860) 645-1102

PO #: 52207

EAI ID# 208295

Data Deliverable (circle)

Excel NH EMD EQUIS ME EGAD

Call prior to analyzing, if RUSH charges will be applied.

Samples Collected by:

3/30/20 1500 UPS

Relinquished by

UPS

Date/Time

3/31/20 10:37

Received by

UPS

Relinquished by

Date/Time

Received by

Eastern Analytical, Inc. 25 Chenell Dr. Concord, NH 03301

Phone: (603)228-0525

1-800-287-0525

customerservice@easternanalytical.com

As a subcontract lab to EAI, you will defend, indemnify and hold Eastern Analytical, Inc., its officers, employees, and agents harmless from and against any and all liability, loss, expense or claims for injury or damages arising out of the performance against this chain of custody but only in proportion to and to the extent such liability, loss, expense, or claims for injury or damages are caused by or result from the negligent or intentional acts or omissions of you as a subcontract lab, your officers, agents or employees

CHAIN-OF-CUSTODY RECORD

2.4.2008



Eastern Analytical, Inc.
Professional laboratory and drilling services

Sample ID Date Sampled Matrix aParameters Sample Notes

EAI ID# 208295 Page 2

Comp 72, 73, 74, 75 (0 -1.5) 3/25/2020 soil Subcontract - Herbicides 8151 58607

Comp 68, 69, 70, 71 (0 -1.5) 3/26/2020 soil Subcontract - Herbicides 8151 58608

Comp 60, 61, 62, 63 (0-1) 3/26/2020 soil Subcontract - Herbicides 8151 58609

Comp 64, 65, 66, 67 (0 -1.5) 3/26/2020 soil Subcontract - Herbicides 8151 58610

EAI ID# 208295 Project State: VT Project ID: 5016 Results Needed: Preferred Date: Standard RUSH Due Date: PO #: 52207 EAI ID# 208295

Company Phoenix Environmental Labs
Address 587 East Middle Turnpike
Address Manchester, CT 06040
Account #
Phone # (860) 645-1102

QC Deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ MA MCP
Notes about project:
Email login confirmation, pdf of results and invoice to customerservice@easternanalytical.com.

Results needed by 4/3.

Call prior to analyzing, if RUSH charges will be applied.

Relinquished by Date/Time Received by Date/Time
BPS 3/31/20 10:37 [Signature] 3/30/20 15:00

Eastern Analytical, Inc. 25 Chenell Dr. Concord, NH 03301 Phone: (603) 228-0525 1-800-287-0525 customerservice@easternanalytical.com
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CHAIN-OF-CUSTODY RECORD

Sample ID _____ Date Sampled _____ Matrix _____

aParameters

EAL ID# 208295

Page 3

Sample Notes

Comp 56,57,58,59 (0-1) | 3/26/2020 | soil | Subcontract - Herbicides 8151
 9.45

58611

Comp 52,53,54,55 (0-1) | 3/26/2020 | soil | Subcontract - Herbicides 8151
 10.40

58612

Comp 48,49,50,51 (0-1) | 3/26/2020 | soil | Subcontract - Herbicides 8151
 11.20

58613

Comp 44,45,46,47 (0-1) | 3/26/2020 | soil | Subcontract - Herbicides 8151
 12.15

58614

EAL ID# 208295

Project State: VT

Project ID: 5016

Company Phoenix Environmental Labs

Address 587 East Middle Turnpike

Address Manchester, CT 06040

Account #

Phone # (860) 645-1102

Results Needed: Preferred Date: Standard

RUSH Due Date: _____

QC Deliverables

☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ MA MCP

Notes about project:

Email login confirmation, pdf of results and
 Invoice to customerservice@easternanalytical.com.

Results needed by 4/3.

PO #: 52207

EAL ID# 208295

Data Deliverable (circle)

Excel NH EMD EQUIS ME EGAD

Call prior to analyzing, if RUSH charges will be applied.

Samples Collected by:

Relinquished by

Date/Time

Received by

Relinquished by

Date/Time

Received by

Eastern Analytical, Inc. 25 Chenell Dr. Concord, NH 03301

Phone: (603) 228-0525

1-800-287-0525

customerservice@easternanalytical.com

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CHAIN-OF-CUSTODY RECORD

5.4.2025
Eastern Analytical, Inc.
professional laboratory and drilling services

Sample ID Date Sampled Matrix

aParameters

EAID# 208295

Page 4

Sample Notes

Comp 41,42,43 (0-1)

3/26/2020 soil

Subcontract - Herbicides 8151

58615

Comp 39,40 (0-3)

3/26/2020 soil

Subcontract - Herbicides 8151

58616

Comp 23,24,25,26 (0-1)

3/25/2020 soil

Subcontract - Pesticides EPA Method 8081

58603 58617 (US)

Comp 27,28,29,30 (0-1)

3/25/2020 soil

Subcontract - Pesticides EPA Method 8081

58604 58618

EAID# 208295

Project State: VT

Project ID: 5016

Company Phoenix Environmental Labs

Address 587 East Middle Turnpike

Address Manchester, CT 06040

Account #

Phone # (860) 645-1102

Results Needed: Preferred Date: Standard

RUSH Due Date: _____

QC Deliverables

☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ MA MCP

Notes about project:

Email login confirmation, pdf of results and invoice to customerservice@easternanalytical.com.

Results needed by 4/3.

PO #: 52207

EAID# 208295

Data Deliverable (circle)

Excel NH EMD EQUIS ME EGAD

Call prior to analyzing, if RUSH charges will be applied.

Samples Collected by: _____

Relinquished by: John P. Pina Date/Time: 3/31/20 10:37 AM

Relinquished by: _____

Date/Time

Received by: _____

Eastern Analytical, Inc. 25 Chenell Dr. Concord, NH 03301

Phone: (603)228-0525 1-800-287-0525

customerservice@easternanalytical.com

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CHAIN-OF-CUSTODY RECORD

2.4 02c
169000



Eastern Analytical, Inc.
professional laboratory and drilling services

Sample ID Date Sampled Matrix

aParameters

EAID# 208295

Page 5

Sample Notes

Comp 31,32,33,34 (0-1) | 3/25/2020 | soil | Subcontract - Pesticides EPA Method 8081
11:55

58605

Comp 35,36,37,38 (0-1) | 3/25/2020 | soil | Subcontract - Pesticides EPA Method 8081
12:50

58606

Comp 72,73,74,75 (0-1.5) | 3/25/2020 | soil | Subcontract - Pesticides EPA Method 8081
14:50

58607

Comp 68,69,70,71 (0-1.5) | 3/26/2020 | soil | Subcontract - Pesticides EPA Method 8081
7:50

58608

EAID# 208295 Project State: VT

Project ID: 5016

Company Phoenix Environmental Labs

Address 587 East Middle Turnpike

Address Manchester, CT 06040

Account #

Phone # (860) 645-1102

Results Needed: Preferred Date: Standard

RUSH Due Date:

QC Deliverables

☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ MA MCP

Notes about project:

Email login confirmation, pdf of results and
invoice to customerservice@easternanalytical.com.

Results needed by 4/3.

PO #: 52207

EAID# 208295

Data Deliverable (circle)

Excel NH EMD EQUIS ME EGAD

Call prior to analyzing, if RUSH charges will be applied.

Samples collected by:

Chris Johnson

Relinquished by

WPS

Date/Time

3/30/20 10:57

Received by

WPS

Relinquished by

Date/Time

Received by

Eastern Analytical, Inc. 25 Chenell Dr. Concord, NH 03301

Phone: (603)228-0525

1-800-287-0525

customerservice@easternanalytical.com

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CHAIN-OF-CUSTODY RECORD

2.4.2005



Eastern Analytical, Inc.
professional laboratory and drilling services

Sample ID Date Sampled Matrix aParameters

EAID# 208295

Page 6

Sample Notes

Comp 60,61,62,63 (0-1) 3/26/2020 soil Subcontract - Pesticides EPA Method 8081
8:50

58609

Comp 64,65,66,67 (0 3/26/2020 soil Subcontract - Pesticides EPA Method 8081
-1.5) 8:20

58610

Comp 56,57,58,59 (0-1) 3/26/2020 soil Subcontract - Pesticides EPA Method 8081
9:45

58611

Comp 52,53,54,55 (0-1) 3/26/2020 soil Subcontract - Pesticides EPA Method 8081
10:40

58612

EAID# 208295 Project State: VT
Project ID: 5016

Results Needed: Preferred Date: Standard
QC Deliverables RUSH Due Date: _____

☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ MA MCP

Notes about project:

Email login confirmation, pdf of results and
invoice to customerservice@easternanalytical.com.

Results needed by 4/3.

Company Phoenix Environmental Labs
Address 587 East Middle Turnpike
Address Manchester, CT 06040
Account #
Phone # (860) 645-1102

PO #: 52207 EAID# 208295

Data Deliverable (circle)

Excel NH EMD EQUIS ME EGAD

Call prior to analyzing, if RUSH charges will be applied.

Samples collected by:

Relinquished by: Carlynn Date/Time: 3/30/20 1500 UPS

Relinquished by: UPS Date/Time: 3/31/20 10137 Received by: UPS

Eastern Analytical, Inc. 25 Chenell Dr. Concord, NH 03301 Phone: (603)228-0525 1-800-287-0525 customerservice@easternanalytical.com

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CHAIN-OF-CUSTODY RECORD

2.4.095



Eastern Analytical, Inc.
professional laboratory and drilling services

EAI ID# 208295

Page 7

Sample ID Date Sampled Matrix

aParameters

Sample Notes

Comp 48,49,50,51 (0-1) 3/26/2020 soil Subcontract - Pesticides EPA Method 8081
11:20

58613

Comp 44,45,46,47 (0-1) 3/26/2020 soil Subcontract - Pesticides EPA Method 8081
12:15

58614

Comp 41,42,43 (0-1) 3/26/2020 soil Subcontract - Pesticides EPA Method 8081
12:45

58615

Comp 39,40 (0-3) 3/26/2020 soil Subcontract - Pesticides EPA Method 8081
12:55

58616

EAI ID# 208295

Project State: VT

Project ID: 5016

Results Needed: Preferred Date: Standard

QC Deliverables

RUSH Due Date: _____

☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ MA MCP

Notes about project:

Email login confirmation, pdf of results and invoice to customerservice@easternanalytical.com.

Results needed by 4/3.

PO #: 52207

EAI ID# 208295

Data Deliverable (circle)

Excel NH EMD EQUIS ME EGAD

Call prior to analyzing, if RUSH charges will be applied.

Samples collected by:

Relinquished by: Chris Thomas Date/Time: 3/30/20 1500 UPS

Received by: UPS Date/Time: 3/31/20 10:37

Relinquished by: _____ Date/Time: _____ Received by: _____

Phone # (860) 645-1102

Company Phoenix Environmental Labs
Address 587 East Middle Turnpike
Address Manchester, CT 06040
Account #
Phone #

Eastern Analytical, Inc. 25 Chenell Dr. Concord, NH 03301

Phone: (603)228-0525 1-800-287-0525

customerservice@easternanalytical.com

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CHAIN-OF-CUSTODY RECORD

BOLD FIELDS REQUIRED. PLEASE CIRCLE REQUESTED ANALYSIS.

208295

SAMPLE I.D.	SAMPLING DATE/TIME *IF COMPOSITE, INDICATE BOTH START & FINISH DATE/TIME	MATRIX (SEE BELOW)	GRAB/*COMPOSITE	VOC			SVOC			TCMP METALS		INORGANICS			MICRO		OTHER	NOTES # of CONTAINERS MEOH VIAL #			
				524.2 524.2 BTEX 8260 624 1, 4 DIOXANE	524.2 MTBE ONLY VTICS	8021 BTEX HALOS	8015 GRO. MAVPH	8270 625 SVTICS EDB DBCP ABN A BN PAH	TPH8100 LI L2	8015 DRO. MAEPH	PEST 608 PCB 608 PEST 808 PCB 808	OIL & GREASE 1664 TPH 1664	TCMP 1311 ABN METALS VOC PEST HERB	DISSOLVED METALS (LIST BELOW)	TOTAL METALS (LIST BELOW)	TS TSS TDS SPEC. CON.			Br Cl F SO ₄ NO ₂ NO ₃ NO ₃ NO ₂	BOD CBOD T. ALK.	TKN NH ₃ T. PHOS. O. PHOS.
COMP 50, 51 (0-1)	3/26/20/1030-1100S	C		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	550094		
COMP 44, 45, 46, 47 (0-1)	1155-1236			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	550001		
COMP 41, 42, 43 (0-1)	1235-1245			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	550100		
COMP 39, 40 (0-3)	1250-1255			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	550102		
TRIP Blank K-1				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	550073		
TRIP Blank K-2				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	550074		
561																					
3/26/20																					

MATRIX: A-AIR; S-SOIL; GW-GROUND WATER; SW-SURFACE WATER; DW-DRINKING WATER;
WW-WASTE WATER
PRESERVATIVE: H-HCL; N-HNO₃; S-H₂SO₄; Na-NaOH; M-MEON

PROJECT MANAGER: Kurt Muller
COMPANY: VHP
ADDRESS: 40 Dkt. Dr. Bldg. 100, Ste. 200
CITY: South Plainfield, NJ STATE: VT ZIP: 05403
PHONE: 802-778-1270 EXT.:
FAX: 802-405-5130
E-MAIL: k.muller@vhp.com / smf@vhp.com
SITE NAME: BSP-3B
PROJECT #: 58369.00
STATE: NH MA ME VT OTHER:
REGULATORY PROGRAM: NPDES: RGP POTW STORMWATER OR
GWP, OIL FUND, BROWNFIELD OR OTHER:
QUOTE #: 1017421 PO #:

DATE NEEDED: Standard TAT
QA/QC REPORTING LEVEL: A OR B OR C
REPORTING OPTIONS: PRELIMS YES OR NO
ELECTRONIC OPTIONS: PDF EXCEL
E-MAIL: PDF EXCEL
SAMPLER: By hand color 4550
RECEIVED BY: 3/27/20 10:40 a.m.
DATE: 3-27-20 TIME: 14:10
RECEIVED BY: Chapman
RELINQUISHED BY: 3-27-20 DATE: 14:10 TIME: 14:10
RECEIVED BY: Chapman
RELINQUISHED BY: 3-27-20 DATE: 14:10 TIME: 14:10
RECEIVED BY: Chapman

METALS: 8 RCMA 13 PP FE, MN, PB, CU
OTHER METALS:
SAMPLES FIELD FILTERED? ☐ YES ☐ NO
NOTES: (IE: SPECIAL DETECTION LIMITS, BILLING INFO, IF DIFFERENT)
SITE HISTORY:
SUSPECTED CONTAMINATION:
FIELD READINGS:



Eastern Analytical, Inc.

professional laboratory and drilling services

J. Kurt Muller
Vanasse Hangen Brustlin, Inc. (VHB)
40 IDX Drive Building 100
South Burlington, VT 05403



Subject: Laboratory Report

Eastern Analytical, Inc. ID: 208303
Client Identification: BBP-3B | 58369.00
Date Received: 3/27/2020

Dear Mr. Muller :

Enclosed please find the laboratory report for the above identified project. All analyses were performed in accordance with our QA/QC Program. Unless otherwise stated, holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol. Samples which were collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures. Eastern Analytical, Inc. certifies that the enclosed test results meet all requirements of NELAP and other applicable state certifications. Please refer to our website at www.easternanalytical.com for a copy of our NELAP certificate and accredited parameters.

The following standard abbreviations and conventions apply to all EAI reports:

Solid samples are reported on a dry weight basis, unless otherwise noted
< : "less than" followed by the reporting limit
> : "greater than" followed by the reporting limit
%R : % Recovery

Eastern Analytical Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012) and New York (12072).

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the the written approval of the laboratory.

If you have any questions regarding the results contained within, please feel free to directly contact me or the chemist(s) who performed the testing in question. Unless otherwise requested, we will dispose of the sample (s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,


Lorraine Olashaw, Lab Director

4.16.20
Date

43
of pages (excluding cover letter)



SAMPLE CONDITIONS PAGE

EAI ID#: 208303

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Temperature upon receipt (°C): **2.1**

Received on ice or cold packs (Yes/No): **Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
208303.01	SB-24 (0-1)	3/27/20	3/25/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.02	SB-25 (0-1)	3/27/20	3/25/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.03	SB-23 (0-1)	3/27/20	3/25/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.04	SB-26 (0-1)	3/27/20	3/25/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.05	SB-27 (0-1)	3/27/20	3/25/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.06	SB-28 (0-1)	3/27/20	3/25/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.07	SB-29 (0-1)	3/27/20	3/25/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.08	SB-30 (0-1)	3/27/20	3/25/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.09	SB-31 (0-1)	3/27/20	3/25/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.1	SB-32 (0-1)	3/27/20	3/25/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.11	SB-33 (0-1)	3/27/20	3/25/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.12	SB-34 (0-1)	3/27/20	3/25/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.13	SB-35 (0-1)	3/27/20	3/25/20	soil	89.6	Adheres to Sample Acceptance Policy
208303.14	SB-36 (0-1)	3/27/20	3/25/20	soil	92.2	Adheres to Sample Acceptance Policy
208303.15	SB-37 (0-1)	3/27/20	3/25/20	soil	86.5	Adheres to Sample Acceptance Policy
208303.16	SB-38 (0-1)	3/27/20	3/25/20	soil	94.6	Adheres to Sample Acceptance Policy
208303.17	SB-75 (0-1)	3/27/20	3/25/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.18	SB-74 (0-1)	3/27/20	3/25/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.19	SB-73 (0-1.5)	3/27/20	3/25/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.2	SB-72 (0-1.5)	3/27/20	3/25/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.21	SB-71 (0-1.5)	3/27/20	3/25/20	soil		Placed on hold, then cancelled pending results of other samples.

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitability, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis. Immediate analyses, pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite, performed at the laboratory were run outside of the recommended 15 minute hold time.

All results contained in this report relate only to the above listed samples.

References include:

- 1) EPA 600/4-79-020, 1983
- 2) Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd Edition or noted Revision year.
- 3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- 4) Hach Water Analysis Handbook, 4th edition, 1992

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**
Temperature upon receipt (°C): 2.1
Received on ice or cold packs (Yes/No): Y

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
208303.22	SB-70 (0-1.5)	3/27/20	3/25/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.23	SB-69 (0-1.5)	3/27/20	3/25/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.24	SB-65 (0-1.5)	3/27/20	3/25/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.25	SB-64 (0-1)	3/27/20	3/25/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.26	SB-63 (0-1)	3/27/20	3/25/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.27	SB-62 (0-1)	3/27/20	3/25/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.28	SB-68 (0-1.5)	3/27/20	3/26/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.29	SB-67 (0-1.5)	3/27/20	3/26/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.3	SB-67 (0-0.5)	3/27/20	3/26/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.31	SB-66 (0-1.5)	3/27/20	3/26/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.32	SB-61 (0-1)	3/27/20	3/26/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.33	SB-60 (0-1)	3/27/20	3/26/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.34	SB-59 (0-1)	3/27/20	3/26/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.35	SB-58 (0-1)	3/27/20	3/26/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.36	SB-57 (0-1)	3/27/20	3/26/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.37	SB-56 (0-1)	3/27/20	3/26/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.38	SB-55 (0-1)	3/27/20	3/26/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.39	SB-54 (0-1)	3/27/20	3/26/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.4	SB-53 (0-1)	3/27/20	3/26/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.41	SB-52 (0-1)	3/27/20	3/26/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.42	SB-51 (0-1)	3/27/20	3/26/20	soil		Placed on hold, then cancelled pending results of other samples.

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitability, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis. Immediate analyses, pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite, performed at the laboratory were run outside of the recommended 15 minute hold time.

All results contained in this report relate only to the above listed samples.

References include:

- 1) EPA 600/4-79-020, 1983
- 2) Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd Edition or noted Revision year.
- 3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- 4) Hach Water Analysis Handbook, 4th edition, 1992



SAMPLE CONDITIONS PAGE

EAI ID#: 208303

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Temperature upon receipt (°C): **2.1**

Received on ice or cold packs (Yes/No): **Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
208303.43	SB-50 (0-1)	3/27/20	3/26/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.44	SB-49 (0-1)	3/27/20	3/26/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.45	SB-48 (0-1)	3/27/20	3/26/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.46	SB-47 (0-1)	3/27/20	3/26/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.47	SB-46 (0-1)	3/27/20	3/26/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.48	SB-45 (0-1)	3/27/20	3/26/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.49	SB-44 (0-1)	3/27/20	3/26/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.5	SB-43 (0-1)	3/27/20	3/26/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.51	SB-42 (0-1)	3/27/20	3/26/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.52	SB-41 (0-1)	3/27/20	3/26/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.53	SB-40 (0-3)	3/27/20	3/26/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.54	SB-39 (0-3)	3/27/20	3/26/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.55	Trip Blank	3/27/20	3/25/20	soil		Placed on hold, then cancelled pending results of other samples.
208303.56	SB-51 (5-7)	3/27/20	3/26/20	soil	87.0	Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitability, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.

Immediate analyses, pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite, performed at the laboratory were run outside of the recommended 15 minute hold time.

All results contained in this report relate only to the above listed samples.

References include:

- 1) EPA 600/4-79-020, 1983
- 2) Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd Edition or noted Revision year.
- 3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- 4) Hach Water Analysis Handbook, 4th edition, 1992



LABORATORY REPORT

EAI ID#: 208303

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Sample ID: SB-51 (5-7)

Lab Sample ID: 208303.56

Matrix: soil

Date Sampled: 3/26/20

Date Received: 3/27/20

Units: mg/kg

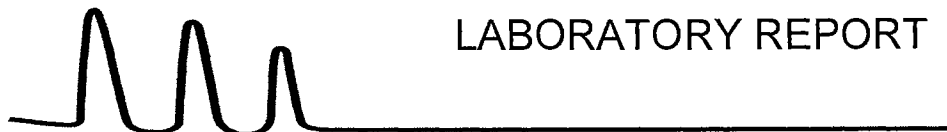
Date of Analysis: 4/9/20

Analyst: DGM

Method: 8260C

Dilution Factor: 1

Dichlorodifluoromethane	< 0.1
Chloromethane	< 0.1
Vinyl chloride	< 0.02
Bromomethane	< 0.1
Chloroethane	< 0.1
Trichlorofluoromethane	< 0.1
Diethyl Ether	< 0.05
Acetone	< 2
1,1-Dichloroethene	< 0.05
Methylene chloride	< 0.1
Carbon disulfide	< 0.1
Methyl-t-butyl ether(MTBE)	< 0.1
trans-1,2-Dichloroethene	< 0.05
1,1-Dichloroethane	< 0.05
2,2-Dichloropropane	< 0.05
cis-1,2-Dichloroethene	< 0.05
2-Butanone(MEK)	< 0.5
Bromochloromethane	< 0.05
Tetrahydrofuran(THF)	< 0.5
Chloroform	< 0.05
1,1,1-Trichloroethane	< 0.05
Carbon tetrachloride	< 0.05
1,1-Dichloropropene	< 0.05
Benzene	< 0.05
1,2-Dichloroethane	< 0.05
Trichloroethene	< 0.05
1,2-Dichloropropane	< 0.05
Dibromomethane	< 0.05
Bromodichloromethane	< 0.05
4-Methyl-2-pentanone(MIBK)	< 0.5
cis-1,3-Dichloropropene	< 0.05
Toluene	< 0.05
trans-1,3-Dichloropropene	< 0.05
1,1,2-Trichloroethane	< 0.05
2-Hexanone	< 0.1
Tetrachloroethene	< 0.05
1,3-Dichloropropane	< 0.05
Dibromochloromethane	< 0.05
1,2-Dibromoethane(EDB)	< 0.02
Chlorobenzene	< 0.05
1,1,1,2-Tetrachloroethane	< 0.05
Ethylbenzene	< 0.05
mp-Xylene	< 0.05
o-Xylene	< 0.05
Styrene	< 0.05
Bromoform	< 0.05
IsoPropylbenzene	< 0.05



LABORATORY REPORT

EAI ID#: 208303

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Sample ID: SB-51 (5-7)

Lab Sample ID: 208303.56

Matrix: soil

Date Sampled: 3/26/20

Date Received: 3/27/20

Units: mg/kg

Date of Analysis: 4/9/20

Analyst: DGM

Method: 8260C

Dilution Factor: 1

Bromobenzene	< 0.05
1,1,2,2-Tetrachloroethane	< 0.05
1,2,3-Trichloropropane	< 0.05
n-Propylbenzene	< 0.05
2-Chlorotoluene	< 0.05
4-Chlorotoluene	< 0.05
1,3,5-Trimethylbenzene	< 0.05
tert-Butylbenzene	< 0.05
1,2,4-Trimethylbenzene	< 0.05
sec-Butylbenzene	< 0.05
1,3-Dichlorobenzene	< 0.05
p-Isopropyltoluene	< 0.05
1,4-Dichlorobenzene	< 0.05
1,2-Dichlorobenzene	< 0.05
n-Butylbenzene	< 0.05
1,2-Dibromo-3-chloropropane	< 0.05
1,2,4-Trichlorobenzene	< 0.05
Hexachlorobutadiene	< 0.05
Naphthalene	< 0.1
1,2,3-Trichlorobenzene	< 0.05
4-Bromofluorobenzene (surr)	96 %R
1,2-Dichlorobenzene-d4 (surr)	98 %R
Toluene-d8 (surr)	98 %R
1,2-Dichloroethane-d4 (surr)	94 %R

The following analytes were assessed down to the listed concentrations, 1,2-Dibromo-3-Chloropropane (0.0053mg/kg), 1,2,3-Trichloropropane (0.00311mg/kg). Detectable analytes are reported as J flags and should be considered estimated values.



QC REPORT

EAI ID#: 208303

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 0.1	1.1 (108 %R)	1.0 (104 %R) (4 RPD)	4/9/2020	mg/kg	40 - 160	20	8260C
Chloromethane	< 0.1	1.0 (103 %R)	1.0 (103 %R) (0 RPD)	4/9/2020	mg/kg	40 - 160	20	8260C
Vinyl chloride	< 0.02	0.82 (82 %R)	0.79 (79 %R) (4 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
Bromomethane	< 0.1	0.70 (70 %R)	0.70 (70 %R) (0 RPD)	4/9/2020	mg/kg	40 - 160	20	8260C
Chloroethane	< 0.1	0.87 (87 %R)	0.84 (84 %R) (3 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
Trichlorofluoromethane	< 0.1	1.0 (104 %R)	1.0 (104 %R) (1 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
Diethyl Ether	< 0.05	0.86 (86 %R)	0.86 (86 %R) (0 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
Acetone	< 2	< 2 (93 %R)	< 2 (96 %R) (3 RPD)	4/9/2020	mg/kg	40 - 160	20	8260C
1,1-Dichloroethene	< 0.05	0.91 (91 %R)	0.92 (92 %R) (0 RPD)	4/9/2020	mg/kg	59 - 172	20	8260C
Methylene chloride	< 0.1	0.81 (81 %R)	0.80 (80 %R) (1 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
Carbon disulfide	< 0.1	0.81 (81 %R)	0.83 (83 %R) (2 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
Methyl-t-butyl ether(MTBE)	< 0.1	0.98 (98 %R)	0.98 (98 %R) (0 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
trans-1,2-Dichloroethene	< 0.05	0.95 (95 %R)	0.95 (95 %R) (0 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
1,1-Dichloroethane	< 0.05	0.96 (96 %R)	0.96 (96 %R) (0 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
2,2-Dichloropropane	< 0.05	1.2 (117 %R)	1.1 (115 %R) (2 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
cis-1,2-Dichloroethene	< 0.05	1.1 (108 %R)	1.1 (107 %R) (0 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
2-Butanone(MEK)	< 0.5	0.91 (91 %R)	0.92 (92 %R) (1 RPD)	4/9/2020	mg/kg	40 - 160	20	8260C
Bromochloromethane	< 0.05	0.97 (97 %R)	0.96 (96 %R) (1 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
Tetrahydrofuran(THF)	< 0.5	0.81 (81 %R)	0.79 (79 %R) (2 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
Chloroform	< 0.05	0.94 (94 %R)	0.94 (94 %R) (1 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
1,1,1-Trichloroethane	< 0.05	1.1 (108 %R)	1.1 (108 %R) (0 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
Carbon tetrachloride	< 0.05	0.99 (99 %R)	0.99 (99 %R) (0 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
1,1-Dichloropropene	< 0.05	1.1 (110 %R)	1.1 (110 %R) (0 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
Benzene	< 0.05	0.99 (99 %R)	0.98 (98 %R) (0 RPD)	4/9/2020	mg/kg	66 - 142	20	8260C
1,2-Dichloroethane	< 0.05	0.89 (89 %R)	0.89 (89 %R) (0 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
Trichloroethene	< 0.05	1.0 (103 %R)	1.0 (104 %R) (1 RPD)	4/9/2020	mg/kg	62 - 137	20	8260C
1,2-Dichloropropane	< 0.05	0.97 (97 %R)	0.97 (97 %R) (0 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
Dibromomethane	< 0.05	0.88 (88 %R)	0.88 (88 %R) (0 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
Bromodichloromethane	< 0.05	0.95 (95 %R)	0.95 (95 %R) (0 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
4-Methyl-2-pentanone(MIBK)	< 0.5	1.0 (102 %R)	1.0 (102 %R) (0 RPD)	4/9/2020	mg/kg	40 - 160	20	8260C
cis-1,3-Dichloropropene	< 0.05	1.0 (103 %R)	1.0 (103 %R) (0 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
Toluene	< 0.05	1.0 (104 %R)	1.0 (102 %R) (2 RPD)	4/9/2020	mg/kg	59 - 139	20	8260C
trans-1,3-Dichloropropene	< 0.05	1.0 (103 %R)	1.0 (101 %R) (2 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
1,1,2-Trichloroethane	< 0.05	0.94 (94 %R)	0.93 (93 %R) (2 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
2-Hexanone	< 0.1	0.97 (97 %R)	0.96 (96 %R) (1 RPD)	4/9/2020	mg/kg	40 - 160	20	8260C
Tetrachloroethene	< 0.05	1.1 (106 %R)	1.0 (104 %R) (2 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
1,3-Dichloropropane	< 0.05	0.90 (90 %R)	0.88 (88 %R) (2 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
Dibromochloromethane	< 0.05	0.88 (88 %R)	0.86 (86 %R) (2 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
1,2-Dibromoethane(EDB)	< 0.02	0.99 (99 %R)	0.94 (94 %R) (5 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
Chlorobenzene	< 0.05	1.0 (104 %R)	1.0 (101 %R) (2 RPD)	4/9/2020	mg/kg	60 - 133	20	8260C
1,1,1,2-Tetrachloroethane	< 0.05	0.94 (94 %R)	0.93 (93 %R) (2 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
Ethylbenzene	< 0.05	1.2 (118 %R)	1.2 (116 %R) (2 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
mp-Xylene	< 0.05	2.4 (120 %R)	2.4 (118 %R) (2 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
o-Xylene	< 0.05	1.2 (117 %R)	1.1 (114 %R) (2 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
Styrene	< 0.05	1.2 (118 %R)	1.2 (115 %R) (3 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
Bromoform	< 0.05	0.85 (85 %R)	0.84 (84 %R) (1 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C



QC REPORT

EAI ID#: 208303

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
IsoPropylbenzene	< 0.05	* 1.4 (136 %R)	* 1.3 (134 %R) (2 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
Bromobenzene	< 0.05	1.0 (105 %R)	0.95 (95 %R) (10 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
1,1,2,2-Tetrachloroethane	< 0.05	1.0 (103 %R)	0.92 (92 %R) (11 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
1,2,3-Trichloropropane	< 0.05	1.0 (103 %R)	0.93 (93 %R) (9 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
n-Propylbenzene	< 0.05	* 1.3 (132 %R)	1.2 (120 %R) (10 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
2-Chlorotoluene	< 0.05	1.2 (122 %R)	1.1 (110 %R) (10 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
4-Chlorotoluene	< 0.05	1.2 (117 %R)	1.1 (106 %R) (10 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
1,3,5-Trimethylbenzene	< 0.05	* 1.4 (138 %R)	1.3 (126 %R) (10 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
tert-Butylbenzene	< 0.05	1.3 (129 %R)	1.2 (117 %R) (10 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
1,2,4-Trimethylbenzene	< 0.05	* 1.4 (138 %R)	1.3 (125 %R) (9 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
sec-Butylbenzene	< 0.05	* 1.4 (136 %R)	1.2 (124 %R) (9 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
1,3-Dichlorobenzene	< 0.05	1.1 (114 %R)	1.0 (104 %R) (9 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
p-Isopropyltoluene	< 0.05	* 1.4 (140 %R)	1.3 (127 %R) (9 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
1,4-Dichlorobenzene	< 0.05	1.1 (107 %R)	0.98 (98 %R) (9 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
1,2-Dichlorobenzene	< 0.05	1.1 (107 %R)	0.98 (98 %R) (9 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
n-Butylbenzene	< 0.05	1.2 (124 %R)	1.1 (114 %R) (8 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
1,2-Dibromo-3-chloropropane	< 0.05	0.86 (86 %R)	0.80 (80 %R) (8 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
1,2,4-Trichlorobenzene	< 0.05	1.1 (107 %R)	0.99 (99 %R) (8 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
Hexachlorobutadiene	< 0.05	0.90 (90 %R)	0.83 (83 %R) (8 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
Naphthalene	< 0.1	1.0 (105 %R)	0.97 (97 %R) (8 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
1,2,3-Trichlorobenzene	< 0.05	0.98 (98 %R)	0.91 (91 %R) (7 RPD)	4/9/2020	mg/kg	70 - 130	20	8260C
4-Bromofluorobenzene (surr)	98 %R	101 %R	105 %R	4/9/2020	% Rec	70 - 130	20	8260C
1,2-Dichlorobenzene-d4 (surr)	97 %R	97 %R	95 %R	4/9/2020	% Rec	70 - 130	20	8260C
Toluene-d8 (surr)	97 %R	99 %R	98 %R	4/9/2020	% Rec	70 - 130	20	8260C
1,2-Dichloroethane-d4 (surr)	94 %R	90 %R	91 %R	4/9/2020	% Rec	70 - 130	20	8260C

Samples were extracted and analyzed within holding time limits.

Instrumentation was calibrated in accordance with the method requirements.

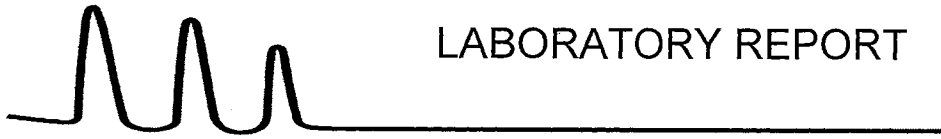
The method blanks were free of contamination at the reporting limits.

Sample surrogate recoveries met the above stated criteria.

The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.

There were no exceptions in the analyses, unless noted.

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted on the sample page, flagged analytes that exceed acceptance limits in the Quality Control sample do not impact the data.



LABORATORY REPORT

EAI ID#: 208303

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Sample ID: SB-51 (5-7)

Lab Sample ID: 208303.56

Matrix: soil

Date Sampled: 3/26/20

Date Received: 3/27/20

Units: mg/kg

Date of Analysis: 4/9/20

Analyst: JAK

Method: 8015Cmod

Dilution Factor: 1

TPH (Gasoline Range C6-C10) < 2

FID 2,5-Dibromotoluene (surr) **154 %R**

The surrogate 2,5-Dibromotoluene (surr) deviated outside the QC limits within the sample(s).



QC REPORT

EAI ID#: 208303

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Batch ID: 637220-40913/S040920GRO1

Client Designation: BBP-3B | 58369.00

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
TPH (Gasoline Range C6-C10)	< 2	25 (104 %R)	25 (103 %R) (1 RPD)	4/9/2020	mg/kg	70 - 130	30	8015Cmo
FID 2,5-Dibromotoluene (surr)	99 %R	109 %R	108 %R	4/9/2020	% Rec	70 - 130	30	8015Cmo

Samples were extracted and analyzed within holding time limits.

Instrumentation was calibrated in accordance with the method requirements.

The method blanks were free of contamination at the reporting limits.

Sample surrogate recoveries met the above stated criteria.

The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.

There were no exceptions in the analyses, unless noted.

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted on the sample page, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.



LABORATORY REPORT

EAI ID#: 208303

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Client Sample ID:	SB-51 (5-7)	Date Prepared:	4/9/20
Lab Sample ID:	208303.56	Units:	mg/kg
Matrix:	soil	Method:	8270D
Date Sampled:	3/26/20	Analyst:	JMR
Date Received:	3/27/20		

		Dilution Factor	Date Analyzed	TEF	TEQ
alpha-Terpineol	< 0.4	1	4/13/20		
Phenol	< 0.08	1	4/13/20		
2-Chlorophenol	< 0.08	1	4/13/20		
2,4-Dichlorophenol	< 0.08	1	4/13/20		
2,4,5-Trichlorophenol	< 0.08	1	4/13/20		
2,4,6-Trichlorophenol	< 0.08	1	4/13/20		
Pentachlorophenol	< 0.4	1	4/13/20		
2-Nitrophenol	< 0.4	1	4/13/20		
4-Nitrophenol	< 0.4	1	4/13/20		
2,4-Dinitrophenol	< 0.8	1	4/13/20		
2-Methylphenol	< 0.08	1	4/13/20		
3/4-Methylphenol	< 0.08	1	4/13/20		
2,4-Dimethylphenol	< 0.4	1	4/13/20		
4-Chloro-3-methylphenol	< 0.08	1	4/13/20		
4,6-Dinitro-2-methylphenol	< 0.4	1	4/13/20		
Benzoic Acid	< 4	1	4/13/20		
N-Nitrosodimethylamine	< 0.08	1	4/13/20		
n-Nitroso-di-n-propylamine	< 0.05	1	4/13/20		
n-Nitrosodiphenylamine	< 0.08	1	4/13/20		
bis(2-Chloroethyl)ether	< 0.08	1	4/13/20		
bis(2-chloroisopropyl)ether	< 0.08	1	4/13/20		
bis(2-Chloroethoxy)methane	< 0.08	1	4/13/20		
1,3-Dichlorobenzene	< 0.08	1	4/13/20		
Acetophenone	< 0.8	1	4/13/20		
1,4-Dichlorobenzene	< 0.08	1	4/13/20		
1,2-Dichlorobenzene	< 0.08	1	4/13/20		
1,2,4-Trichlorobenzene	< 0.08	1	4/13/20		
2-Chloronaphthalene	< 0.08	1	4/13/20		
4-Chlorophenyl-phenylether	< 0.08	1	4/13/20		
4-Bromophenyl-phenylether	< 0.08	1	4/13/20		
Hexachloroethane	< 0.08	1	4/13/20		
Hexachlorobutadiene	< 0.08	1	4/13/20		
Hexachlorocyclopentadiene	< 0.4	1	4/13/20		
Hexachlorobenzene	< 0.08	1	4/13/20		
4-Chloroaniline	< 0.08	1	4/13/20		
2,3-Dichloroaniline	< 0.08	1	4/13/20		
2-Nitroaniline	< 0.4	1	4/13/20		
3-Nitroaniline	< 0.4	1	4/13/20		
4-Nitroaniline	< 0.4	1	4/13/20		
Aniline	< 0.08	1	4/13/20		
Benzyl alcohol	< 0.8	1	4/13/20		
Nitrobenzene	< 0.08	1	4/13/20		
Isophorone	< 0.08	1	4/13/20		
2,4-Dinitrotoluene	< 0.2	1	4/13/20		
2,6-Dinitrotoluene	< 0.2	1	4/13/20		
Benzidine (estimated)	< 0.4	1	4/13/20		



LABORATORY REPORT

EAI ID#: 208303

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Client Sample ID:	SB-51 (5-7)	Date Prepared:		4/9/20	
Lab Sample ID:	208303.56	Units:		mg/kg	
Matrix:	soil	Method:		8270D	
Date Sampled:	3/26/20	Dilution Factor	Analyst:		JMR
Date Received:	3/27/20		Date Analyzed	TEF	TEQ
3,3'-Dichlorobenzidine	< 0.08	1	4/13/20		
Pyridine	< 0.4	1	4/13/20		
Azobenzene	< 0.08	1	4/13/20		
Carbazole	< 0.08	1	4/13/20		
Dimethylphthalate	< 0.08	1	4/13/20		
Diethylphthalate	< 0.4	1	4/13/20		
Di-n-butylphthalate	< 0.4	1	4/13/20		
Butylbenzylphthalate	< 0.4	1	4/13/20		
bis(2-Ethylhexyl)phthalate	< 0.4	1	4/13/20		
Di-n-octylphthalate	< 0.4	1	4/13/20		
Dibenzofuran	< 0.08	1	4/13/20		
Naphthalene	< 0.008	1	4/13/20		
2-Methylnaphthalene	< 0.008	1	4/13/20		
1-Methylnaphthalene	< 0.008	1	4/13/20		
Acenaphthylene	< 0.008	1	4/13/20		
Acenaphthene	0.025	1	4/13/20		
Fluorene	0.010	1	4/13/20		
Phenanthrene	0.015	1	4/13/20		
Anthracene	< 0.008	1	4/13/20		
Fluoranthene	0.025	1	4/13/20		
Pyrene	0.020	1	4/13/20		
Benzo[a]anthracene	0.013	1	4/13/20	0.1	.0013
Chrysene	0.013	1	4/13/20	0.001	.000013
Benzo[b]fluoranthene	0.018	1	4/13/20	0.1	.0018
Benzo[k]fluoranthene	< 0.008	1	4/13/20	0.01	< .00008
Benzo[a]pyrene	0.012	1	4/13/20	1	.012
Indeno[1,2,3-cd]pyrene	0.010	1	4/13/20	0.1	.001
Dibenz[a,h]anthracene	< 0.008	1	4/13/20	1	< .008
Benzo[g,h,i]perylene	0.012	1	4/13/20		
n-Decane	< 0.4	1	4/13/20		
n-Octadecane	< 0.4	1	4/13/20		
2-Fluorophenol (surr)	61 %R		4/13/20		
Phenol-d6 (surr)	69 %R		4/13/20		
2,4,6-Tribromophenol (surr)	84 %R		4/13/20		
Nitrobenzene-D5 (surr)	70 %R		4/13/20		
2-Fluorobiphenyl (surr)	74 %R		4/13/20		
p-Terphenyl-D14 (surr)	72 %R		4/13/20		

TEF: Toxicity Equivalent Factor TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.



QC REPORT

EAI ID#: 208303

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Batch ID: 637220-34619/S040920ABN1

Client Designation: BBP-3B | 58369.00

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
alpha-Terpineol	< 0.34	1.2 (74 %R)	1.3 (78 %R) (5 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Phenol	< 0.07	2.2 (66 %R)	2.2 (67 %R) (2 RPD)	4/13/2020	mg/kg	15 - 130	30	8270D
2-Chlorophenol	< 0.07	2.3 (69 %R)	2.3 (69 %R) (1 RPD)	4/13/2020	mg/kg	30 - 130	30	8270D
2,4-Dichlorophenol	< 0.07	2.5 (74 %R)	2.5 (75 %R) (3 RPD)	4/13/2020	mg/kg	30 - 130	30	8270D
2,4,5-Trichlorophenol	< 0.07	2.6 (78 %R)	2.7 (81 %R) (4 RPD)	4/13/2020	mg/kg	30 - 130	30	8270D
2,4,6-Trichlorophenol	< 0.07	2.5 (76 %R)	2.6 (79 %R) (3 RPD)	4/13/2020	mg/kg	30 - 130	30	8270D
Pentachlorophenol	< 0.34	3.1 (92 %R)	3.4 (101 %R) (10 RPD)	4/13/2020	mg/kg	30 - 130	30	8270D
2-Nitrophenol	< 0.34	2.5 (76 %R)	2.6 (77 %R) (2 RPD)	4/13/2020	mg/kg	30 - 130	30	8270D
4-Nitrophenol	< 0.34	2.7 (82 %R)	3.0 (90 %R) (10 RPD)	4/13/2020	mg/kg	15 - 130	30	8270D
2,4-Dinitrophenol	< 0.7	2.8 (83 %R)	3.1 (94 %R) (13 RPD)	4/13/2020	mg/kg	15 - 130	30	8270D
2-Methylphenol	< 0.07	2.3 (70 %R)	2.4 (72 %R) (2 RPD)	4/13/2020	mg/kg	30 - 130	30	8270D
3/4-Methylphenol	< 0.07	2.5 (74 %R)	2.5 (76 %R) (3 RPD)	4/13/2020	mg/kg	30 - 130	30	8270D
2,4-Dimethylphenol	< 0.34	2.1 (64 %R)	2.2 (66 %R) (2 RPD)	4/13/2020	mg/kg	30 - 130	30	8270D
4-Chloro-3-methylphenol	< 0.07	2.5 (74 %R)	2.6 (79 %R) (6 RPD)	4/13/2020	mg/kg	30 - 130	30	8270D
4,6-Dinitro-2-methylphenol	< 0.34	2.9 (87 %R)	3.2 (96 %R) (10 RPD)	4/13/2020	mg/kg	30 - 130	30	8270D
Benzoic Acid	< 3.4	< 3.4 (60 %R)	< 3.4 (90 %R) (39 RPD) !	4/13/2020	mg/kg	15 - 130	30	8270D
N-Nitrosodimethylamine	< 0.07	1.2 (70 %R)	1.2 (69 %R) (0 RPD)	4/13/2020	mg/kg	15 - 140	30	8270D
n-Nitroso-di-n-propylamine	< 0.04	1.2 (70 %R)	1.2 (73 %R) (4 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
n-Nitrosodiphenylamine	< 0.07	1.3 (77 %R)	1.4 (81 %R) (5 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
bis(2-Chloroethyl)ether	< 0.07	1.2 (71 %R)	1.2 (71 %R) (0 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
bis(2-chloroisopropyl)ether	< 0.07	1.1 (69 %R)	1.1 (69 %R) (1 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
bis(2-Chloroethoxy)methane	< 0.07	1.2 (75 %R)	1.3 (77 %R) (2 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
1,3-Dichlorobenzene	< 0.07	1.1 (67 %R)	1.1 (67 %R) (1 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Acetophenone	< 0.7	1.2 (71 %R)	1.2 (72 %R) (2 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
1,4-Dichlorobenzene	< 0.07	1.1 (66 %R)	1.1 (66 %R) (1 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
1,2-Dichlorobenzene	< 0.07	1.2 (69 %R)	1.1 (68 %R) (1 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
1,2,4-Trichlorobenzene	< 0.07	1.2 (72 %R)	1.2 (72 %R) (0 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
2-Chloronaphthalene	< 0.07	1.2 (74 %R)	1.3 (77 %R) (3 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
4-Chlorophenyl-phenylether	< 0.07	1.3 (76 %R)	1.3 (79 %R) (4 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
4-Bromophenyl-phenylether	< 0.07	1.3 (77 %R)	1.4 (82 %R) (6 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Hexachloroethane	< 0.07	1.1 (67 %R)	1.1 (66 %R) (0 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Hexachlorobutadiene	< 0.07	1.2 (72 %R)	1.2 (72 %R) (0 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Hexachlorocyclopentadiene	< 0.34	0.69 (41 %R)	0.71 (42 %R) (2 RPD)	4/13/2020	mg/kg	15 - 140	30	8270D
Hexachlorobenzene	< 0.07	1.3 (80 %R)	1.4 (86 %R) (7 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
4-Chloroaniline	< 0.07	1.2 (74 %R)	1.3 (77 %R) (5 RPD)	4/13/2020	mg/kg	15 - 140	30	8270D
2,3-Dichloroaniline	< 0.07	1.3 (76 %R)	1.3 (78 %R) (4 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
2-Nitroaniline	< 0.34	1.3 (80 %R)	1.4 (83 %R) (5 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
3-Nitroaniline	< 0.34	1.3 (80 %R)	1.4 (85 %R) (6 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
4-Nitroaniline	< 0.34	1.4 (84 %R)	1.5 (90 %R) (7 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Aniline	< 0.07	1.1 (68 %R)	1.1 (69 %R) (1 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Benzyl alcohol	< 0.7	1.2 (74 %R)	1.3 (77 %R) (4 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Nitrobenzene	< 0.07	1.2 (72 %R)	1.2 (73 %R) (1 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Isophorone	< 0.07	1.2 (73 %R)	1.3 (77 %R) (5 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
2,4-Dinitrotoluene	< 0.2	1.4 (81 %R)	1.4 (85 %R) (5 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
2,6-Dinitrotoluene	< 0.2	1.3 (81 %R)	1.4 (85 %R) (5 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Benzidine (estimated)	< 0.34	0.77 (46 %R)	0.74 (45 %R) (3 RPD)	4/13/2020	mg/kg	1 - 200	50	8270D



QC REPORT

EAI ID#: 208303

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Batch ID: 637220-34619/S040920ABN1

Client Designation: BBP-3B | 58369.00

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
3,3'-Dichlorobenzidine	< 0.07	1.4 (81 %R)	1.5 (88 %R) (7 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Pyridine	< 0.34	0.92 (55 %R)	0.95 (57 %R) (4 RPD)	4/13/2020	mg/kg	15 - 140	30	8270D
Azobenzene	< 0.07	1.3 (77 %R)	1.3 (80 %R) (4 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Carbazole	< 0.07	1.4 (82 %R)	1.5 (88 %R) (7 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Dimethylphthalate	< 0.07	1.3 (79 %R)	1.4 (82 %R) (5 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Diethylphthalate	< 0.34	1.4 (84 %R)	1.5 (89 %R) (5 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Di-n-butylphthalate	< 0.34	1.4 (86 %R)	1.5 (92 %R) (8 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Butylbenzylphthalate	< 0.34	1.4 (83 %R)	1.5 (90 %R) (7 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
bis(2-Ethylhexyl)phthalate	< 0.34	1.4 (84 %R)	1.5 (91 %R) (7 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Di-n-octylphthalate	< 0.34	1.4 (85 %R)	1.5 (92 %R) (8 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Dibenzofuran	< 0.07	1.2 (75 %R)	1.3 (78 %R) (4 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Naphthalene	< 0.007	1.2 (73 %R)	1.2 (72 %R) (1 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
2-Methylnaphthalene	< 0.007	1.2 (74 %R)	1.3 (77 %R) (3 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
1-Methylnaphthalene	< 0.007	1.2 (75 %R)	1.3 (78 %R) (4 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Acenaphthylene	< 0.007	1.2 (71 %R)	1.2 (75 %R) (5 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Acenaphthene	< 0.007	1.2 (74 %R)	1.3 (77 %R) (5 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Fluorene	< 0.007	1.2 (73 %R)	1.3 (77 %R) (4 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Phenanthrene	< 0.007	1.3 (76 %R)	1.3 (80 %R) (6 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Anthracene	< 0.007	1.3 (76 %R)	1.3 (80 %R) (6 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Fluoranthene	< 0.007	1.3 (77 %R)	1.4 (82 %R) (6 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Pyrene	< 0.007	1.2 (71 %R)	1.3 (76 %R) (7 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Benzo[a]anthracene	< 0.007	1.2 (74 %R)	1.3 (79 %R) (7 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Chrysene	< 0.007	1.3 (77 %R)	1.4 (83 %R) (7 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Benzo[b]fluoranthene	< 0.007	1.3 (75 %R)	1.4 (81 %R) (8 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Benzo[k]fluoranthene	< 0.007	1.3 (75 %R)	1.4 (82 %R) (8 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Benzo[a]pyrene	< 0.007	1.3 (77 %R)	1.4 (83 %R) (8 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Indeno[1,2,3-cd]pyrene	< 0.007	1.3 (78 %R)	1.4 (86 %R) (9 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Dibenz[a,h]anthracene	< 0.007	1.3 (77 %R)	1.4 (85 %R) (10 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
Benzo[g,h,i]perylene	< 0.007	1.3 (77 %R)	1.4 (84 %R) (9 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
n-Decane	< 0.34	1.0 (61 %R)	0.99 (60 %R) (2 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
n-Octadecane	< 0.34	1.3 (79 %R)	1.4 (82 %R) (3 RPD)	4/13/2020	mg/kg	40 - 140	30	8270D
2-Fluorophenol (surr)	55 %R	65 %R	64 %R	4/13/2020	mg/kg	30 - 130	30	8270D
Phenol-d6 (surr)	63 %R	71 %R	72 %R	4/13/2020	mg/kg	30 - 130	30	8270D
2,4,6-Tribromophenol (surr)	76 %R	86 %R	92 %R	4/13/2020	mg/kg	30 - 130	30	8270D
Nitrobenzene-D5 (surr)	63 %R	74 %R	75 %R	4/13/2020	mg/kg	30 - 130	30	8270D
2-Fluorobiphenyl (surr)	69 %R	74 %R	76 %R	4/13/2020	mg/kg	30 - 130	30	8270D
p-Terphenyl-D14 (surr)	72 %R	76 %R	82 %R	4/13/2020	mg/kg	30 - 130	30	8270D

Samples were extracted and analyzed within holding time limits.

Instrumentation was calibrated in accordance with the method requirements.

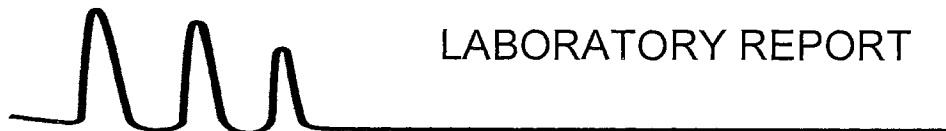
The method blanks were free of contamination at the reporting limits.

Sample surrogate recoveries met the above stated criteria.

The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.

There were no exceptions in the analyses, unless noted.

*If/Flagged analyte recoveries deviated from the QA/QC limits. Unless noted on the sample page, flagged analytes that exceed acceptance limits in the Quality Control sample do not impact the data.



LABORATORY REPORT

EAI ID#: 208303

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Client Sample ID: SB-35 (0-1)
Lab Sample ID: 208303.13
Matrix: soil
Date Sampled: 3/25/20
Date Received: 3/27/20
Date Prepared: 4/2/20
Units: mg/kg
Method: 8270D
Analyst: JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	< 0.008	1	4/2/20		
2-Methylnaphthalene	< 0.008	1	4/2/20		
1-Methylnaphthalene	< 0.008	1	4/2/20		
Acenaphthylene	< 0.008	1	4/2/20		
Acenaphthene	< 0.008	1	4/2/20		
Fluorene	< 0.008	1	4/2/20		
Phenanthrene	0.021	1	4/2/20		
Anthracene	< 0.008	1	4/2/20		
Fluoranthene	0.035	1	4/2/20		
Pyrene	0.029	1	4/2/20		
Benzo[a]anthracene	0.019	1	4/2/20	0.1	.0019
Chrysene	0.019	1	4/2/20	0.001	.000019
Benzo[b]fluoranthene	0.022	1	4/2/20	0.1	.0022
Benzo[k]fluoranthene	0.0085	1	4/2/20	0.01	.000085
Benzo[a]pyrene	0.016	1	4/2/20	1	.016
Indeno[1,2,3-cd]pyrene	< 0.008	1	4/2/20	0.1	< .0008
Dibenz[a,h]anthracene	< 0.008	1	4/2/20	1	< .008
Benzo[g,h,i]perylene	< 0.008	1	4/2/20		
p-Terphenyl-D14 (surr)	69 %R		4/2/20		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.



LABORATORY REPORT

EAI ID#: 208303

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Client Sample ID: SB-36 (0-1)
 Lab Sample ID: 208303.14
 Matrix: soil
 Date Sampled: 3/25/20
 Date Received: 3/27/20
 Date Prepared: 4/2/20
 Units: mg/kg
 Method: 8270D
 Analyst: JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	< 0.008	1	4/2/20		
2-Methylnaphthalene	< 0.008	1	4/2/20		
1-Methylnaphthalene	< 0.008	1	4/2/20		
Acenaphthylene	< 0.008	1	4/2/20		
Acenaphthene	< 0.008	1	4/2/20		
Fluorene	< 0.008	1	4/2/20		
Phenanthrene	< 0.008	1	4/2/20		
Anthracene	< 0.008	1	4/2/20		
Fluoranthene	0.011	1	4/2/20		
Pyrene	0.010	1	4/2/20		
Benzo[a]anthracene	0.0099	1	4/2/20	0.1	.00099
Chrysene	< 0.008	1	4/2/20	0.001	< .00000
Benzo[b]fluoranthene	0.010	1	4/2/20	0.1	.001
Benzo[k]fluoranthene	< 0.008	1	4/2/20	0.01	< .00008
Benzo[a]pyrene	< 0.008	1	4/2/20	1	< .008
Indeno[1,2,3-cd]pyrene	< 0.008	1	4/2/20	0.1	< .0008
Dibenz[a,h]anthracene	< 0.008	1	4/2/20	1	< .008
Benzo[g,h,i]perylene	< 0.008	1	4/2/20		
p-Terphenyl-D14 (surr)	75 %R		4/2/20		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.



LABORATORY REPORT

EAI ID#: 208303

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Client Designation: BBP-3B | 58369.00

Client Sample ID:	SB-37 (0-1)				
Lab Sample ID:	208303.15				
Matrix:	soil				
Date Sampled:	3/25/20				
Date Received:	3/27/20				
Date Prepared:	4/2/20				
Units	mg/kg				
Method	8270D				
Analyst	JMR				
	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	< 0.04	6	4/2/20		
2-Methylnaphthalene	< 0.04	6	4/2/20		
1-Methylnaphthalene	< 0.04	6	4/2/20		
Acenaphthylene	0.081	6	4/2/20		
Acenaphthene	0.071	6	4/2/20		
Fluorene	0.095	6	4/2/20		
Phenanthrene	1.1	6	4/2/20		
Anthracene	0.32	6	4/2/20		
Fluoranthene	2.0	6	4/2/20		
Pyrene	1.5	6	4/2/20		
Benzo[a]anthracene	0.93	6	4/2/20	0.1	.093
Chrysene	1.1	6	4/2/20	0.001	.0011
Benzo[b]fluoranthene	1.4	6	4/2/20	0.1	.14
Benzo[k]fluoranthene	0.50	6	4/2/20	0.01	.005
Benzo[a]pyrene	0.94	6	4/2/20	1	.94
Indeno[1,2,3-cd]pyrene	0.38	6	4/2/20	0.1	.038
Dibenz[a,h]anthracene	0.099	6	4/2/20	1	.099
Benzo[g,h,i]perylene	0.31	6	4/2/20		
p-Terphenyl-D14 (surr)	70 %R		4/2/20		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.

Detection limits elevated due to sample matrix.



LABORATORY REPORT

EAI ID#: 208303

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Client Sample ID: SB-38 (0-1)
 Lab Sample ID: 208303.16
 Matrix: soil
 Date Sampled: 3/25/20
 Date Received: 3/27/20
 Date Prepared: 4/2/20
 Units: mg/kg
 Method: 8270D
 Analyst: JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	0.025	1	4/2/20		
2-Methylnaphthalene	0.025	1	4/2/20		
1-Methylnaphthalene	0.026	1	4/2/20		
Acenaphthylene	0.016	1	4/2/20		
Acenaphthene	0.19	1	4/2/20		
Fluorene	0.25	1	4/2/20		
Phenanthrene	2.0	1	4/2/20		
Anthracene	0.61	1	4/2/20		
Fluoranthene	2.5	1	4/2/20		
Pyrene	1.9	1	4/2/20		
Benzo[a]anthracene	1.2	1	4/2/20	0.1	.12
Chrysene	1.2	1	4/2/20	0.001	.0012
Benzo[b]fluoranthene	1.4	1	4/2/20	0.1	.14
Benzo[k]fluoranthene	0.49	1	4/2/20	0.01	.0049
Benzo[a]pyrene	1.1	1	4/2/20	1	1.1
Indeno[1,2,3-cd]pyrene	0.45	1	4/2/20	0.1	.045
Dibenz[a,h]anthracene	0.13	1	4/2/20	1	.13
Benzo[g,h,i]perylene	0.35	1	4/2/20		
p-Terphenyl-D14 (surr)	68 %R		4/2/20		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.



QC REPORT

EAI ID#: 208303

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Batch ID: 637214-09971/S040220PAH1

Client Designation: BBP-3B | 58369.00

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Naphthalene	< 0.007	1.2 (69 %R)	1.3 (78 %R) (12 RPD)	4/2/2020	mg/kg	40 - 140	30	8270D
2-Methylnaphthalene	< 0.007	1.2 (73 %R)	1.4 (82 %R) (11 RPD)	4/2/2020	mg/kg	40 - 140	30	8270D
1-Methylnaphthalene	< 0.007	1.2 (71 %R)	1.3 (79 %R) (11 RPD)	4/2/2020	mg/kg	40 - 140	30	8270D
Acenaphthylene	< 0.007	1.3 (75 %R)	1.4 (83 %R) (9 RPD)	4/2/2020	mg/kg	40 - 140	30	8270D
Acenaphthene	< 0.007	1.2 (74 %R)	1.4 (82 %R) (10 RPD)	4/2/2020	mg/kg	40 - 140	30	8270D
Fluorene	< 0.007	1.3 (77 %R)	1.4 (83 %R) (8 RPD)	4/2/2020	mg/kg	40 - 140	30	8270D
Phenanthrene	< 0.007	1.3 (78 %R)	1.4 (82 %R) (6 RPD)	4/2/2020	mg/kg	40 - 140	30	8270D
Anthracene	< 0.007	1.3 (78 %R)	1.4 (83 %R) (6 RPD)	4/2/2020	mg/kg	40 - 140	30	8270D
Fluoranthene	< 0.007	1.3 (79 %R)	1.4 (83 %R) (5 RPD)	4/2/2020	mg/kg	40 - 140	30	8270D
Pyrene	< 0.007	1.3 (77 %R)	1.3 (80 %R) (3 RPD)	4/2/2020	mg/kg	40 - 140	30	8270D
Benzo[a]anthracene	< 0.007	1.3 (79 %R)	1.4 (83 %R) (5 RPD)	4/2/2020	mg/kg	40 - 140	30	8270D
Chrysene	< 0.007	1.3 (81 %R)	1.4 (85 %R) (5 RPD)	4/2/2020	mg/kg	40 - 140	30	8270D
Benzo[b]fluoranthene	< 0.007	1.4 (81 %R)	1.4 (84 %R) (3 RPD)	4/2/2020	mg/kg	40 - 140	30	8270D
Benzo[k]fluoranthene	< 0.007	1.3 (80 %R)	1.4 (84 %R) (5 RPD)	4/2/2020	mg/kg	40 - 140	30	8270D
Benzo[a]pyrene	< 0.007	1.4 (83 %R)	1.4 (86 %R) (4 RPD)	4/2/2020	mg/kg	40 - 140	30	8270D
Indeno[1,2,3-cd]pyrene	< 0.007	1.3 (81 %R)	1.4 (85 %R) (6 RPD)	4/2/2020	mg/kg	40 - 140	30	8270D
Dibenz[a,h]anthracene	< 0.007	1.3 (79 %R)	1.4 (83 %R) (5 RPD)	4/2/2020	mg/kg	40 - 140	30	8270D
Benzo[g,h,i]perylene	< 0.007	1.3 (80 %R)	1.4 (83 %R) (4 RPD)	4/2/2020	mg/kg	40 - 140	30	8270D
p-Terphenyl-D14 (surr)	83 %R	80 %R	82 %R	4/2/2020	mg/kg	30 - 130		8270D

Samples were extracted and analyzed within holding time limits.

Instrumentation was calibrated in accordance with the method requirements.

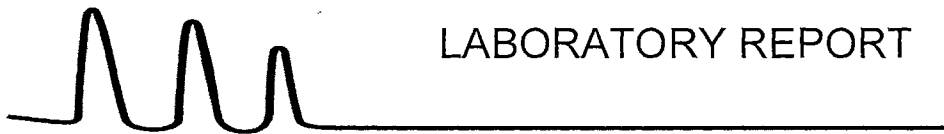
The method blanks were free of contamination at the reporting limits.

Sample surrogate recoveries met the above stated criteria.

The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.

There were no exceptions in the analyses, unless noted.

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.



LABORATORY REPORT

EAI ID#: 208303

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Sample ID: SB-51 (5-7)

Lab Sample ID: 208303.56

Matrix: soil

Date Sampled: 3/26/20

Date Received: 3/27/20

Units: mg/kg

Date of Extraction/Prep: 4/9/20

Date of Analysis: 4/9/20

Analyst: JMR

Method: 8015CDRO

Dilution Factor: 1

DRO (Diesel Range C10-C28) 12

p-Terphenyl-D14 (surr) 64 %R



QC REPORT

EAI ID#: 208303

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Batch ID: 637220-34896/S040920DRO1

Client Designation: BBP-3B | 58369.00

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
DRO (Diesel Range C10-C28)	< 7	46 (63 %R)	47 (64 %R) (1 RPD)	4/9/2020	mg/kg	30 - 160	30	8015CDR
p-Terphenyl-D14 (surr)	82 %R	85 %R	86 %R	4/9/2020	% Rec	30 - 130		8015CDR

Samples were extracted and analyzed within holding time limits.

Instrumentation was calibrated in accordance with the method requirements.

The method blanks were free of contamination at the reporting limits.

Sample surrogate recoveries met the above stated criteria.

The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.

There were no exceptions in the analyses, unless noted.

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.



LABORATORY REPORT

EAI ID#: 208303

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Sample ID: SB-51 (5-7)

Lab Sample ID: 208303.56
Matrix: soil
Date Sampled: 3/26/20
Date Received: 3/27/20
% Solid: 87
Units: mg/kg
Date of Extraction/Prep: 4/9/20
Date of Analysis: 4/13/20
Analyst: MA
Extraction Method: 3540C
Analysis Method: 8081B
Dilution Factor: 1

Aldrin	< 0.006
alpha-BHC	< 0.006
beta-BHC	< 0.006
Lindane(gamma-BHC)	< 0.006
delta-BHC	< 0.006
Chlordane	< 0.02
4,4'-DDT	< 0.006
4,4'-DDE	< 0.006
4,4'-DDD	< 0.006
Dieldrin	< 0.006
Endosulfan I	< 0.006
Endosulfan II	< 0.006
Endosulfan Sulfate	< 0.006
Endrin	< 0.006
Endrin Aldehyde	< 0.006
Endrin Ketone	< 0.006
Heptachlor	< 0.006
Heptachlor Epoxide	< 0.006
Methoxychlor	< 0.006
Toxaphene	< 0.06
TMX (surr)	78 %R
DCB (surr)	44 %R



QC REPORT

EAI ID#: 208303

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Batch ID: 637220-34764/S040820Pest1

Client Designation: BBP-3B | 58369.00

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Aldrin	< 0.005	0.034 (102 %R)	0.034 (102 %R) (0 RPD)	4/13/2020	mg/kg	40 - 140	30	8081B
alpha-BHC	< 0.005	0.028 (85 %R)	0.028 (83 %R) (3 RPD)	4/13/2020	mg/kg	40 - 140	30	8081B
beta-BHC	< 0.005	0.031 (94 %R)	0.030 (91 %R) (3 RPD)	4/13/2020	mg/kg	40 - 140	30	8081B
Lindane(gamma-BHC)	< 0.005	0.036 (109 %R)	0.035 (105 %R) (4 RPD)	4/13/2020	mg/kg	40 - 140	30	8081B
delta-BHC	< 0.005	0.038 (115 %R)	0.035 (106 %R) (8 RPD)	4/13/2020	mg/kg	40 - 140	30	8081B
Chlordane	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	4/13/2020	mg/kg		30	8081B
4,4'-DDT	< 0.005	0.030 (90 %R)	0.028 (85 %R) (6 RPD)	4/13/2020	mg/kg	40 - 140	30	8081B
4,4'-DDE	< 0.005	0.034 (103 %R)	0.034 (101 %R) (1 RPD)	4/13/2020	mg/kg	40 - 140	30	8081B
4,4'-DDD	< 0.005	0.034 (102 %R)	0.033 (99 %R) (3 RPD)	4/13/2020	mg/kg	40 - 140	30	8081B
Dieldrin	< 0.005	0.033 (100 %R)	0.032 (96 %R) (4 RPD)	4/13/2020	mg/kg	40 - 140	30	8081B
Endosulfan I	< 0.005	0.033 (99 %R)	0.032 (96 %R) (4 RPD)	4/13/2020	mg/kg	40 - 140	30	8081B
Endosulfan II	< 0.005	0.029 (87 %R)	0.027 (81 %R) (7 RPD)	4/13/2020	mg/kg	40 - 140	30	8081B
Endosulfan Sulfate	< 0.005	0.039 (116 %R)	0.036 (107 %R) (8 RPD)	4/13/2020	mg/kg	40 - 140	30	8081B
Endrin	< 0.005	0.035 (104 %R)	0.033 (100 %R) (4 RPD)	4/13/2020	mg/kg	40 - 140	30	8081B
Endrin Aldehyde	< 0.005	0.034 (101 %R)	0.030 (89 %R) (12 RPD)	4/13/2020	mg/kg	40 - 140	30	8081B
Endrin Ketone	< 0.005	0.035 (106 %R)	0.033 (98 %R) (7 RPD)	4/13/2020	mg/kg	40 - 140	30	8081B
Heptachlor	< 0.005	0.033 (98 %R)	0.033 (99 %R) (1 RPD)	4/13/2020	mg/kg	40 - 140	30	8081B
Heptachlor Epoxide	< 0.005	0.031 (93 %R)	0.031 (92 %R) (1 RPD)	4/13/2020	mg/kg	40 - 140	30	8081B
Methoxychlor	< 0.005	0.034 (101 %R)	0.032 (97 %R) (5 RPD)	4/13/2020	mg/kg	40 - 140	30	8081B
Toxaphene	< 0.05	< 0.05 (%R N/A)	< 0.05 (%R N/A) (RPD N/A)	4/13/2020	mg/kg			8081B
TMX (surr)	83 %R	88 %R	89 %R	4/13/2020	mg/kg	30 - 150	30	8081B
DCB (surr)	66 %R	78 %R	76 %R	4/13/2020	mg/kg	30 - 150	30	8081B

Samples were extracted and analyzed within holding time limits.

Instrumentation was calibrated in accordance with the method requirements.

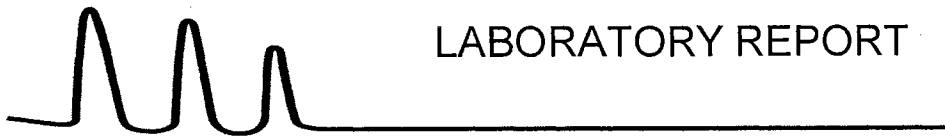
The method blanks were free of contamination at the reporting limits.

Sample surrogate recoveries met the above stated criteria.

The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.

There were no exceptions in the analyses, unless noted.

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted on the sample page, flagged analytes that exceed acceptance limits in the Quality Control sample do not impact the data.



LABORATORY REPORT

EAI ID#: 208303

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Sample ID: SB-51 (5-7)

Lab Sample ID: 208303.56
Matrix: soil
Date Sampled: 3/26/20
Date Received: 3/27/20
% Solid: 87
Units: mg/kg
Date of Extraction/Prep: 4/9/20
Date of Analysis: 4/10/20
Analyst: MA
Extraction Method: 3540C
Analysis Method: 8082A
Dilution Factor: 1

PCB-1016	< 0.02
PCB-1221	< 0.02
PCB-1232	< 0.02
PCB-1242	< 0.02
PCB-1248	< 0.02
PCB-1254	< 0.02
PCB-1260	< 0.02
PCB-1262	< 0.02
PCB-1268	< 0.02
TMX (surr)	86 %R
DCB (surr)	78 %R

Acid clean-up was performed on the samples and associated batch QC.



QC REPORT

EAI ID#: 208303

Client: Vanasse Hangen Brustlin, Inc. (VHB)

Batch ID: 637219-44370/S040820PCB1

Client Designation: BBP-3B | 58369.00

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
PCB-1016	< 0.02	0.12 (92 %R)	0.13 (95 %R) (3 RPD)	4/9/2020	mg/kg	40 - 140	30	8082A
PCB-1221	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	4/9/2020	mg/kg			8082A
PCB-1232	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	4/9/2020	mg/kg			8082A
PCB-1242	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	4/9/2020	mg/kg			8082A
PCB-1248	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	4/9/2020	mg/kg			8082A
PCB-1254	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	4/9/2020	mg/kg			8082A
PCB-1260	< 0.02	0.12 (88 %R)	0.12 (91 %R) (4 RPD)	4/9/2020	mg/kg	40 - 140	30	8082A
PCB-1262	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	4/9/2020	mg/kg			8082A
PCB-1268	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	4/9/2020	mg/kg			8082A
TMX (surr)	87 %R	84 %R	85 %R	4/9/2020	% Rec	30 - 150	30	8082A
DCB (surr)	90 %R	87 %R	90 %R	4/9/2020	% Rec	30 - 150	30	8082A

Samples were extracted and analyzed within holding time limits.

Instrumentation was calibrated in accordance with the method requirements.

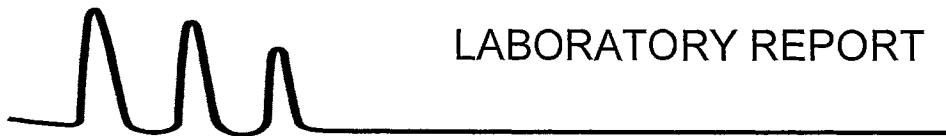
The method blanks were free of contamination at the reporting limits.

Sample surrogate recoveries met the above stated criteria.

The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.

There were no exceptions in the analyses, unless noted.

*// Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.



LABORATORY REPORT

EAI ID#: 208303

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Sample ID: SB-51 (5-7)

Lab Sample ID: 208303.56

Matrix: soil

Date Sampled: 3/26/20

Date Received: 3/27/20

pH **7.73**

Ignitability **Pass**

Reactive Cyanide **< 1**

Reactive Sulfide **< 10**

Units	Analysis		Method	Analyst
	Date	Time		
SU	4/11/20	10:55	9045	KJD
None	4/10/20	14:45	1030	SEL
mg/kg	4/09/20	11:30	7.3.3.2	ATA
mg/kg	4/09/20	11:30	7.3.4.2	ATA

SB-51 (5-7): The sample associated with pH and Ignitability were analyzed past hold time.



QC REPORT

EAI ID#: 208303

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
pH	NA	6.02	6.04	SU	4/11/20	7.91 - 8.09	10	9045
Reactive Cyanide	< 1	12 (12 %R)	NA	mg/kg	4/9/20	0 - 73		7.3.3.2
Reactive Sulfide	< 10	13 (65 %R)	NA	mg/kg	4/9/20	10 - 160		7.3.4.2

Samples were analyzed within holding times unless noted on the sample results page.

Instrumentation was calibrated in accordance with the method requirements.

The method blanks were free of contamination at the reporting limits.

The associated matrix spikes and/or Laboratory Control Samples met the above stated criteria.

Exceptions to the above statements are flagged or noted above or on the QC Narrative page.

*! Flagged analyte recoveries deviated from the QA/QC limits.



LABORATORY REPORT

EAI ID#: 208303

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Sample ID: SB-51 (5-7)

Lab Sample ID: 208303.56

Matrix: soil

Date Sampled: 3/26/20

Date Received: 3/27/20

Arsenic	3.6
Barium	18
Cadmium	< 0.5
Chromium	14
Lead	11
Mercury	< 0.1
Selenium	< 0.5
Silver	< 0.5

Analytical Matrix	Units	Date of Analysis	Method	Analyst
SolTotDry	mg/kg	4/10/20	6020	DS
SolTotDry	mg/kg	4/10/20	6020	DS
SolTotDry	mg/kg	4/10/20	6020	DS
SolTotDry	mg/kg	4/10/20	6020	DS
SolTotDry	mg/kg	4/10/20	6020	DS
SolTotDry	mg/kg	4/10/20	6020	DS
SolTotDry	mg/kg	4/10/20	6020	DS
SolTotDry	mg/kg	4/10/20	6020	DS



QC REPORT

EAI ID#: 208303

Client: **Vanasse Hangen Brustlin, Inc. (VHB)**

Client Designation: **BBP-3B | 58369.00**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Arsenic	< 0.5	40 (99 %R)	NA	mg/kg	4/10/20	80 - 120	20	6020
Barium	< 0.5	38 (95 %R)	NA	mg/kg	4/10/20	80 - 120	20	6020
Cadmium	< 0.5	40 (100 %R)	NA	mg/kg	4/10/20	80 - 120	20	6020
Chromium	< 0.5	41 (102 %R)	NA	mg/kg	4/10/20	80 - 120	20	6020
Lead	< 0.5	40 (100 %R)	NA	mg/kg	4/10/20	80 - 120	20	6020
Mercury	< 0.1	0.39 (97 %R)	NA	mg/kg	4/10/20	80 - 120	20	6020
Selenium	< 0.5	39 (98 %R)	NA	mg/kg	4/10/20	80 - 120	20	6020
Silver	< 0.5	40 (101 %R)	NA	mg/kg	4/10/20	80 - 120	20	6020

Samples were analyzed within holding times unless noted on the sample results page.

Instrumentation was calibrated in accordance with the method requirements.

The method blanks were free of contamination at the reporting limits.

The associated matrix spikes and/or Laboratory Control Samples met the above stated criteria.

Exceptions to the above statements are flagged or noted above or on the QC Narrative page.

*! Flagged analyte recoveries deviated from the QA/QC limits.



Thursday, April 16, 2020

Attn: Front Office
Eastern Analytical
25 Chenell Drive
Concord, NH 03301

Project ID: 208303
SDG ID: GCF72659
Sample ID#s: CF72659

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



SDG Comments

April 16, 2020

SDG I.D.: GCF72659

Sample CF72659 was received past hold time for Soil Extraction for Herbicide (SW8151A).



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

April 16, 2020

SDG I.D.: GCF72659

Project ID: 208303

Client Id	Lab Id	Matrix
SB-51 (5-7)	CF72659	SOIL



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 16, 2020

FOR: Attn: Front Office
Eastern Analytical
25 Chenell Drive
Concord, NH 03301

Sample Information

Matrix: SOIL
Location Code: EASTANAL
Rush Request: Standard
P.O.#: 52313

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

03/26/20 14:15
04/14/20 10:54

Laboratory Data

SDG ID: GCF72659
Phoenix ID: CF72659

Project ID: 208303
Client ID: SB-51 (5-7)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		04/14/20	VT	SW846-%Solid
Soil Extraction for Herbicide	Completed				04/14/20	J/D	SW8151A

Chlorinated Herbicides

2,4,5-T	ND	94	ug/Kg	10	04/15/20	JRB	SW8151A
2,4,5-TP (Silvex)	ND	94	ug/Kg	10	04/15/20	JRB	SW8151A
2,4-D	ND	190	ug/Kg	10	04/15/20	JRB	SW8151A
2,4-DB	ND	940	ug/Kg	10	04/15/20	JRB	SW8151A
Dalapon	ND	94	ug/Kg	10	04/15/20	JRB	SW8151A
Dicamba	ND	94	ug/Kg	10	04/15/20	JRB	SW8151A
Dichloroprop	ND	140	ug/Kg	10	04/15/20	JRB	SW8151A
Dinoseb	ND	94	ug/Kg	10	04/15/20	JRB	SW8151A
MCPA	ND	28000	ug/Kg	10	04/15/20	JRB	SW8151A
MCP	ND	28000	ug/Kg	10	04/15/20	JRB	SW8151A

QA/QC Surrogates

% DCAA	87		%	10	04/15/20	JRB	30 - 150 %
% DCAA (Confirmation)	101		%	10	04/15/20	JRB	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

April 16, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

Tel. (860) 645-1102

Fax (860) 645-0823

QA/QC Report

April 16, 2020

QA/QC Data

SDG I.D.: GCF72659

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 526244 (ug/Kg), QC Sample No: CF61327 10X (CF72659)										
<u>Chlorinated Herbicides - Soil</u>										
2,4,5-T	ND	83	82	79	3.7	81			40 - 140	30
2,4,5-TP (Silvex)	ND	83	83	79	4.9	79			40 - 140	30
2,4-D	ND	170	86	85	1.2	83			40 - 140	30
2,4-DB	ND	1700	87	82	5.9	84			40 - 140	30
Dalapon	ND	83	60	49	20.2	65			40 - 140	30
Dicamba	ND	83	84	80	4.9	82			40 - 140	30
Dichloroprop	ND	83	96	95	1.0	92			40 - 140	30
Dinoseb	ND	83	84	80	4.9	85			40 - 140	30
MCPA	ND	25000	69	70	1.4	64			40 - 140	30
MCPP	ND	25000	76	75	1.3	75			40 - 140	30
% DCAA (Surrogate Rec)	61	%	61	59	3.3	59			30 - 150	30
% DCAA (Surrogate Rec) (Confirm	57	%	64	62	3.2	61			30 - 150	30

Comment:

This batch consists of a Blank, LCS, LCSD and MS.

Additional criteria: LCS acceptance range is 40-140% MS acceptance range 30-150%.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director

April 16, 2020

Thursday, April 16, 2020

Criteria: None

State: VT

Sample No Acode

Phoenix Analyte

Criteria

Result

RL

Criteria

RL
Criteria
Analysis
Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedance information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Sample Criteria Exceedances Report

GCF72659 - EASTANAL



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Comments

April 16, 2020

SDG I.D.: GCF72659

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

Herbicide Narration

AU-ECD12 04/15/20-1: CF72659

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CF72659

Preceding CC 415B015 - None.

Succeeding CC 415B026 - MCPA (6) 17%L (15%)

CHAIN-OF-CUSTODY RECORD

EA ID# 208303

Page 1

Sample ID Date Sampled Matrix aParameters

SB-51 (5-7) 3/26/2020 soil Subcontract - Herbicides 8151

14:15

72659

#402 Soil Jar. (mjb)

EA ID# 208303

Project State: VT

Project ID: 5016

Company Phoenix Environmental Labs

Address 587 East Middle Turnpike

Address Manchester, CT 06040

Account #

Phone # (860) 645-1102

Results Needed: Preferred Date: Standard

RUSH Due Date: _____

QC Deliverables

☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ MA MCP

Notes about project:

Email login confirmation, pdf of results and invoice to customerservice@easternanalytical.com.

OK to run fast hold
Per Alison. (UB)

PO #: 52313

EA ID# 208303

Data Deliverable (circle)

Excel NH EMD EQUIS ME EGAD

Call prior to analyzing, if RUSH charges will be applied.

Samples Collected by:

Relinquished by: Alison Date/Time: 4/14/20 10:54 Received by: UBS Date/Time: 4/14/20 15:00

Relinquished by

Date/Time

Received by

Eastern Analytical, Inc. 25 Chenell Dr. Concord, NH 03301

Phone: (603)228-0525 1-800-287-0525

customerservice@easternanalytical.com

As a subcontract lab to EAI, you will defend, indemnify and hold Eastern Analytical, Inc., its officers, employees, and agents harmless from and against any and all liability, loss, expense or claims for injury or damages arising out of the performance against this chain of custody but only in proportion to and to the extent such liability, loss, expense, or claims for injury or damages are caused by or result from the negligent or intentional acts or omissions of you as a subcontract lab, your officers, agents or employees

208303

38

PRESENATIVE: H-HCl; N-HNO₃; S-H₂SO₄; Na-NaOH; M-MEON

NOTES	# of CONTAINERS
MEOH VIAL #	2
	3
50048	3
50067	3
50038	3
50085	3
50071	3
50028	3
50039	3
50049	3
50069	3

208303

40

All samples on hold

NOTES
MEOH VIAL #

CHAIN-OF-CUSTODY RECORD

[FOR LAB USE ONLY]

208303

BOLD FIELDS REQUIRED. PLEASE CIRCLE REQUESTED ANALYSIS.

SAMPLE I.D.	SAMPLING DATE/TIME *IF COMPOSITE, INDICATE BOTH START & FINISH DATE/TIME	MATRIX (SEE BELOW)	GRAB/*COMPOSITE	VOC		SVOC		TCMP METALS		INORGANICS		MICRO		OTHER		NOTES # OF CONTAINERS MeOH Vial #					
				524.2 524.2 BTEX 8260 624 1, 4 DIOXANE	524.2 MTBE ONLY VTICS	8021 BTEX HALOS	8015 GRO MAVPH	8270 625 SVTICS EDB DBCP ABN A BN PAH	TPH8100 LI L2	8015 DRO MAEPH	PEST 608 PCB 608 PEST 8081 PCB 8082	OIL & GREASE 1664 TPH 1664	TCMP 1311 ABN METALS VOC PEST HERB	DISSOLVED METALS (LIST BELOW)	TOTAL METALS (LIST BELOW)		TS TSS TDS SPEC. CON.	Br Cl F SO ₄ NO ₂ NO ₃ NO ₃ NO ₂	BOD CBOD T. ALK.	TKN NH ₃ T. PHOS. O. PHOS.	pH T. RES. CHLORINE
SB-53(0-1)	3/26/20/1030	SG	SG													3	50054				
SB-52(0-1)	1040	SG	SG													3	50044				
SB-51(0-1)	1050															3	50043				
SB-50(0-1)	1110															3	50034				
SB-49(0-1)	1115															3	50063				
SB-48(0-1)	1120															3	50032				
SB-47(0-1)	1135															3	50033				
SB-46(0-1)	1140															3	50012				
SB-45(0-1)	1150															3	50012				

MATRIX: A-AIR; S-SOIL; GW-GROUND WATER; SW-SURFACE WATER; DW-DRINKING WATER;
WW-WASTE WATER
PRESERVATIVE: H-HCl; N-HNO₃; S-H₂SO₄; Na-NaOH; M-MEON

PROJECT MANAGER: Kurt Miller
COMPANY: VHB
ADDRESS:
CITY: STATE: ZIP:
PHONE: 802-770-1270 EXT.:
FAX:
E-MAIL:
SITE NAME: BPP-3B
PROJECT #: 5836000
STATE: NH MA ME VT OTHER:
REGULATORY PROGRAM: NPDES: RGP POTW STORMWATER OR
GWP, OIL FUND, BROWNFIELD OR OTHER:
QUOTE #: 1017431 PO #:
REINQUISHED BY: DATE: TIME: RECEIVED BY: 3/26/20 10:40
REINQUISHED BY: DATE: TIME: RECEIVED BY: 3/27/20 10:40
REINQUISHED BY: DATE: TIME: RECEIVED BY: 3/27/20 14:10
REINQUISHED BY: DATE: TIME: RECEIVED BY: 3/27/20 14:10

DATE NEEDED: DATE: TIME: RECEIVED BY: 3/27/20 14:10

QA/QC REPORTING LEVEL A B C OR MA MCP ELECTRONIC OPTIONS E-MAIL PDF EQUUS EXCEL

TEMP: 2.1 °C ICE? YES NO

METALS: 8 RCRA 13 PP FE, MN, PB, CU
OTHER METALS:
SAMPLES FIELD FILTERED? YES NO
NOTES: (E- SPECIAL DETECTION LIMITS, BILLING INFO, IF DIFFERENT)

SUSPECTED CONTAMINATION: FIELD READINGS:

25 CHENELL DRIVE

CONCORD, NH 03301

TEL: 603.228.0525 | 1.800.267.0525

E-MAIL: CUSTOMER.SERVICE@EASTERNANALYTICAL.COM | WWW.EASTERNANALYTICAL.COM

(WHITE: ORIGINAL GREEN: PROJECT MANAGER)

CHAIN-OF-CUSTODY RECORD

BOLD FIELDS REQUIRED. PLEASE CIRCLE REQUESTED ANALYSIS.

FOR LAB USE ONLY
208303

SAMPLE I.D.	SAMPLING DATE/TIME *IF COMPOSITE, INDICATE BOTH START & FINISH DATE/TIME	MATRIX (SEE BELOW)	Grab/*Composite	VOC		SVOC		TCMP METALS		INORGANICS		Micro		OTHER	NOTES MeOH Vol. #							
				524.2 524.2 BTEX 8260 624 1, 4 Dioxane	524.2 MTBE ONLY VTICS	8021 BTEX HALOS	8015 GRO MAVPH	8270 625 SVTICS EDB DBCP ABN A BN PAM	TPH8100 LI L2	8015 DRO MAEPH	PEST 608 PCB 608 PEST 8081 PCB 8082	OIL & GREASE 1664 TPH 1664	TCMP 1311 ABN METALS VOC PEST HERB			DISSOLVED METALS (LIST BELOW)	TOTAL METALS (LIST BELOW)	TS TSS TDS SPEC. CON.	Br Cl F SO ₄ NO ₂ NO ₃ NO ₃ NO ₂	BOD CBOD T. ALK.	TKN NH ₃ T. PHOS. O. PHOS.	pH T. RES. CHLORINE
SR-44 (0-1)	3/26/00/1215	SG													3	50050						
SR-43 (0-1)	1/22/00														3	50064						
SR-42 (0-1)	1/23/00														3	50063						
SR-41 (0-1)	1/24/00														3	50086						
SR-40 (0-3)	1/25/00														3	50088						
SR-39 (0-3)	1/25/00														3	50087						
SR-38 (0-3)	1/25/00														3	50087						
SR-37 (0-3)	1/25/00														3	50087						
SR-36 (0-3)	1/25/00														3	50087						
SR-35 (0-3)	1/25/00														3	50087						
SR-34 (0-3)	1/25/00														3	50087						
SR-33 (0-3)	1/25/00														3	50087						
SR-32 (0-3)	1/25/00														3	50087						
SR-31 (0-3)	1/25/00														3	50087						
SR-30 (0-3)	1/25/00														3	50087						
SR-29 (0-3)	1/25/00														3	50087						
SR-28 (0-3)	1/25/00														3	50087						
SR-27 (0-3)	1/25/00														3	50087						
SR-26 (0-3)	1/25/00														3	50087						
SR-25 (0-3)	1/25/00														3	50087						
SR-24 (0-3)	1/25/00														3	50087						
SR-23 (0-3)	1/25/00														3	50087						
SR-22 (0-3)	1/25/00														3	50087						
SR-21 (0-3)	1/25/00														3	50087						
SR-20 (0-3)	1/25/00														3	50087						
SR-19 (0-3)	1/25/00														3	50087						
SR-18 (0-3)	1/25/00														3	50087						
SR-17 (0-3)	1/25/00														3	50087						
SR-16 (0-3)	1/25/00														3	50087						
SR-15 (0-3)	1/25/00														3	50087						
SR-14 (0-3)	1/25/00														3	50087						
SR-13 (0-3)	1/25/00														3	50087						
SR-12 (0-3)	1/25/00														3	50087						
SR-11 (0-3)	1/25/00														3	50087						
SR-10 (0-3)	1/25/00														3	50087						
SR-9 (0-3)	1/25/00														3	50087						
SR-8 (0-3)	1/25/00														3	50087						
SR-7 (0-3)	1/25/00														3	50087						
SR-6 (0-3)	1/25/00														3	50087						
SR-5 (0-3)	1/25/00														3	50087						
SR-4 (0-3)	1/25/00														3	50087						
SR-3 (0-3)	1/25/00														3	50087						
SR-2 (0-3)	1/25/00														3	50087						
SR-1 (0-3)	1/25/00														3	50087						

PROJECT MANAGER: Kurt Muller

COMPANY: VHB

ADDRESS:

CITY: STATE: ZIP:

PHONE: 802-778-1278 **EXT.:**

FAX:

E-MAIL:

SITE NAME: 644-33

PROJECT #: 58369.00

STATE: NH MA ME VT OTHER:

REGULATORY PROGRAM: NPDES: RPT POTW STORMWATER OR GMP, OIL FUND, BROWNFIELD OR OTHER:

QUOTE #: 1017431 **PO #:**

DATE NEEDED:

QA/QC REPORTING LEVEL: A B C

REPORTING OPTIONS: PRELIMS: YES OR NO

ELECTRONIC OPTIONS: E-MAIL PDF EQUIS EXCEL

SAMPLES: 644-33

RELINQUISHED BY: 3/27/00 10:40

DATE: 3-27-2004 14:10

TIME:

RECEIVED BY:

DATE:

TIME:

TEMP: 2.1 °C

ICE: YES NO

METALS: 8 RCBA 13 PP FE, MN PB, CU

OTHER METALS:

SAMPLES FIELD FILTERED? YES NO

NOTES: (IE: SPECIAL DETECTION LIMITS, BILLING INFO, IF DIFFERENT)

SUSPECTED CONTAMINATION:

FIELD READINGS:

RELINQUISHED BY:

DATE:

TIME:

RECEIVED BY:

DATE:

TIME:

TEMP: 2.1 °C

ICE: YES NO

METALS: 8 RCBA 13 PP FE, MN PB, CU

OTHER METALS:

SAMPLES FIELD FILTERED? YES NO

NOTES: (IE: SPECIAL DETECTION LIMITS, BILLING INFO, IF DIFFERENT)

SUSPECTED CONTAMINATION:

FIELD READINGS:

Minor CAP Amendment: Burlington Greenway Rehabilitation - Phase 3
April 24, 2020



ATTACHMENT E
PUBLIC NOTICE INFORMATION FOR PHASE 3A SOUTH AND PHASE 3B



State of Vermont
Department of Environmental Conservation
Waste Management & Prevention Division
Davis Building - 1st Floor, One National Life Drive
Montpelier, VT 05620-3704

OFFICIAL NOTICE

Dear _____,

This is an official notice that a draft Corrective Action Plan (CAP) has been prepared by _____ on behalf of _____ for the _____ site. Vermont law requires that adjoining and/or impacted property owners receive notice of this CAP, as well as being provided a 30 day public comment period.

The CAP approval process includes a public comment period and an opportunity to request a public meeting. Note that in order to appeal a final CAP approval, comments must be submitted during the public comment period.

To view the draft CAP, please visit the Environmental Notice Bulletin (ENB) at ENB.VERMONT.GOV, and enter the site number: _____ in the "Permit #" space.

FOR QUESTIONS CONTACT:

Waste Management & Prevention Division, Sites Management Section (SMS)

SMS Site Manager: _____

SMS Site Manager email address: _____

(802) 828-1138

C: SMS Site Manager (via email) _____

SITE NUMBER

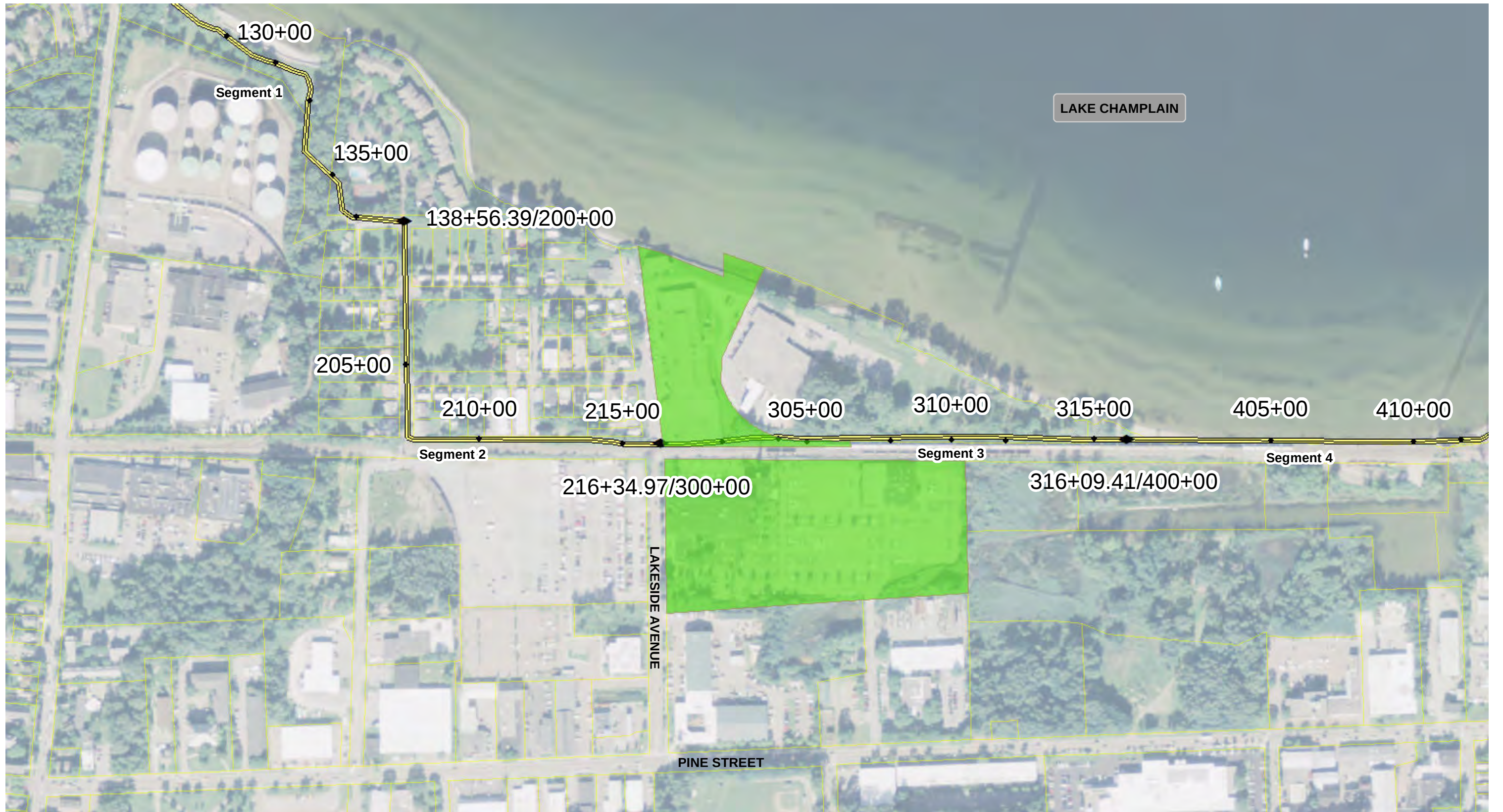
NAME OF POTENTIALLY RESPONSIBLE PARTY

LOCATION OF CORRECTIVE ACTION STREET ADDRESS/ROUTE

TOWN(S) WHERE PROPOSED CORRECTIVE ACTION WILL TAKE PLACE

List of Abutting Property Owners
Burlington Greenway Rehabilitation - Phase 3B
Corrective Action Plan

Parcel ID	SPAN	Property Location	Owner	Mailing Address	City, State, Zip Code
053-2-011-000	114-035-18335	44 LAKESIDE AV	LAKESIDE OVENS LLC	PO BOX 69 C/O MATTHEW T. DALY	BURLINGTON, VT 5401
053-2-010-000	114-035-18334	128 LAKESIDE AV	FORTIETH BURLINGTON LLC	7 JACKSON WALKWAY	PROVIDENCE, RI 02903



0 85 170 340 510 680
Feet

Sources: Waterbodies, streams, contours, parcels, town boundaries, and roads, all provided by Vermont Center for Geographic Information (VCGI). Imagery provided by VCGI (2014).

Legend

- Abutting Properties - Phase 3B
- Burlington Parcels
- Proposed Burlington Greenway Bike Path

Stations

- Segment Start/End Station
- Intermediate Station



40 IDX Drive
Building 100, Suite 200
South Burlington, VT 05403

Drawn by: SGH	Date: 4/09/2020
Reviewed by: JKM	Date: 4/15/2020
Approved by: JKM	Date: 4/15/2020

Scale: 1 in = 330 ft Project: 58369.00

FIGURE 1 - ABUTTING PROPERTIES MAP
BURLINGTON GREENWAY
REHABILITATION PROJECT - PHASE 3B
BURLINGTON, VERMONT