
**Northern Waterfront Parcel
Penny Lane
Burlington, Vermont
05401**



KAS#512150387

Phase II Environmental Site Assessment Report

March 11, 2016

Prepared for:

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1.0 REPORT PREPARATION / CERTIFICATION

This Phase II Environmental Site Assessment Report was prepared pursuant to ASTM 1903-11 by KAS, Inc. for Burlington Harbor Marina, LLC of Burlington, Vermont. The report was prepared by Jeremy Roberts, Environmental Program Manager and EP (Environmental Professional) and was reviewed by Erik Sandblom, EP. This report accurately represents the findings of the Phase II Environmental Site Assessment to the best of our knowledge.

A handwritten signature in black ink, appearing to read "J.R.", positioned above a horizontal line.

Prepared by: Jeremy Roberts, Environmental Program Manager, EP

A handwritten signature in blue ink, appearing to read "E.S.", positioned above a horizontal line.

Reviewed By: Erik Sandblom, EP

2.0 INTRODUCTION

This report summarizes the results of a Phase II Environmental Site Assessment (ESA) completed at lands located within tax map parcel #043-4-004 along the northern waterfront in the City of Burlington, Vermont (property). A site location map is included in Appendix A. The Phase II ESA was performed by KAS, Inc. (KAS) in accordance with the American Society for Testing and Materials (ASTM) Practice ASTM E 1903-11. KAS performed this Phase II ESA for Burlington Harbor Marina, LLC of Burlington, Vermont, herein referred to as Client. Burlington Harbor Marina, LLC is the Phase II ESA document user.

3.0 SITE DESCRIPTION

The property is located along the northern waterfront of the City of Burlington, Vermont (see Appendix A Site Location Map) within a mixed commercial/industrial/residential area. The nearest road is Penny Lane. The property itself does not have an established address as there are no commercial or residential buildings present on the property. The property is located in the City of Burlington on Tax Map #043-4 and is identified as lot # 043-4-004¹. The property consists of areas of land within parcel #043-4-004 and the areas are positioned between buildings and portions of Penny Lane (See Site Map, Appendix A). The property coordinates are 44° 28' 53.70" north latitude and 73° 13' 24.30" west longitude².

The property is predominantly used for parking spaces with one structure and some open green spaces present. The one structure is used as a gathering spot / pavilion. Green spaces are generally present around the parking areas.

The general area of the property consists of mixed commercial, industrial and residential development. Nearby businesses include a community sailing center, marinas, US Coast Guard, Burlington Electric department and the City of Burlington water department. Residential properties are mainly present in the vicinity of the property to the east. Additional parking areas and marinas are present further to the south. The main area of the Burlington waterfront is present to the south along Lake Champlain.

4.0 BACKGROUND

A Phase I ESA was completed at the property in December 2015. The assessment revealed four recognized environmental conditions (RECs) in connection with the property or adjacent properties as outlined below:

1. The presence of a hazardous waste site on the adjacent properties to the north (Moran Plant) and southeast (Alden Waterfront) with associated documented soil and/or groundwater contamination on or in the immediate vicinity of the property;
2. The noted presence of a fill pipe along the south side of the Burlington Water Department Pump Station building which lies immediately adjacent to the property;
3. The documented presence of fill material with contaminants indicative of "urban fill" in the immediate vicinity to the property; and,
4. The historical presence of a "coal house" and use of coal on or immediately adjacent to the property.

¹ Burlington zoning department

² EnviroSite Report page 1

The current and historical presence of a railway line in the immediate vicinity of the property is considered to be a de minimis condition. De minimis conditions are not recognized environmental conditions. The closed hazardous waste site identified as Burlington Electric SMS #90-0540 is considered to be a historical REC.

The area has a long history of industrial use which has led to documented subsurface contamination. Soil and groundwater data collected on or in the immediate vicinity of the property has indicated subsurface contamination is present at specific locations. A Corrective Action Plan (CAP) was prepared in August 2011 for the adjacent property to the north and this plan includes portions of the property.

5.0 SUMMARY OF PLANNED REDEVELOPMENT

As of March 2016, conceptual redevelopment plans are in place for the property. These plans consist of replacing two existing parking lot areas, removing trees and re-landscaping green space along the waterfront, installing subsurface utilities between the City of Burlington Water Department and US Coast Guard buildings, removing the existing pavilion located to the west of the City of Burlington Water Department and installing an electric transformer and underground vault in the vicinity of the removed pavilion. The preliminary conceptual plans have also considered the potential installation of a storm water treatment basin east of the Burlington Electric Department building (see Site Plan, Appendix A). The planned depths of excavation to conduct these redevelopment activities range from surface grade up to approximately 10 feet below grade (fbg).

6.0 OBJECTIVES

The objective of this Phase II ESA is to evaluate and document subsurface conditions in the areas planned for redevelopment on the property and to provide information relevant to evaluating and allocating business environmental risk associated with the potential leasing of the property.

The means by which this objective was completed included the advancement of soil borings at eight selected locations, field screening and visual assessment of soils, and laboratory analysis of soil within each boring at select intervals and groundwater at one location. These tasks are further described in Section 7.0.

7.0 SOIL BORINGS / SOIL AND GROUNDWATER SAMPLING

Eight soil borings were advanced at the property on February 22, 2016. The locations were selected based on the locations of the proposed redevelopment areas, and to achieve adequate samples to determine potential impact to the site for environmental analysis (See Site Map, Appendix A).

7.1 Pre-Drilling Activities

Prior to the initiation of subsurface activities, KAS pre-marked potential drilling locations on February 10, 2016 as required by DigSafe. DigSafe Number 2016-0602563 was obtained on February 11, 2016. The City of Burlington was notified to locate service utility lines that may exist up to and/or on the property that may not be marked out by DigSafe. Prior to the drilling activities, KAS prepared a health and safety plan for the work.

7.2 Field Screening of Subsurface Soils

On February 22, 2016, soil borings were advanced at the property by Enpro Services, Inc. of Burlington, Vermont under the supervision of a KAS scientist. Soil borings were advanced using a track-mounted geoprobe drill rig. Soil borings were advanced to depths ranging from 6-8 feet below surface grade (bsg) (see Site Map; Appendix A). Each soil boring was advanced in an attempt to extend beneath the observed water table depth. Refusal was encountered at SB-3 at 6 feet bsg. Groundwater was encountered in all eight borings at depths ranging from approximately 4 – 7.5 feet bsg. Soils in the borings generally consisted of sand and gravel with some intervals of silty sand.

Soil samples were collected continuously at each boring location. The soil samples were logged by the supervising scientist and screened for volatile organic compounds (VOCs) using a MiniRae Lite model PID equipped with a 10.6 eV bulb. Prior to screening, the PID was calibrated with isobutylene with reference made to benzene. Soils were screened using the *KAS Jar/Polyethylene Bag Headspace Screening Protocol*. Soil characteristics and PID measurements were recorded by the supervising scientist (see Soil Classification Data; Appendix C). PID readings ranged from 0.0 – 38.2 parts per million volume (ppmv). A non-distinct odor was noted at soil boring SB-7 at the 1 – 4 foot soil interval. No odors or staining were noted at any other soil boring location.

7.3 Soil Sampling and Laboratory Analysis Results

On February 22, 2016, one soil sample was collected from each soil boring for laboratory analysis except at soil boring SB-2 where two samples were collected. The soil samples were collected from each boring at intervals that are best representative of the planned excavation depths for that particular area. The sample depths were as follows: SB-1 (0 – 2 feet), SB-2 (0 – 2; PCBs only and 6 – 8 feet), SB-3, SB-4 and SB-5 (0 – 2 feet), SB-6 (4 – 6 feet), SB-7 and SB-8 (1 – 4 feet). The soil samples were submitted for analysis of: VOCs via EPA Method 8260B with methanol preservation via EPA Method 5035, polycyclic aromatic hydrocarbons (PAHs) via EPA Method 8270D, RCRA 8 metals via EPA Method 6020, polychlorinated biphenyls (PCBs) via EPA Method 8082, and total petroleum hydrocarbon (TPH) via EPA Method 8100.

The soil samples were submitted under proper chain of custody procedures to Eastern Analytical, Inc. of Concord, New Hampshire (EAI). The results have been tabulated and compared to the most recent soil screening values (SSVs) and Vermont Department of Health (VDH) values as outlined in the Investigation and Remediation of Contaminated Properties Procedure (IROCP) document dated April 2012. The analytical laboratory report is included in Appendix D. The following is a summary of the results:

VOCs via EPA Method 8260B: No VOCs were reported at concentrations above laboratory reporting limits in any of the soil samples.

PAHs via EPA Method 8270D: Per IROCP, a specific list of PAHs that are toxicologically-similar to Benzo(a)Pyrene (BaP) are multiplied by their Toxic Equivalency Factors (TEFs) specified by the EPA, and then reported as a total Toxic Equivalency Quotient (TEQ) to BaP. In other words, PAHs that are toxicologically-similar to BaP are normalized to BaP. The total BaP TEQ for all sample locations except SB-2 and SB-7 exceeded the VDH and industrial SSVs. The concentrations were reported to be highest at SB-3, SB-6 and SB-8 with lower concentrations noted at the other five soil boring locations. The PAH levels are generally in line with levels previously detected in the vicinity of the property.

RCRA 8 Metals via EPA Method 6020: Concentrations of metals were reported for all soil samples obtained. The concentration of arsenic was above the industrial SSV at all sample locations. The arsenic levels are generally in line with levels previously detected in the vicinity of the property and appear to be within the normal background range for the property and for Vermont soils (currently understood to be around 10 mg/kg).

TPH via EPA Method 8100: TPH was reported in soils obtained from five of the eight sample locations at levels below the industrial SSVs. The reported TPH concentration ranged from 30 – 250 mg/kg.

PCBs via EPA Method 8082: No PCBs were detected above the laboratory detection limits in any of the soil samples collected except at soil boring SB-4. At SB-4, a concentration of Aroclor 1254 and Aroclor 1260 were detected at a concentration of 0.10 and 0.026 mg/kg, respectively. The reported concentrations were below the industrial SSVs.

7.4 Groundwater Sampling and Laboratory Analysis Results

On February 22, 2016, a groundwater sample was collected from soil boring SB-6 for laboratory analysis of total VOCs via EPA Method 8260B with Hydrochloric Acid preservation. The sample was collected from this boring using a peristaltic pump. One trip blank was submitted for quality assurance and control purposes.

The groundwater samples were submitted under proper chain of custody procedures to EAI. The analytical laboratory report is included in Appendix D. No VOCs were reported at concentrations above laboratory reporting limits in the groundwater sample collected on February 22, 2016.

8.0 CONCLUSIONS

Based on the Phase II ESA completed in conformance with the scope and limitations of ASTM Practice ASTM E 1903-11 at lands located along the northern waterfront in the City of Burlington, Vermont the following conclusions are offered:

1. Soil borings were advanced on the property on February 22, 2016 to depths ranging from 6 - 8 feet bsg. Groundwater was encountered at each of the soil boring locations. The boring locations were selected based on the proposed redevelopment areas, and to achieve adequate samples to determine potential impacts to the site for environmental analysis;
2. PID readings in the soil borings ranged from 0.0 – 38.2 ppmv. A non-distinct odor was noted at soil boring SB-7 at the 1 – 4 foot soil interval. No odors or staining were noted at any other soil boring location;
3. Soil samples were obtained from all eight borings advanced on February 22, 2016 for analysis of VOCs, PCBs, PAHs, TPH and metals. The samples contained no VOCs above laboratory detection limits. Concentrations of PAHs and arsenic were reported above industrial soil screening values. TPH was reported at five locations below industrial SSVs. PCBs were detected at one boring location at concentrations below industrial SSVs;
4. Although an elevated PID reading and odor was noted in the soil sample collected from SB-7 the laboratory analysis of the sample indicated no VOCs, TPH, or PAHs were present. This indicates the contamination present at this location is likely highly weathered;

5. A groundwater sample was collected from soil boring SB-6 on February 22, 2016 for analysis of VOCs. No VOCs were reported above laboratory detection limits;
6. Overall, the soil data collected in February 2016 is generally consistent with the data obtained during past investigations at and in the vicinity of the property; and,
7. Increased costs for redevelopment would be incurred if the soils will need to be disposed of offsite; however, based on the findings it appears the planned redevelopment activities can occur in accordance with the existing CAP prepared for the area, which includes reuse of soils on-site with proper management.

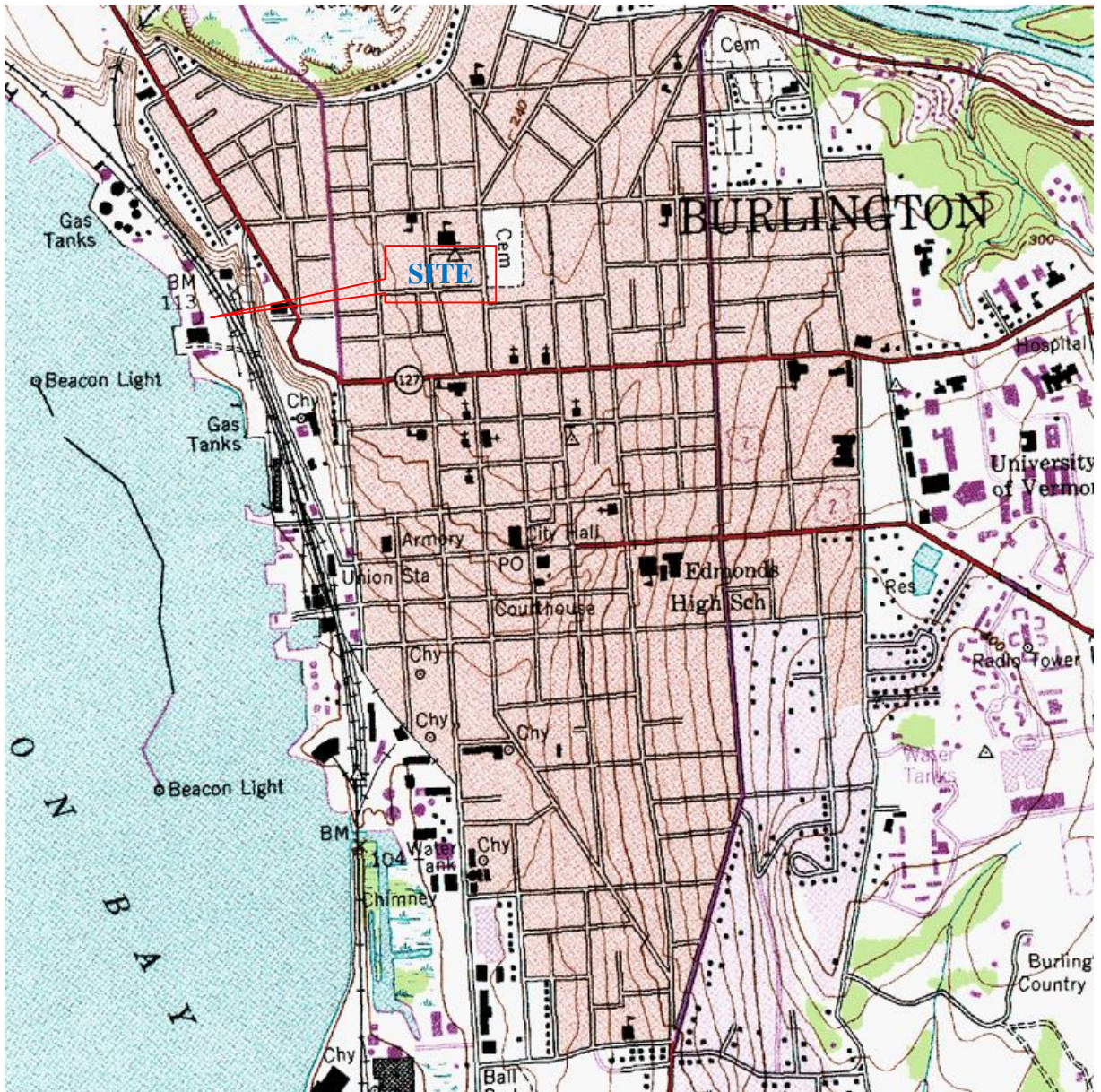
9.0 RECOMMENDATIONS

Based on the above listed conclusions, KAS recommends no further environmental work be conducted to assess subsurface conditions prior to redevelopment occurring. The soil and groundwater data collected as part of this Phase II ESA should be shared with the VTDEC along with the final redevelopment plans and the planned redevelopment should be incorporated into the existing CAP via an addendum.



APPENDIX A

- 1) SITE LOCATION MAP*
- 2) SITE MAP*



JOB # 511150384



Northern Waterfront

Penny Lane
Burlington, Vermont

Site Location Map

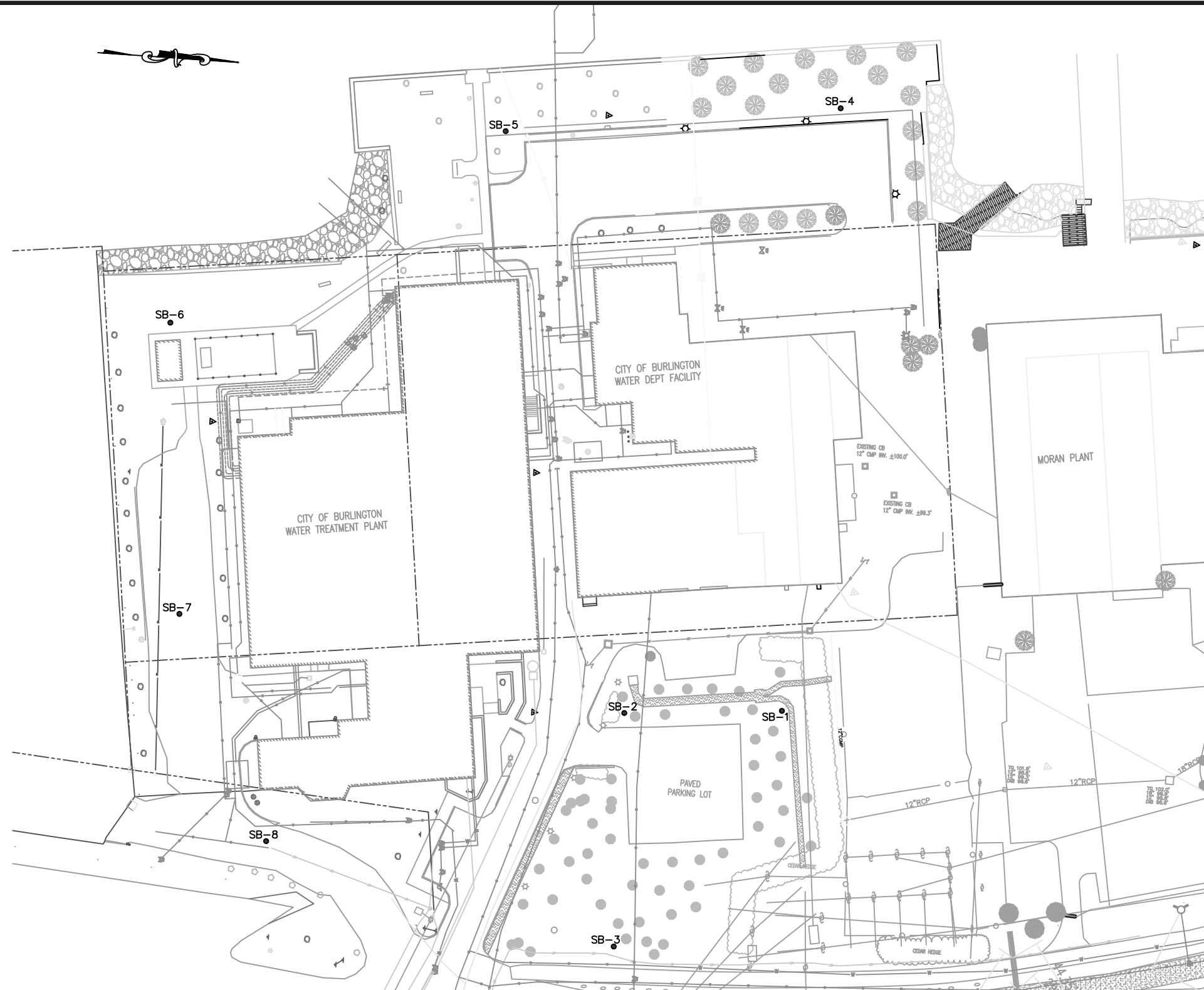
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Date: 12/21/15

Drawing: #1

Scale: 1:24,000"

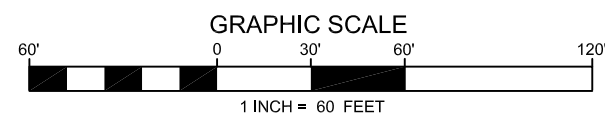
By: JR



KAS # 512150387

LEGEND

- SB-1 SOIL BORING
- TREES
- PROPERTY LINE
- WATER LINE
- STORM SEWER



NOTE: BASE MAP PROVIDED BY CIVIL ENGINEERING ASSOCIATES, INC. OF SOUTH BURLINGTON, VERMONT

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BURLINGTON WATERFRONT
PENNY LANE
BURLINGTON, VERMONT

SITE MAP

DATE: 3/11/16	DWG. #: 1	SCALE: 1"=60'	DRN.: TB	APP.: JR
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APPENDIX B

PHOTOGRAPHIC DOCUMENTATION



Photographic Documentation
Phase II Environmental Site Assessment
Burlington Waterfront
Burlington, VT
KAS # 512150387

Photograph ID: 001

Date: February 22, 2016

Location:

Property

Direction:

Facing north

View of SB-1 location



Photograph ID: 002

Date: February 22, 2016

Location:

Property

Direction:

Facing west

Comments:

View of SB-2 location





Photographic Documentation
Phase II Environmental Site Assessment
Burlington Waterfront
Burlington, VT
KAS # 512150387

Photograph ID: 003

Date: February 22, 2016

Location:
Property

Direction:
Facing west

Comments:

View of SB-3 location



Photograph ID: 004

Date: February 22, 2016

Location:
Property

Direction:
Facing north

Comments:

View of SB-4 location





Photographic Documentation
Phase II Environmental Site Assessment
Burlington Waterfront
Burlington, VT
KAS # 512150387

Photograph ID: 005

Date: February 22, 2016

Location:
Property

Direction:
Facing south

Comments:

View of SB-5 location



Photograph ID: 006

Date: February 22, 2016

Location:
Property

Direction:
Facing southwest

Comments:

View of SB-6 location





Photographic Documentation
Phase II Environmental Site Assessment
Burlington Waterfront
Burlington, VT
KAS # 512150387

Photograph ID: 007

Date: February 22, 2016

Location:
Property

Direction:
Facing south

Comments:

View of SB-7 location



Photograph ID: 008

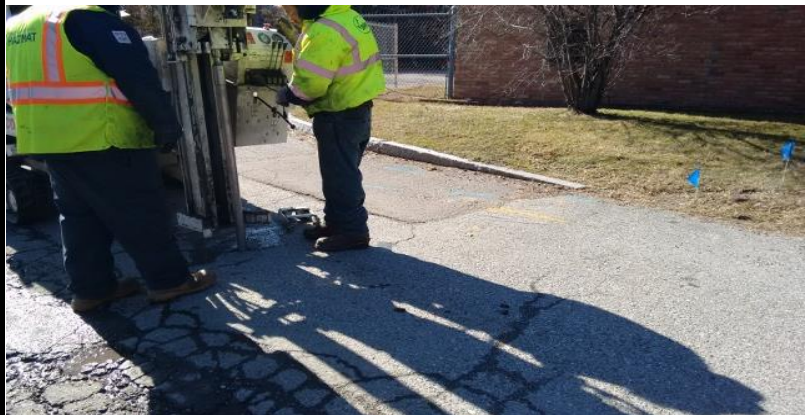
Date: February 22, 2016

Location:
Property

Direction:
Facing southwest

Comments:

View of SB-8 location





APPENDIX C

SOIL CLASSIFICATION DATA SOIL DATA SUMMARY



Soil Classification Data:

Location	Soil Boring	Depth (feet)	Soil Symbol	Group Name	Odor	PID (ppm)
north of eastern parking lot	SB-1	0-2*	SW-GW	Well Graded Sand with Gravel	No	0.4
		2-4	SW-GW	Well Graded Sand with Gravel	No	0.8
		4-8	SM-GM	Sandy Silt with Gravel	No	0.2
west of eastern parking lot	SB-2	0-2*	SW-GW	Well Graded Sand with Gravel	No	0.1
		2-4	SW-GW	Well Graded Sand with Gravel	No	0.2
		4-6	SM	Silty Sand with Gravel	No	0.3
		6-8*	SM	Silty Sand with Gravel	No	0.1
east of eastern parking lot	SB-3	0-2*	SW-GW	Well Graded Sand with Gravel	No	0.2
		2-4	SW-GW	Well Graded Sand with Gravel	No	0.3
		4-6	SM	Silty Sand	No	0.3
northwest end of western parking lot	SB-4	0-2*	SW-GW	Well Graded Sand with Gravel	No	0.0
		2-4	SW-GW	Well Graded Sand with Gravel	No	0.0
		4-8	SW-GW	Well Graded Sand with Gravel	No	0.0
southwest end of western parking lot	SB-5	0-2*	SW-GW	Well Graded Sand with Gravel	No	0.4
		2-4	SW-GW	Well Graded Sand with Gravel	No	0.1
		4-8	SM	Silty Sand	No	0.5
west side of pavilion	SB-6	0-4	SW-GW	Well Graded Sand with Gravel	No	0.4
		4-6*	SM	Silty Sand	No	0.4
		6-8^	SM	Silty Sand	No	0.3
between water dept and coast guard building	SB-7	0-1	SW-GW	Well Graded Sand with Gravel	No	0.3
		1-4*	SW-GW	Well Graded Sand with Gravel	Yes	38.2
		4-8	SW-GW	Well Graded Sand with Gravel	No	0.4
east of water dept building	SB-8	0-1	SW-GW	Well Graded Sand with Gravel	No	0.3
		1-4*	SW-GW	Well Graded Sand with Gravel	No	1.0
		4-8	SW	Well Graded Sand	No	2.9

^ Collected groundwater sample for laboratory analysis of VOCs via EPA Method 8260B

* Collected soil sample for laboratory analysis of VOCs via EPA Method 8260B



Soil Sampling Data Summary - PAHs
Burlington Waterfront
Burlington, Vermont

Soil Sample	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8	IROCP	VDH
Sample Depth (ft.)	0-2	6-8	0-2	0-2	0-2	4-6	1-4	1-4	SSV	Values
Sample Date	2/22/16	2/22/16	2/22/16	2/22/16	2/22/16	2/22/16	2/22/16	2/22/16	Industrial	
PAHs, EPA Method 8270, Benzo(a)Pyrene TEQ (mg/kg)										
Benzo(a)anthracene	0.0058	ND<0.008	0.02	0.002	0.0081	0.02	ND<0.008	0.018	NA	NA
Benzo(b)fluoranthene	0.0083	ND<0.008	0.028	0.003	0.0096	0.035	ND<0.008	0.036		
Benzo(k)fluoranthene	0.00032	ND<0.008	0.001	0.00011	0.00036	0.0014	ND<0.008	0.0012		
Benzo(a)pyrene	0.063	ND<0.008	0.21	0.026	0.081	0.27	ND<0.008	0.26		
Chrysene	0.00064	ND<0.008	0.0022	0.00017	0.00078	0.0021	ND<0.008	0.0020		
Dibenz(a,h)anthracene	0.014	ND<0.008	0.030	ND<0.008	0.013	0.038	ND<0.008	0.041		
Indeno(1,2,3-cd)pyrene	0.006	ND<0.008	0.01	0.0019	0.0045	0.11	ND<0.008	0.017		
Total Benzo(a)Pyrene TEQ	0.10	ND	0.30	0.03	0.12	0.48	ND	0.38	0.21	0.01

NOTES:

All values reported in mg/kg, dry, unless otherwise indicated

IROCP = April 2012 Investigation and Remediation of Contaminated Properties document

SSV = Soil Screening Values from Appendix A of the IROCP with EPA Regional Screening Levels updated in November 2015

ND<xx = Not Detected< Detection Limit

Results reported above detection limits are indicated in bold

Detection limits and reported concentrations at or above the Residential SSV or VDH are shaded.

NA = No IROCP SSV available

TEQ=Toxic Equivalency Quotient based on toxicity equivalency factors (TEF) from EPA document: "Mid-Atlantic Risk Assessment User's Guide: November 2013"

VDH = Vermont Department of Health Soil Screening Values

Total Benzo(a)Pyrene TEQ at or above the VDH or SSVs are shaded.



Soil Sampling Data Summary - Metals
Burlington Waterfront
Burlington, Vermont

Soil Sample	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8	IROCP	VDH
Sample Depth (ft.)	0-2	6-8	0-2	0-2	0-2	4-6	1-4	1-4	SSV	Values
Sample Date	2/22/16	2/22/16	2/22/16	2/22/16	2/22/16	2/22/16	2/22/16	2/22/16	Industrial	
TOTAL METALS (mg/kg, dry)										
Total Arsenic	5.3	3.1	5.3	4.6	5.1	4.9	4.1	3.8	3.0	NA
Total Barium	39	20	43	41	41	45	25	33	220,000	NA
Total Cadmium	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	980	65.6
Total Chromium	17	13	14	16	16	16	14	15	NA	NA
Total Lead	28	3.8	26	11	14	32	7.5	16	800	NA
Total Mercury	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	46	NA
Total Selenium	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5,800	NA
Total Silver	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5,800	NA

NOTES:

All values reported in mg/kg, dry, unless otherwise indicated.

IROCP = April 2012 Investigation and Remediation of Contaminated Properties document updated May 2014

SSV= Soil Screening Values from Appendix A of the IROCP

ND<xx = Not Detected< Detection Limit

Results reported above detection limits are indicated in bold

Detection limits and reported concentrations at or above the Industrial SSV or VDH are shaded

NDC Means the published threshold is not directly comparable to the data as reported

VDH = Vermont Department of Health Soil Screening Values

NA = No IROCP SSV available



Soil Sampling Data Summary - TPH
Burlington Waterfront
Burlington, Vermont

Soil Sample	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8	IROCP
Sample Depth (ft.)	0-2	6-8	0-2	0-2	0-2	4-6	1-4	1-4	SSV
Sample Date	2/22/16	2/22/16	2/22/16	2/22/16	2/22/16	2/22/16	2/22/16	2/22/16	Industrial
TPH, EPA Method 8100									
TPH (mg/kg, dry)	31	ND<20	150	ND<20	30	250	ND<20	48	33,000

NOTES:

All values reported in mg/kg, dry, unless otherwise indicated.

IROCP = April 2012 Investigation and Remediation of Contaminated Properties document

SSV = Soil Screening Values from Appendix A of the IROCP with EPA Regional Screening Levels updated in November 2015

ND<xx = Not Detected< Detection Limit

Results reported above detection limits are indicated in bold

Detection limits and reported concentrations at or above the Residential SSV are shaded.



Soil Sampling Data Summary - PCBs
Burlington Waterfront
Burlington, Vermont

Soil Sample	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8	IROCP	VDH
Sample Depth (ft.)	0-2	0-2	0-2	0-2	0-2	4-6	1-4	1-4	SSV	Values
Sample Date	2/22/16	2/22/16	2/22/16	2/22/16	2/22/16	2/22/16	2/22/16	2/22/16	Industrial	
PCBs, EPA Method 8082 (mg/kg)										
Aroclor 1016	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	27	NA
Aroclor 1221	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	0.83	NA
Aroclor 1232	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	0.72	NA
Aroclor 1242	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	0.95	NA
Aroclor 1248	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	0.95	NA
Aroclor 1254	ND<0.02	ND<0.02	ND<0.02	0.10	ND<0.02	ND<0.02	ND<0.02	ND<0.02	0.97	NA
Aroclor 1260	ND<0.02	ND<0.02	ND<0.02	0.026	ND<0.02	ND<0.02	ND<0.02	ND<0.02	0.99	NA
Aroclor 1262	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	NA	NA
Aroclor 1268	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	NA	NA
Total Reported PCBs	ND	ND	ND	0.126	ND	ND	ND	ND	NA	0.120

NOTES:

All values reported in mg/kg, dry, unless otherwise indicated.

IROCP = April 2012 Investigation and Remediation of Contaminated Properties document.

SSV= Soil Screening Values from Appendix A of the IROCP

ND<xx = Not Detected< Detection Limit

Results reported above detection limits are indicated in bold

Detection limits and reported concentrations at or above the Industrial SSV or VDH are shaded.

NA = No IROCP SSV available

VDH = Vermont Department of Health Soil Screening Values



APPENDIX D

ANALYTICAL LABORATORY REPORT



Jeremy Roberts
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Subject: Laboratory Report

Eastern Analytical, Inc. ID: 153268
Client Identification: Burlington Waterfront | 512150387
Date Received: 2/23/2016

Dear Mr. Roberts :

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.

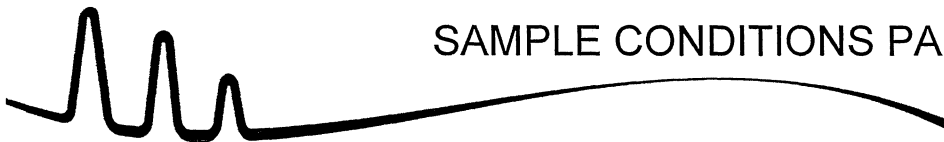
We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,


Lorraine Olashaw, Lab Director

3-3-16
Date

27
of pages (excluding cover letter)



SAMPLE CONDITIONS PAGE

EAI ID#: 153268

Client: KAS, Inc.

Client Designation: Burlington Waterfront | 512150387

Temperature upon receipt (°C): 2.1

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

Acceptable temperature range (°C): 0-6

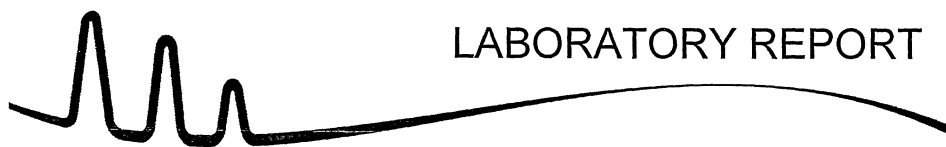
Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
153268.01	GW	2/23/16	2/22/16	aqueous		Adheres to Sample Acceptance Policy
153268.02	SB-1 (0-2)	2/23/16	2/22/16	soil	85.3	Adheres to Sample Acceptance Policy
153268.03	SB-2 (0-2)	2/23/16	2/22/16	soil	88.9	Adheres to Sample Acceptance Policy
153268.04	SB-2 (6-8)	2/23/16	2/22/16	soil	83.4	Adheres to Sample Acceptance Policy
153268.05	SB-3 (0-2)	2/23/16	2/22/16	soil	89.2	Adheres to Sample Acceptance Policy
153268.06	SB-4 (0-2)	2/23/16	2/22/16	soil	90.0	Adheres to Sample Acceptance Policy
153268.07	SB-5 (0-2)	2/23/16	2/22/16	soil	87.6	Adheres to Sample Acceptance Policy
153268.08	SB-6 (4-6)	2/23/16	2/22/16	soil	90.7	Adheres to Sample Acceptance Policy
153268.09	SB-7 (1-4)	2/23/16	2/22/16	soil	85.8	Adheres to Sample Acceptance Policy
153268.1	SB-8 (1-4)	2/23/16	2/22/16	soil	88.9	Adheres to Sample Acceptance Policy
153268.11	Trip Blank	2/23/16	2/22/16	soil	100.0	Adheres to Sample Acceptance Policy
153268.12	Trip Blank	2/23/16	12/23/15	aqueous		Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, 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 Edition, 1998 and 22nd Edition, 2012
- 3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- 4) Hach Water Analysis Handbook, 2nd edition, 1992



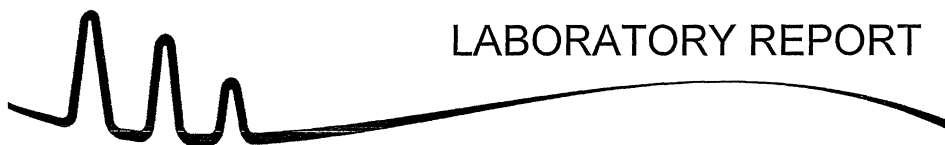
LABORATORY REPORT

EAI ID#: 153268

Client: KAS, Inc.

Client Designation: Burlington Waterfront | 512150387

Sample ID:	GW	SB-1 (0-2)	SB-2 (6-8)	SB-3 (0-2)	SB-4 (0-2)	SB-5 (0-2)	SB-6 (4-6)
Lab Sample ID:	153268.01	153268.02	153268.04	153268.05	153268.06	153268.07	153268.08
Matrix:	aqueous	soil	soil	soil	soil	soil	soil
Date Sampled:	2/22/16	2/22/16	2/22/16	2/22/16	2/22/16	2/22/16	2/22/16
Date Received:	2/23/16	2/23/16	2/23/16	2/23/16	2/23/16	2/23/16	2/23/16
Units:	ug/l	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Analysis:	2/24/16	2/29/16	2/25/16	2/25/16	2/25/16	2/25/16	2/25/16
Analyst:	BAM	BML	BML	BML	BML	BML	BML
Method:	8260B	8260B	8260B	8260B	8260B	8260B	8260B
Dilution Factor:	1	1	1	1	1	1	1
Dichlorodifluoromethane	< 5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chloromethane	< 2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Vinyl chloride	< 2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bromomethane	< 2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chloroethane	< 5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Trichlorofluoromethane	< 5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Diethyl Ether	< 5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acetone	< 10	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Methylene chloride	< 5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Carbon disulfide	< 5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Methyl-t-butyl ether(MTBE)	< 5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,2-Dichloroethene	< 2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1-Dichloroethane	< 2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,2-Dichloropropane	< 2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
cis-1,2-Dichloroethene	< 2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Butanone(MEK)	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	< 2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Tetrahydrofuran(THF)	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	< 2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1,1-Trichloroethane	< 2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Carbon tetrachloride	< 2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1-Dichloropropene	< 2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzene	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichloroethane	< 2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Trichloroethene	< 2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichloropropane	< 2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibromomethane	< 2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bromodichloromethane	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Methyl-2-pentanone(MIBK)	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,3-Dichloropropene	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Toluene	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
trans-1,3-Dichloropropene	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1,2-Trichloroethane	< 2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Hexanone	< 10	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tetrachloroethene	< 2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,3-Dichloropropane	< 2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibromochloromethane	< 2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dibromoethane(EDB)	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chlorobenzene	< 2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1,1,2-Tetrachloroethane	< 2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ethylbenzene	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
mp-Xylene	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
o-Xylene	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Styrene	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bromoform	< 2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
IsoPropylbenzene	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05



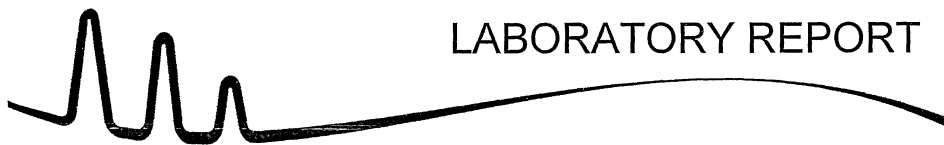
LABORATORY REPORT

EAI ID#: 153268

Client: KAS, Inc.

Client Designation: Burlington Waterfront | 512150387

Sample ID:	GW	SB-1 (0-2)	SB-2 (6-8)	SB-3 (0-2)	SB-4 (0-2)	SB-5 (0-2)	SB-6 (4-6)
Lab Sample ID:	153268.01	153268.02	153268.04	153268.05	153268.06	153268.07	153268.08
Matrix:	aqueous	soil	soil	soil	soil	soil	soil
Date Sampled:	2/22/16	2/22/16	2/22/16	2/22/16	2/22/16	2/22/16	2/22/16
Date Received:	2/23/16	2/23/16	2/23/16	2/23/16	2/23/16	2/23/16	2/23/16
Units:	ug/l	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Analysis:	2/24/16	2/29/16	2/25/16	2/25/16	2/25/16	2/25/16	2/25/16
Analyst:	BAM	BML	BML	BML	BML	BML	BML
Method:	8260B	8260B	8260B	8260B	8260B	8260B	8260B
Dilution Factor:	1	1	1	1	1	1	1
Bromobenzene	< 2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1,2,2-Tetrachloroethane	< 2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2,3-Trichloropropane	< 2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
n-Propylbenzene	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Chlorotoluene	< 2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chlorotoluene	< 2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,3,5-Trimethylbenzene	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
tert-Butylbenzene	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trimethylbenzene	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
sec-Butylbenzene	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,3-Dichlorobenzene	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
p-Isopropyltoluene	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,4-Dichlorobenzene	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichlorobenzene	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
n-Butylbenzene	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dibromo-3-chloropropane	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trichlorobenzene	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobutadiene	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	< 5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2,3-Trichlorobenzene	< 1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Bromofluorobenzene (surr)	98 %R	97 %R	98 %R	98 %R	97 %R	98 %R	100 %R
1,2-Dichlorobenzene-d4 (surr)	106 %R	100 %R	101 %R	100 %R	100 %R	102 %R	100 %R
Toluene-d8 (surr)	96 %R	101 %R	99 %R	99 %R	99 %R	99 %R	101 %R



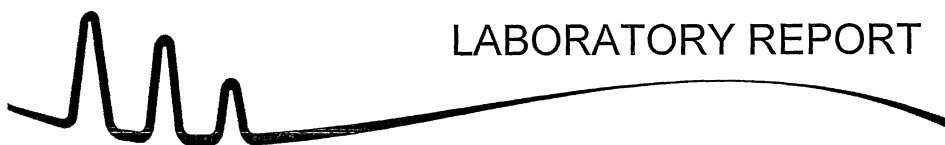
LABORATORY REPORT

EAI ID#: 153268

Client: KAS, Inc.

Client Designation: Burlington Waterfront | 512150387

Sample ID:	SB-7 (1-4)	SB-8 (1-4)	Trip Blank	Trip Blank
Lab Sample ID:	153268.09	153268.1	153268.11	153268.12
Matrix:	soil	soil	soil	aqueous
Date Sampled:	2/22/16	2/22/16	2/22/16	12/23/15
Date Received:	2/23/16	2/23/16	2/23/16	2/23/16
Units:	mg/kg	mg/kg	mg/kg	ug/l
Date of Analysis:	2/25/16	2/29/16	2/29/16	2/24/16
Analyst:	BML	BML	BML	BAM
Method:	8260B	8260B	8260B	8260B
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 0.1	< 0.1	< 0.1	< 5
Chloromethane	< 0.1	< 0.1	< 0.1	< 2
Vinyl chloride	< 0.1	< 0.1	< 0.1	< 2
Bromomethane	< 0.1	< 0.1	< 0.1	< 2
Chloroethane	< 0.1	< 0.1	< 0.1	< 5
Trichlorofluoromethane	< 0.1	< 0.1	< 0.1	< 5
Diethyl Ether	< 0.05	< 0.05	< 0.05	< 5
Acetone	< 2	< 2	< 2	< 10
1,1-Dichloroethene	< 0.05	< 0.05	< 0.05	< 1
Methylene chloride	< 0.1	< 0.1	< 0.1	< 5
Carbon disulfide	< 0.1	< 0.1	< 0.1	< 5
Methyl-t-butyl ether(MTBE)	< 0.1	< 0.1	< 0.1	< 5
trans-1,2-Dichloroethene	< 0.05	< 0.05	< 0.05	< 2
1,1-Dichloroethane	< 0.05	< 0.05	< 0.05	< 2
2,2-Dichloropropane	< 0.05	< 0.05	< 0.05	< 2
cis-1,2-Dichloroethene	< 0.05	< 0.05	< 0.05	< 2
2-Butanone(MEK)	< 0.5	< 0.5	< 0.5	< 10
Bromochloromethane	< 0.05	< 0.05	< 0.05	< 2
Tetrahydrofuran(THF)	< 0.5	< 0.5	< 0.5	< 10
Chloroform	< 0.05	< 0.05	< 0.05	< 2
1,1,1-Trichloroethane	< 0.05	< 0.05	< 0.05	< 2
Carbon tetrachloride	< 0.05	< 0.05	< 0.05	< 2
1,1-Dichloropropene	< 0.05	< 0.05	< 0.05	< 2
Benzene	< 0.05	< 0.05	< 0.05	< 1
1,2-Dichloroethane	< 0.05	< 0.05	< 0.05	< 2
Trichloroethene	< 0.05	< 0.05	< 0.05	< 2
1,2-Dichloropropane	< 0.05	< 0.05	< 0.05	< 2
Dibromomethane	< 0.05	< 0.05	< 0.05	< 2
Bromodichloromethane	< 0.05	< 0.05	< 0.05	< 1
4-Methyl-2-pentanone(MIBK)	< 0.5	< 0.5	< 0.5	< 10
cis-1,3-Dichloropropene	< 0.05	< 0.05	< 0.05	< 1
Toluene	< 0.05	< 0.05	< 0.05	< 1
trans-1,3-Dichloropropene	< 0.05	< 0.05	< 0.05	< 1
1,1,2-Trichloroethane	< 0.05	< 0.05	< 0.05	< 2
2-Hexanone	< 0.1	< 0.1	< 0.1	< 10
Tetrachloroethene	< 0.05	< 0.05	< 0.05	< 2
1,3-Dichloropropane	< 0.05	< 0.05	< 0.05	< 2
Dibromochloromethane	< 0.05	< 0.05	< 0.05	< 2
1,2-Dibromoethane(EDB)	< 0.05	< 0.05	< 0.05	< 1
Chlorobenzene	< 0.05	< 0.05	< 0.05	< 2
1,1,1,2-Tetrachloroethane	< 0.05	< 0.05	< 0.05	< 2
Ethylbenzene	< 0.05	< 0.05	< 0.05	< 1
mp-Xylene	< 0.05	< 0.05	< 0.05	< 1
o-Xylene	< 0.05	< 0.05	< 0.05	< 1
Styrene	< 0.05	< 0.05	< 0.05	< 1
Bromoform	< 0.05	< 0.05	< 0.05	< 2
IsoPropylbenzene	< 0.05	< 0.05	< 0.05	< 1



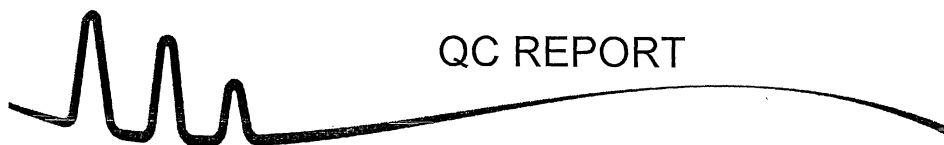
LABORATORY REPORT

EAI ID#: 153268

Client: KAS, Inc.

Client Designation: Burlington Waterfront | 512150387

Sample ID:	SB-7 (1-4)	SB-8 (1-4)	Trip Blank	Trip Blank
Lab Sample ID:	153268.09	153268.1	153268.11	153268.12
Matrix:	soil	soil	soil	aqueous
Date Sampled:	2/22/16	2/22/16	2/22/16	12/23/15
Date Received:	2/23/16	2/23/16	2/23/16	2/23/16
Units:	mg/kg	mg/kg	mg/kg	ug/l
Date of Analysis:	2/25/16	2/29/16	2/29/16	2/24/16
Analyst:	BML	BML	BML	BAM
Method:	8260B	8260B	8260B	8260B
Dilution Factor:	1	1	1	1
Bromobenzene	< 0.05	< 0.05	< 0.05	< 2
1,1,2,2-Tetrachloroethane	< 0.05	< 0.05	< 0.05	< 2
1,2,3-Trichloropropane	< 0.05	< 0.05	< 0.05	< 2
n-Propylbenzene	< 0.05	< 0.05	< 0.05	< 1
2-Chlorotoluene	< 0.05	< 0.05	< 0.05	< 2
4-Chlorotoluene	< 0.05	< 0.05	< 0.05	< 2
1,3,5-Trimethylbenzene	< 0.05	< 0.05	< 0.05	< 1
tert-Butylbenzene	< 0.05	< 0.05	< 0.05	< 1
1,2,4-Trimethylbenzene	< 0.05	< 0.05	< 0.05	< 1
sec-Butylbenzene	< 0.05	< 0.05	< 0.05	< 1
1,3-Dichlorobenzene	< 0.05	< 0.05	< 0.05	< 1
p-Isopropyltoluene	< 0.05	< 0.05	< 0.05	< 1
1,4-Dichlorobenzene	< 0.05	< 0.05	< 0.05	< 1
1,2-Dichlorobenzene	< 0.05	< 0.05	< 0.05	< 1
n-Butylbenzene	< 0.05	< 0.05	< 0.05	< 1
1,2-Dibromo-3-chloropropane	< 0.05	< 0.05	< 0.05	< 1
1,2,4-Trichlorobenzene	< 0.05	< 0.05	< 0.05	< 1
Hexachlorobutadiene	< 0.05	< 0.05	< 0.05	< 1
Naphthalene	< 0.1	< 0.1	< 0.1	< 5
1,2,3-Trichlorobenzene	< 0.05	< 0.05	< 0.05	< 1
4-Bromofluorobenzene (surr)	98 %R	97 %R	97 %R	96 %R
1,2-Dichlorobenzene-d4 (surr)	101 %R	99 %R	101 %R	104 %R
Toluene-d8 (surr)	98 %R	99 %R	102 %R	96 %R



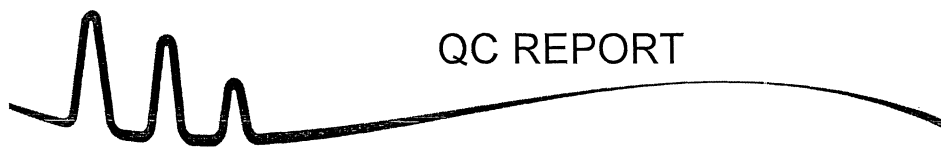
QC REPORT

EAI ID#: 153268

Client: KAS, Inc.

Client Designation: Burlington Waterfront | 512150387

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 5	20 (98 %R)	20 (100 %R) (2 RPD)	2/24/2016	ug/l	40 - 160	20	8260B
Chloromethane	< 2	19 (97 %R)	19 (95 %R) (2 RPD)	2/24/2016	ug/l	40 - 160	20	8260B
Vinyl chloride	< 2	18 (88 %R)	17 (87 %R) (1 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
Bromomethane	< 2	22 (109 %R)	24 (119 %R) (9 RPD)	2/24/2016	ug/l	40 - 160	20	8260B
Chloroethane	< 5	21 (106 %R)	21 (107 %R) (1 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
Trichlorofluoromethane	< 5	20 (98 %R)	19 (94 %R) (4 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
Diethyl Ether	< 5	21 (106 %R)	22 (108 %R) (2 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
Acetone	< 10	20 (107 %R)	20 (109 %R) (2 RPD)	2/24/2016	ug/l	40 - 160	20	8260B
1,1-Dichloroethene	< 1	18 (92 %R)	19 (94 %R) (2 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
Methylene chloride	< 5	19 (93 %R)	19 (94 %R) (1 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
Carbon disulfide	< 5	18 (92 %R)	18 (92 %R) (0 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
Methyl-t-butyl ether(MTBE)	< 5	22 (108 %R)	21 (107 %R) (1 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
trans-1,2-Dichloroethene	< 2	20 (98 %R)	20 (100 %R) (2 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
1,1-Dichloroethane	< 2	20 (99 %R)	20 (99 %R) (0 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
2,2-Dichloropropane	< 2	22 (109 %R)	22 (108 %R) (1 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
cis-1,2-Dichloroethene	< 2	19 (96 %R)	19 (97 %R) (1 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
2-Butanone(MEK)	< 10	20 (97 %R)	20 (98 %R) (1 RPD)	2/24/2016	ug/l	40 - 160	20	8260B
Bromochloromethane	< 2	20 (100 %R)	20 (101 %R) (1 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
Tetrahydrofuran(THF)	< 10	20 (115 %R)	20 (118 %R) (3 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
Chloroform	< 2	20 (100 %R)	20 (99 %R) (1 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
1,1,1-Trichloroethane	< 2	21 (103 %R)	21 (103 %R) (0 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
Carbon tetrachloride	< 2	21 (104 %R)	21 (105 %R) (1 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
1,1-Dichloropropene	< 2	21 (104 %R)	21 (106 %R) (2 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
Benzene	< 1	20 (102 %R)	21 (103 %R) (1 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
1,2-Dichloroethane	< 2	20 (102 %R)	20 (101 %R) (1 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
Trichloroethene	< 2	20 (99 %R)	20 (100 %R) (1 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
1,2-Dichloropropane	< 2	20 (102 %R)	21 (104 %R) (2 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
Dibromomethane	< 2	20 (102 %R)	20 (102 %R) (0 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
Bromodichloromethane	< 1	23 (116 %R)	23 (117 %R) (1 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
4-Methyl-2-pentanone(MIBK)	< 10	20 (117 %R)	20 (115 %R) (2 RPD)	2/24/2016	ug/l	40 - 160	20	8260B
cis-1,3-Dichloropropene	< 1	24 (118 %R)	23 (117 %R) (1 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
Toluene	< 1	21 (105 %R)	21 (107 %R) (2 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
trans-1,3-Dichloropropene	< 1	22 (108 %R)	22 (109 %R) (1 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
1,1,2-Trichloroethane	< 2	21 (104 %R)	21 (105 %R) (1 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
2-Hexanone	< 10	20 (117 %R)	20 (118 %R) (1 RPD)	2/24/2016	ug/l	40 - 160	20	8260B
Tetrachloroethene	< 2	19 (97 %R)	19 (97 %R) (0 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
1,3-Dichloropropane	< 2	21 (107 %R)	21 (107 %R) (0 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
Dibromochloromethane	< 2	23 (114 %R)	23 (114 %R) (0 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
1,2-Dibromoethane(EDB)	< 1	21 (106 %R)	22 (109 %R) (3 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
Chlorobenzene	< 2	21 (104 %R)	21 (106 %R) (2 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
1,1,1,2-Tetrachloroethane	< 2	21 (106 %R)	22 (108 %R) (2 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
Ethylbenzene	< 1	22 (108 %R)	22 (110 %R) (2 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
mp-Xylene	< 1	40 (99 %R)	40 (101 %R) (2 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
o-Xylene	< 1	21 (107 %R)	22 (109 %R) (2 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
Styrene	< 1	22 (110 %R)	22 (112 %R) (2 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
Bromoform	< 2	21 (106 %R)	22 (108 %R) (2 RPD)	2/24/2016	ug/l	70 - 130	20	8260B



QC REPORT

EAI ID#: 153268

Client: KAS, Inc.

Client Designation: Burlington Waterfront | 512150387

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
IsoPropylbenzene	< 1	21 (106 %R)	21 (107 %R) (1 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
Bromobenzene	< 2	20 (101 %R)	20 (102 %R) (1 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
1,1,2,2-Tetrachloroethane	< 2	21 (103 %R)	21 (105 %R) (2 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
1,2,3-Trichloropropane	< 2	20 (100 %R)	20 (100 %R) (0 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
n-Propylbenzene	< 1	21 (103 %R)	21 (104 %R) (1 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
2-Chlorotoluene	< 2	20 (99 %R)	20 (101 %R) (2 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
4-Chlorotoluene	< 2	20 (102 %R)	20 (102 %R) (0 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
1,3,5-Trimethylbenzene	< 1	21 (106 %R)	21 (106 %R) (0 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
tert-Butylbenzene	< 1	22 (108 %R)	22 (111 %R) (3 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
1,2,4-Trimethylbenzene	< 1	21 (106 %R)	21 (107 %R) (1 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
sec-Butylbenzene	< 1	21 (107 %R)	22 (109 %R) (2 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
1,3-Dichlorobenzene	< 1	20 (101 %R)	20 (102 %R) (1 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
p-Isopropyltoluene	< 1	22 (108 %R)	22 (111 %R) (3 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
1,4-Dichlorobenzene	< 1	20 (99 %R)	20 (101 %R) (2 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
1,2-Dichlorobenzene	< 1	20 (101 %R)	20 (102 %R) (1 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
n-Butylbenzene	< 1	22 (111 %R)	22 (111 %R) (0 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
1,2-Dibromo-3-chloropropane	< 1	22 (108 %R)	22 (109 %R) (1 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
1,2,4-Trichlorobenzene	< 1	21 (107 %R)	22 (110 %R) (3 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
Hexachlorobutadiene	< 1	20 (100 %R)	20 (100 %R) (0 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
Naphthalene	< 5	23 (117 %R)	25 (123 %R) (5 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
1,2,3-Trichlorobenzene	< 1	21 (104 %R)	22 (109 %R) (5 RPD)	2/24/2016	ug/l	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	99 %R	102 %R	105 %R	2/24/2016	% Rec	70 - 130	50	8260B
1,2-Dichlorobenzene-d4 (surr)	101 %R	99 %R	101 %R	2/24/2016	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	101 %R	99 %R	99 %R	2/24/2016	% Rec	70 - 130	50	8260B

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.

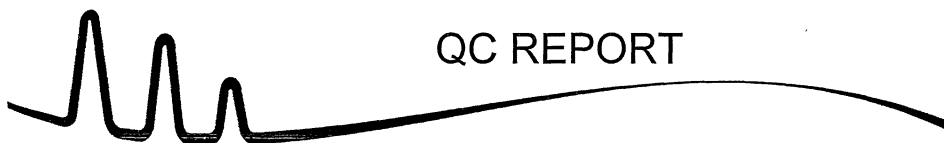
Sample surrogate recoveries met the above stated criteria.

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.



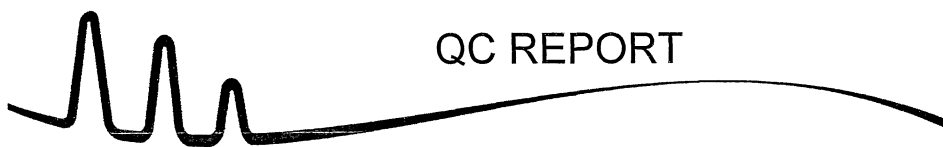
QC REPORT

EAI ID#: 153268

Client: KAS, Inc.

Client Designation: Burlington Waterfront | 512150387

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 0.1			2/25/2016	mg/kg			8260B
Chloromethane	< 0.1			2/25/2016	mg/kg			8260B
Vinyl chloride	< 0.1			2/25/2016	mg/kg			8260B
Bromomethane	< 0.1			2/25/2016	mg/kg			8260B
Chloroethane	< 0.1			2/25/2016	mg/kg			8260B
Trichlorofluoromethane	< 0.1			2/25/2016	mg/kg			8260B
Diethyl Ether	< 0.05			2/25/2016	mg/kg			8260B
Acetone	< 2			2/25/2016	mg/kg			8260B
1,1-Dichloroethene	< 0.05	0.89 (89 %R)	0.89 (89 %R) (0 RPD)	2/25/2016	mg/kg	59 - 172	20	8260B
Methylene chloride	< 0.1			2/25/2016	mg/kg			8260B
Carbon disulfide	< 0.1			2/25/2016	mg/kg			8260B
Methyl-t-butyl ether(MTBE)	< 0.1			2/25/2016	mg/kg			8260B
trans-1,2-Dichloroethene	< 0.05			2/25/2016	mg/kg			8260B
1,1-Dichloroethane	< 0.05			2/25/2016	mg/kg			8260B
2,2-Dichloropropane	< 0.05			2/25/2016	mg/kg			8260B
cis-1,2-Dichloroethene	< 0.05			2/25/2016	mg/kg			8260B
2-Butanone(MEK)	< 0.5			2/25/2016	mg/kg			8260B
Bromochloromethane	< 0.05			2/25/2016	mg/kg			8260B
Tetrahydrofuran(THF)	< 0.5			2/25/2016	mg/kg			8260B
Chloroform	< 0.05			2/25/2016	mg/kg			8260B
1,1,1-Trichloroethane	< 0.05			2/25/2016	mg/kg			8260B
Carbon tetrachloride	< 0.05			2/25/2016	mg/kg			8260B
1,1-Dichloropropene	< 0.05			2/25/2016	mg/kg			8260B
Benzene	< 0.05	1.1 (107 %R)	1.1 (107 %R) (0 RPD)	2/25/2016	mg/kg	66 - 142	20	8260B
1,2-Dichloroethane	< 0.05			2/25/2016	mg/kg			8260B
Trichloroethene	< 0.05	1.1 (107 %R)	1.1 (108 %R) (1 RPD)	2/25/2016	mg/kg	62 - 137	20	8260B
1,2-Dichloropropane	< 0.05			2/25/2016	mg/kg			8260B
Dibromomethane	< 0.05			2/25/2016	mg/kg			8260B
Bromodichloromethane	< 0.05			2/25/2016	mg/kg			8260B
4-Methyl-2-pentanone(MIBK)	< 0.5			2/25/2016	mg/kg			8260B
cis-1,3-Dichloropropene	< 0.05			2/25/2016	mg/kg			8260B
Toluene	< 0.05	1.1 (108 %R)	1.1 (108 %R) (0 RPD)	2/25/2016	mg/kg	59 - 139	20	8260B
trans-1,3-Dichloropropene	< 0.05			2/25/2016	mg/kg			8260B
1,1,2-Trichloroethane	< 0.05			2/25/2016	mg/kg			8260B
2-Hexanone	< 0.1			2/25/2016	mg/kg			8260B
Tetrachloroethene	< 0.05			2/25/2016	mg/kg			8260B
1,3-Dichloropropane	< 0.05			2/25/2016	mg/kg			8260B
Dibromochloromethane	< 0.05			2/25/2016	mg/kg			8260B
1,2-Dibromoethane(EDB)	< 0.05			2/25/2016	mg/kg			8260B
Chlorobenzene	< 0.05	1.1 (108 %R)	1.1 (109 %R) (1 RPD)	2/25/2016	mg/kg	60 - 133	20	8260B
1,1,1,2-Tetrachloroethane	< 0.05			2/25/2016	mg/kg			8260B
Ethylbenzene	< 0.05			2/25/2016	mg/kg			8260B
mp-Xylene	< 0.05			2/25/2016	mg/kg			8260B
o-Xylene	< 0.05			2/25/2016	mg/kg			8260B
Styrene	< 0.05			2/25/2016	mg/kg			8260B
Bromoform	< 0.05			2/25/2016	mg/kg			8260B



QC REPORT

EAI ID#: 153268

Client: KAS, Inc.

Client Designation: Burlington Waterfront | 512150387

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
IsoPropylbenzene	< 0.05			2/25/2016	mg/kg			8260B
Bromobenzene	< 0.05			2/25/2016	mg/kg			8260B
1,1,2,2-Tetrachloroethane	< 0.05			2/25/2016	mg/kg			8260B
1,2,3-Trichloropropane	< 0.05			2/25/2016	mg/kg			8260B
n-Propylbenzene	< 0.05			2/25/2016	mg/kg			8260B
2-Chlorotoluene	< 0.05			2/25/2016	mg/kg			8260B
4-Chlorotoluene	< 0.05			2/25/2016	mg/kg			8260B
1,3,5-Trimethylbenzene	< 0.05			2/25/2016	mg/kg			8260B
tert-Butylbenzene	< 0.05			2/25/2016	mg/kg			8260B
1,2,4-Trimethylbenzene	< 0.05			2/25/2016	mg/kg			8260B
sec-Butylbenzene	< 0.05			2/25/2016	mg/kg			8260B
1,3-Dichlorobenzene	< 0.05			2/25/2016	mg/kg			8260B
p-Isopropyltoluene	< 0.05			2/25/2016	mg/kg			8260B
1,4-Dichlorobenzene	< 0.05			2/25/2016	mg/kg			8260B
1,2-Dichlorobenzene	< 0.05			2/25/2016	mg/kg			8260B
n-Butylbenzene	< 0.05			2/25/2016	mg/kg			8260B
1,2-Dibromo-3-chloropropane	< 0.05			2/25/2016	mg/kg			8260B
1,2,4-Trichlorobenzene	< 0.05			2/25/2016	mg/kg			8260B
Hexachlorobutadiene	< 0.05			2/25/2016	mg/kg			8260B
Naphthalene	< 0.1			2/25/2016	mg/kg			8260B
1,2,3-Trichlorobenzene	< 0.05			2/25/2016	mg/kg			8260B
4-Bromofluorobenzene (surr)	97 %R	99 %R	96 %R	2/25/2016	% Rec	70 - 130	20	8260B
1,2-Dichlorobenzene-d4 (surr)	102 %R	100 %R	101 %R	2/25/2016	% Rec	70 - 130	20	8260B
Toluene-d8 (surr)	98 %R	99 %R	99 %R	2/25/2016	% Rec	70 - 130	20	8260B

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#: 153268

Client: KAS, Inc.

Client Designation: Burlington Waterfront | 512150387

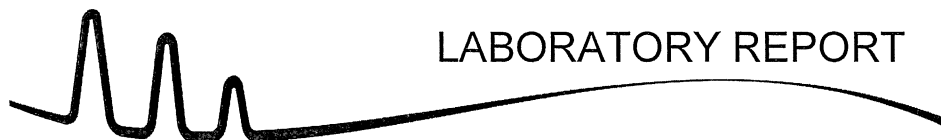
Client Sample ID: SB-1 (0-2)
Lab Sample ID: 153268.02
Matrix: soil
Date Sampled: 2/22/16
Date Received: 2/23/16
Date Prepared: 2/24/16
Units: mg/kg
Method: 8270D
Analyst: JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	0.030	1	2/24/16		
2-Methylnaphthalene	0.033	1	2/24/16		
Acenaphthylene	0.0096	1	2/24/16		
Acenaphthene	< 0.008	1	2/24/16		
Fluorene	< 0.008	1	2/24/16		
Phenanthrene	0.085	1	2/24/16		
Anthracene	0.020	1	2/24/16		
Fluoranthene	0.13	1	2/24/16		
Pyrene	0.10	1	2/24/16		
Benzo[a]anthracene	0.058	1	2/24/16	0.1	.0058
Chrysene	0.064	1	2/24/16	0.001	.000064
Benzo[b]fluoranthene	0.083	1	2/24/16	0.1	.0083
Benzo[k]fluoranthene	0.032	1	2/24/16	0.01	.00032
Benzo[a]pyrene	0.063	1	2/24/16	1	.063
Indeno[1,2,3-cd]pyrene	0.057	1	2/24/16	0.1	.0057
Dibenz[a,h]anthracene	0.014	1	2/24/16	1	.014
Benzo[g,h,i]perylene	0.056	1	2/24/16		
p-Terphenyl-D14 (surr)	58 %R		2/24/16		

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#: 153268

Client: KAS, Inc.

Client Designation: Burlington Waterfront | 512150387

Client Sample ID: SB-2 (6-8)
Lab Sample ID: 153268.04
Matrix: soil
Date Sampled: 2/22/16
Date Received: 2/23/16
Date Prepared: 2/24/16
Units: mg/kg
Method: 8270D
Analyst: JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	< 0.008	1	2/24/16		
2-Methylnaphthalene	< 0.008	1	2/24/16		
Acenaphthylene	< 0.008	1	2/24/16		
Acenaphthene	< 0.008	1	2/24/16		
Fluorene	< 0.008	1	2/24/16		
Phenanthrene	< 0.008	1	2/24/16		
Anthracene	< 0.008	1	2/24/16		
Fluoranthene	< 0.008	1	2/24/16		
Pyrene	< 0.008	1	2/24/16		
Benzo[a]anthracene	< 0.008	1	2/24/16	0.1	< .0008
Chrysene	< 0.008	1	2/24/16	0.001	< .00000
Benzo[b]fluoranthene	< 0.008	1	2/24/16	0.1	< .0008
Benzo[k]fluoranthene	< 0.008	1	2/24/16	0.01	< .00008
Benzo[a]pyrene	< 0.008	1	2/24/16	1	< .008
Indeno[1,2,3-cd]pyrene	< 0.008	1	2/24/16	0.1	< .0008
Dibenz[a,h]anthracene	< 0.008	1	2/24/16	1	< .008
Benzo[g,h,i]perylene	< 0.008	1	2/24/16		
p-Terphenyl-D14 (surr)	49 %R		2/24/16		

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#: 153268

Client: **KAS, Inc.**

Client Designation: **Burlington Waterfront | 512150387**

Client Sample ID: SB-3 (0-2)
Lab Sample ID: 153268.05
Matrix: soil
Date Sampled: 2/22/16
Date Received: 2/23/16
Date Prepared: 2/24/16
Units: mg/kg
Method: 8270D
Analyst: JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	0.038	1	2/24/16		
2-Methylnaphthalene	0.048	1	2/24/16		
Acenaphthylene	0.024	1	2/24/16		
Acenaphthene	0.022	1	2/24/16		
Fluorene	0.023	1	2/24/16		
Phenanthrene	0.28	1	2/24/16		
Anthracene	0.086	1	2/24/16		
Fluoranthene	0.46	1	2/24/16		
Pyrene	0.32	1	2/24/16		
Benzo[a]anthracene	0.20	1	2/24/16	0.1	.02
Chrysene	0.22	1	2/24/16	0.001	.00022
Benzo[b]fluoranthene	0.28	1	2/24/16	0.1	.028
Benzo[k]fluoranthene	0.10	1	2/24/16	0.01	.001
Benzo[a]pyrene	0.21	1	2/24/16	1	.21
Indeno[1,2,3-cd]pyrene	0.10	1	2/24/16	0.1	.01
Dibenz[a,h]anthracene	0.030	1	2/24/16	1	.03
Benzo[g,h,i]perylene	0.087	1	2/24/16		
p-Terphenyl-D14 (surr)	37 %R		2/24/16		

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#: 153268

Client: KAS, Inc.

Client Designation: Burlington Waterfront | 512150387

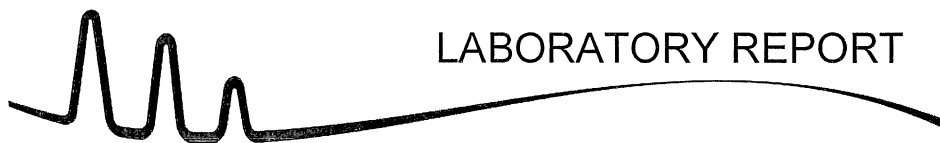
Client Sample ID: SB-4 (0-2)
Lab Sample ID: 153268.06
Matrix: soil
Date Sampled: 2/22/16
Date Received: 2/23/16
Date Prepared: 2/24/16
Units: mg/kg
Method: 8270D
Analyst: JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	< 0.008	1	2/24/16		
2-Methylnaphthalene	< 0.008	1	2/24/16		
Acenaphthylene	0.014	1	2/24/16		
Acenaphthene	< 0.008	1	2/24/16		
Fluorene	< 0.008	1	2/24/16		
Phenanthrene	0.013	1	2/24/16		
Anthracene	0.0083	1	2/24/16		
Fluoranthene	0.025	1	2/24/16		
Pyrene	0.022	1	2/24/16		
Benzo[a]anthracene	0.020	1	2/24/16	0.1	.002
Chrysene	0.017	1	2/24/16	0.001	.000017
Benzo[b]fluoranthene	0.030	1	2/24/16	0.1	.003
Benzo[k]fluoranthene	0.011	1	2/24/16	0.01	.00011
Benzo[a]pyrene	0.026	1	2/24/16	1	.026
Indeno[1,2,3-cd]pyrene	0.019	1	2/24/16	0.1	.0019
Dibenz[a,h]anthracene	< 0.008	1	2/24/16	1	< .008
Benzo[g,h,i]perylene	0.016	1	2/24/16		
p-Terphenyl-D14 (surr)	51 %R		2/24/16		

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#: 153268

Client: KAS, Inc.

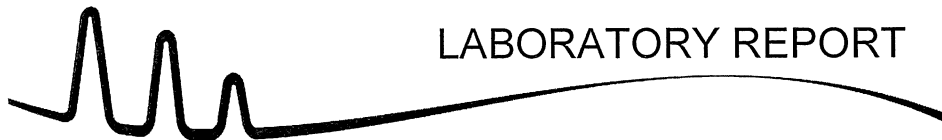
Client Designation: Burlington Waterfront | 512150387

Client Sample ID:	SB-5 (0-2)				
Lab Sample ID:	153268.07				
Matrix:	soil				
Date Sampled:	2/22/16				
Date Received:	2/23/16				
Date Prepared:	2/24/16				
Units	mg/kg				
Method	8270D				
Analyst	JMR				
	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	< 0.008	1	2/24/16		
2-Methylnaphthalene	< 0.008	1	2/24/16		
Acenaphthylene	0.010	1	2/24/16		
Acenaphthene	0.0085	1	2/24/16		
Fluorene	0.011	1	2/24/16		
Phenanthrene	0.13	1	2/24/16		
Anthracene	0.040	1	2/24/16		
Fluoranthene	0.18	1	2/24/16		
Pyrene	0.13	1	2/24/16		
Benzo[a]anthracene	0.081	1	2/24/16	0.1	.0081
Chrysene	0.078	1	2/24/16	0.001	.000078
Benzo[b]fluoranthene	0.096	1	2/24/16	0.1	.0096
Benzo[k]fluoranthene	0.036	1	2/24/16	0.01	.00036
Benzo[a]pyrene	0.081	1	2/24/16	1	.081
Indeno[1,2,3-cd]pyrene	0.045	1	2/24/16	0.1	.0045
Dibenz[a,h]anthracene	0.013	1	2/24/16	1	.013
Benzo[g,h,i]perylene	0.038	1	2/24/16		
p-Terphenyl-D14 (surr)	43 %R		2/24/16		

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#: 153268

Client: KAS, Inc.

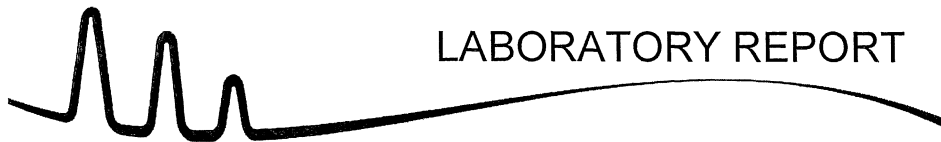
Client Designation: Burlington Waterfront | 512150387

Client Sample ID:	SB-6 (4-6)				
Lab Sample ID:	153268.08				
Matrix:	soil				
Date Sampled:	2/22/16				
Date Received:	2/23/16				
Date Prepared:	2/24/16				
Units	mg/kg				
Method	8270D				
Analyst	JMR				
	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	0.0098	1	2/24/16		
2-Methylnaphthalene	< 0.008	1	2/24/16		
Acenaphthylene	0.087	1	2/24/16		
Acenaphthene	< 0.008	1	2/24/16		
Fluorene	0.0083	1	2/24/16		
Phenanthrene	0.056	1	2/24/16		
Anthracene	0.054	1	2/24/16		
Fluoranthene	0.31	1	2/24/16		
Pyrene	0.26	1	2/24/16		
Benzo[a]anthracene	0.20	1	2/24/16	0.1	.02
Chrysene	0.21	1	2/24/16	0.001	.00021
Benzo[b]fluoranthene	0.35	1	2/24/16	0.1	.035
Benzo[k]fluoranthene	0.14	1	2/24/16	0.01	.0014
Benzo[a]pyrene	0.27	1	2/24/16	1	.27
Indeno[1,2,3-cd]pyrene	0.11	1	2/24/16	0.1	.011
Dibenz[a,h]anthracene	0.038	1	2/24/16	1	.038
Benzo[g,h,i]perylene	0.11	1	2/24/16		
p-Terphenyl-D14 (surr)	38 %R		2/24/16		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: 153268

Client: KAS, Inc.

Client Designation: Burlington Waterfront | 512150387

Client Sample ID: SB-7 (1-4)
Lab Sample ID: 153268.09
Matrix: soil
Date Sampled: 2/22/16
Date Received: 2/23/16
Date Prepared: 2/24/16
Units: mg/kg
Method: 8270D
Analyst: JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	< 0.008	1	2/24/16		
2-Methylnaphthalene	< 0.008	1	2/24/16		
Acenaphthylene	< 0.008	1	2/24/16		
Acenaphthene	< 0.008	1	2/24/16		
Fluorene	< 0.008	1	2/24/16		
Phenanthrene	< 0.008	1	2/24/16		
Anthracene	< 0.008	1	2/24/16		
Fluoranthene	< 0.008	1	2/24/16		
Pyrene	< 0.008	1	2/24/16		
Benzo[a]anthracene	< 0.008	1	2/24/16	0.1	< .0008
Chrysene	< 0.008	1	2/24/16	0.001	< .00000
Benzo[b]fluoranthene	< 0.008	1	2/24/16	0.1	< .0008
Benzo[k]fluoranthene	< 0.008	1	2/24/16	0.01	< .00008
Benzo[a]pyrene	< 0.008	1	2/24/16	1	< .008
Indeno[1,2,3-cd]pyrene	< 0.008	1	2/24/16	0.1	< .0008
Dibenz[a,h]anthracene	< 0.008	1	2/24/16	1	< .008
Benzo[g,h,i]perylene	< 0.008	1	2/24/16		
p-Terphenyl-D14 (surr)	43 %R		2/24/16		

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#: 153268

Client: KAS, Inc.

Client Designation: Burlington Waterfront | 512150387

Client Sample ID: SB-8 (1-4)
Lab Sample ID: 153268.1
Matrix: soil
Date Sampled: 2/22/16
Date Received: 2/23/16
Date Prepared: 2/24/16
Units: mg/kg
Method: 8270D
Analyst: JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	0.022	1	2/24/16		
2-Methylnaphthalene	0.028	1	2/24/16		
Acenaphthylene	0.038	1	2/24/16		
Acenaphthene	0.0082	1	2/24/16		
Fluorene	0.012	1	2/24/16		
Phenanthrene	0.079	1	2/24/16		
Anthracene	0.051	1	2/24/16		
Fluoranthene	0.31	1	2/24/16		
Pyrene	0.28	1	2/24/16		
Benzo[a]anthracene	0.18	1	2/24/16	0.1	.018
Chrysene	0.20	1	2/24/16	0.001	.0002
Benzo[b]fluoranthene	0.36	1	2/24/16	0.1	.036
Benzo[k]fluoranthene	0.12	1	2/24/16	0.01	.0012
Benzo[a]pyrene	0.26	1	2/24/16	1	.26
Indeno[1,2,3-cd]pyrene	0.17	1	2/24/16	0.1	.017
Dibenz[a,h]anthracene	0.041	1	2/24/16	1	.041
Benzo[g,h,i]perylene	0.14	1	2/24/16		
p-Terphenyl-D14 (surr)	48 %R		2/24/16		

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#: 153268

Client: KAS, Inc.

Batch ID: 635919-22149/S022416PAH1

Client Designation: Burlington Waterfront | 512150387

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Naphthalene	< 0.007	1.1 (68 %R)	1.0 (61 %R) (11 RPD)	2/24/2016	mg/kg	40 - 140	30	8270D
2-Methylnaphthalene	< 0.007	1.2 (75 %R)	1.1 (67 %R) (11 RPD)	2/24/2016	mg/kg	40 - 140	30	8270D
Acenaphthylene	< 0.007	1.1 (68 %R)	1.0 (62 %R) (9 RPD)	2/24/2016	mg/kg	40 - 140	30	8270D
Acenaphthene	< 0.007	1.0 (62 %R)	0.94 (56 %R) (10 RPD)	2/24/2016	mg/kg	40 - 140	30	8270D
Fluorene	< 0.007	1.2 (74 %R)	1.1 (68 %R) (8 RPD)	2/24/2016	mg/kg	40 - 140	30	8270D
Phenanthrene	< 0.007	1.3 (76 %R)	1.2 (70 %R) (8 RPD)	2/24/2016	mg/kg	40 - 140	30	8270D
Anthracene	< 0.007	1.3 (78 %R)	1.2 (73 %R) (7 RPD)	2/24/2016	mg/kg	40 - 140	30	8270D
Fluoranthene	< 0.007	1.5 (91 %R)	1.4 (86 %R) (6 RPD)	2/24/2016	mg/kg	40 - 140	30	8270D
Pyrene	< 0.007	1.5 (89 %R)	1.4 (85 %R) (5 RPD)	2/24/2016	mg/kg	40 - 140	30	8270D
Benzo[a]anthracene	< 0.007	1.5 (90 %R)	1.5 (88 %R) (2 RPD)	2/24/2016	mg/kg	40 - 140	30	8270D
Chrysene	< 0.007	1.4 (87 %R)	1.4 (84 %R) (4 RPD)	2/24/2016	mg/kg	40 - 140	30	8270D
Benzo[b]fluoranthene	< 0.007	1.6 (96 %R)	1.5 (92 %R) (4 RPD)	2/24/2016	mg/kg	40 - 140	30	8270D
Benzo[k]fluoranthene	< 0.007	1.5 (91 %R)	1.5 (88 %R) (3 RPD)	2/24/2016	mg/kg	40 - 140	30	8270D
Benzo[a]pyrene	< 0.007	1.6 (95 %R)	1.5 (91 %R) (4 RPD)	2/24/2016	mg/kg	40 - 140	30	8270D
Indeno[1,2,3-cd]pyrene	< 0.007	1.6 (96 %R)	1.5 (92 %R) (4 RPD)	2/24/2016	mg/kg	40 - 140	30	8270D
Dibenz[a,h]anthracene	< 0.007	1.6 (93 %R)	1.5 (90 %R) (3 RPD)	2/24/2016	mg/kg	40 - 140	30	8270D
Benzo[g,h,i]perylene	< 0.007	1.5 (89 %R)	1.4 (86 %R) (3 RPD)	2/24/2016	mg/kg	40 - 140	30	8270D
p-Terphenyl-D14 (surr)	68 %R	72 %R	69 %R	2/24/2016	mg/kg	30 - 130		8270D

Samples were extracted and analyzed within holding time limits.

Instrumentation was calibrated in accordance with the method requirements.

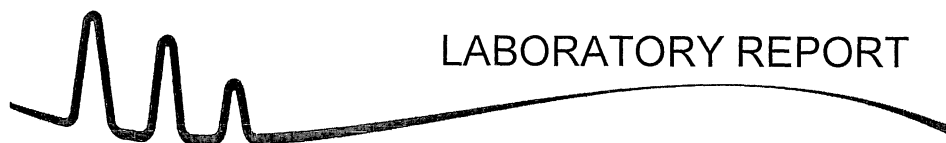
The method blanks were free of contamination at the reporting limits.

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#: **153268**

Client: **KAS, Inc.**

Client Designation: **Burlington Waterfront | 512150387**

Sample ID:	SB-1 (0-2)	SB-2 (6-8)	SB-3 (0-2)	SB-4 (0-2)	SB-5 (0-2)	SB-6 (4-6)	SB-7 (1-4)
Lab Sample ID:	153268.02	153268.04	153268.05	153268.06	153268.07	153268.08	153268.09
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	2/22/16	2/22/16	2/22/16	2/22/16	2/22/16	2/22/16	2/22/16
Date Received:	2/23/16	2/23/16	2/23/16	2/23/16	2/23/16	2/23/16	2/23/16
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	2/24/16	2/24/16	2/24/16	2/24/16	2/24/16	2/24/16	2/24/16
Date of Analysis:	2/24/16	2/24/16	2/24/16	2/24/16	2/25/16	2/24/16	2/24/16
Analyst:	SS	SS	SS	SS	SS	SS	SS
Method:	8100mod	8100mod	8100mod	8100mod	8100mod	8100mod	8100mod
Dilution Factor:	1	1	1	1	1	1	1
TPH (C9-C40)	31	< 20	150	< 20	30	250	< 20
p-Terphenyl-D14 (surr)	62 %R	49 %R	61 %R	56 %R	51 %R	63 %R	49 %R



LABORATORY REPORT

EAI ID#: 153268

Client: **KAS, Inc.**

Client Designation: **Burlington Waterfront | 512150387**

Sample ID: SB-8 (1-4)

Lab Sample ID: 153268.1

Matrix: soil

Date Sampled: 2/22/16

Date Received: 2/23/16

Units: mg/kg

Date of Extraction/Prep: 2/24/16

Date of Analysis: 2/24/16

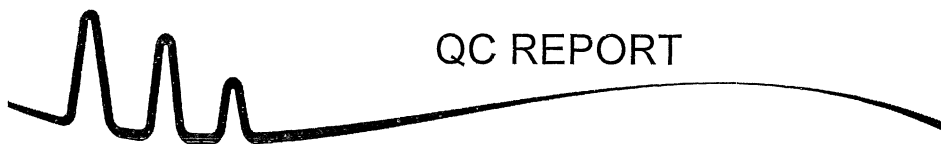
Analyst: SS

Method: 8100mod

Dilution Factor: 1

TPH (C9-C40) 48

p-Terphenyl-D14 (surr) 50 %R



QC REPORT

EAI ID#: **153268**

Client: **KAS, Inc.**

Batch ID: 635919-07316/S022416TPHL11

Client Designation: **Burlington Waterfront | 512150387**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
TPH (C9-C40)	< 20	54 (67 %R)	50 (63 %R) (6 RPD)	2/24/2016	mg/kg	30 - 160	30	8100mod
p-Terphenyl-D14 (surr)	78 %R	82 %R	80 %R	2/24/2016	% Rec	30 - 130		8100mod

Samples were extracted and analyzed within holding time limits.

Instrumentation was calibrated in accordance with the method requirements.

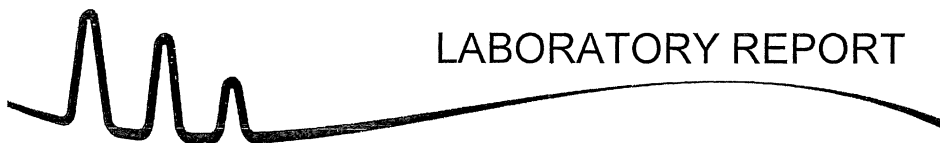
The method blanks were free of contamination at the reporting limits.

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

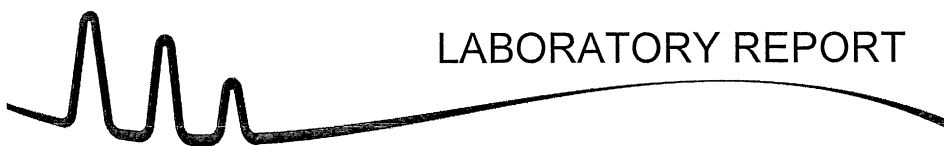
EAI ID#: 153268

Client: KAS, Inc.

Client Designation: Burlington Waterfront | 512150387

Sample ID:	SB-1 (0-2)	SB-2 (0-2)	SB-3 (0-2)	SB-4 (0-2)	SB-5 (0-2)	SB-6 (4-6)	SB-7 (1-4)
Lab Sample ID:	153268.02	153268.03	153268.05	153268.06	153268.07	153268.08	153268.09
Matrix:	soil	soil	soil	soil	soil	soil	soil
Date Sampled:	2/22/16	2/22/16	2/22/16	2/22/16	2/22/16	2/22/16	2/22/16
Date Received:	2/23/16	2/23/16	2/23/16	2/23/16	2/23/16	2/23/16	2/23/16
% Solid:	85.3	88.9	89.2	90	87.6	90.7	85.8
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	2/29/16	2/29/16	2/29/16	2/29/16	2/29/16	2/29/16	2/29/16
Date of Analysis:	3/2/16	3/2/16	3/2/16	3/2/16	3/2/16	3/2/16	3/2/16
Analyst:	SS	SS	SS	SS	SS	SS	SS
Extraction Method:	3540C	3540C	3540C	3540C	3540C	3540C	3540C
Analysis Method:	8082	8082	8082	8082	8082	8082	8082
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	0.10	< 0.02	< 0.02	< 0.02
PCB-1260	< 0.02	< 0.02	< 0.02	0.026	< 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)	90 %R	76 %R	73 %R	92 %R	92 %R	87 %R	90 %R
DCB (surr)	86 %R	68 %R	49 %R	55 %R	70 %R	42 %R	52 %R

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



LABORATORY REPORT

EAI ID#: **153268**

Client: **KAS, Inc.**

Client Designation: **Burlington Waterfront | 512150387**

Sample ID: SB-8 (1-4)

Lab Sample ID: 153268.1

Matrix: soil

Date Sampled: 2/22/16

Date Received: 2/23/16

% Solid: 88.9

Units: mg/kg

Date of Extraction/Prep: 2/29/16

Date of Analysis: 3/2/16

Analyst: SS

Extraction Method: 3540C

Analysis Method: 8082

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

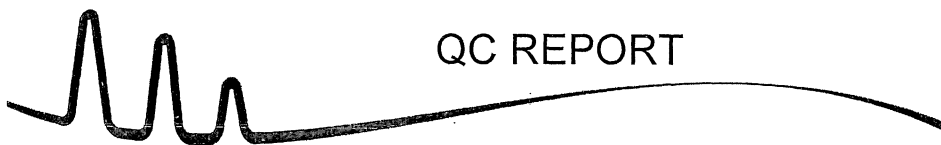
PCB-1262 < 0.02

PCB-1268 < 0.02

TMX (surr) 71 %R

DCB (surr) 53 %R

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



QC REPORT

EAI ID#: **153268**

Client: **KAS, Inc.**

Batch ID: 635923-56413/S022916PCB1

Client Designation: **Burlington Waterfront | 512150387**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
PCB-1016	< 0.02	0.14 (103 %R)	0.13 (99 %R) (4 RPD)	3/1/2016	mg/kg	40 - 140	30	8082
PCB-1221	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD)	3/1/2016	mg/kg			8082
PCB-1232	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD)	3/1/2016	mg/kg			8082
PCB-1242	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD)	3/1/2016	mg/kg			8082
PCB-1248	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD)	3/1/2016	mg/kg			8082
PCB-1254	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD)	3/1/2016	mg/kg			8082
PCB-1260	< 0.02	0.11 (85 %R)	0.11 (80 %R) (6 RPD)	3/1/2016	mg/kg	40 - 140	30	8082
PCB-1262	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD)	3/1/2016	mg/kg			8082
PCB-1268	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD)	3/1/2016	mg/kg			8082
TMX (surr)	91 %R	96 %R	93 %R	3/1/2016	% Rec	30 - 150	30	8082
DCB (surr)	95 %R	102 %R	95 %R	3/1/2016	% Rec	30 - 150	30	8082

Samples were extracted and analyzed within holding time limits.

Instrumentation was calibrated in accordance with the method requirements.

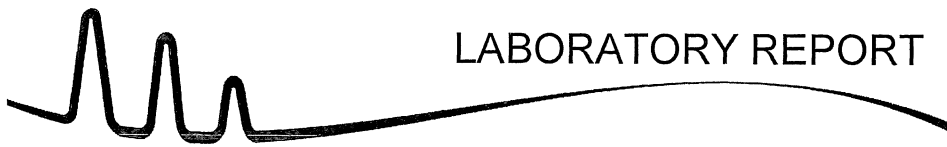
The method blanks were free of contamination at the reporting limits.

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

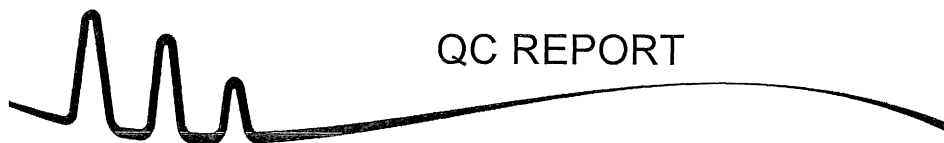
EAI ID#: 153268

Client: KAS, Inc.

Client Designation: Burlington Waterfront | 512150387

Sample ID:	SB-1 (0-2)	SB-2 (6-8)	SB-3 (0-2)	SB-4 (0-2)					
Lab Sample ID:	153268.02	153268.04	153268.05	153268.06					
Matrix:	soil	soil	soil	soil					
Date Sampled:	2/22/16	2/22/16	2/22/16	2/22/16	Analytical Matrix	Units	Date of Analysis	Method	Analyst
Date Received:	2/23/16	2/23/16	2/23/16	2/23/16					
Arsenic	5.3	3.1	5.3	4.6	SolTotDry	mg/kg	2/25/16	6020	DS
Barium	39	20	43	41	SolTotDry	mg/kg	2/25/16	6020	DS
Cadmium	< 0.5	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	2/25/16	6020	DS
Chromium	17	13	14	16	SolTotDry	mg/kg	2/25/16	6020	DS
Lead	28	3.8	26	11	SolTotDry	mg/kg	2/25/16	6020	DS
Mercury	< 0.1	< 0.1	< 0.1	< 0.1	SolTotDry	mg/kg	2/25/16	6020	DS
Selenium	< 0.5	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	2/25/16	6020	DS
Silver	< 0.5	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	2/25/16	6020	DS

Sample ID:	SB-5 (0-2)	SB-6 (4-6)	SB-7 (1-4)	SB-8 (1-4)					
Lab Sample ID:	153268.07	153268.08	153268.09	153268.1					
Matrix:	soil	soil	soil	soil					
Date Sampled:	2/22/16	2/22/16	2/22/16	2/22/16	Analytical Matrix	Units	Date of Analysis	Method	Analyst
Date Received:	2/23/16	2/23/16	2/23/16	2/23/16					
Arsenic	5.1	4.9	4.1	3.8	SolTotDry	mg/kg	2/25/16	6020	DS
Barium	41	45	25	33	SolTotDry	mg/kg	2/25/16	6020	DS
Cadmium	< 0.5	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	2/25/16	6020	DS
Chromium	16	16	14	15	SolTotDry	mg/kg	2/25/16	6020	DS
Lead	14	32	7.5	16	SolTotDry	mg/kg	2/25/16	6020	DS
Mercury	< 0.1	< 0.1	< 0.1	< 0.1	SolTotDry	mg/kg	2/25/16	6020	DS
Selenium	< 0.5	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	2/25/16	6020	DS
Silver	< 0.5	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	2/25/16	6020	DS



QC REPORT

EAI ID#: 153268

Client: KAS, Inc.

Client Designation: Burlington Waterfront | 512150387

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Arsenic	< 0.5	39 (97 %R)		mg/kg	2/25/16	80 - 120	20	6020
Barium	< 0.5	39 (98 %R)		mg/kg	2/25/16	80 - 120	20	6020
Cadmium	< 0.5	38 (95 %R)		mg/kg	2/25/16	80 - 120	20	6020
Chromium	< 0.5	39 (98 %R)		mg/kg	2/25/16	80 - 120	20	6020
Lead	< 0.5	39 (97 %R)		mg/kg	2/25/16	80 - 120	20	6020
Mercury	< 0.1	0.4 (95 %R)		mg/kg	2/25/16	80 - 120	20	6020
Selenium	< 0.5	38 (94 %R)		mg/kg	2/25/16	80 - 120	20	6020
Silver	< 0.5	40 (99 %R)		mg/kg	2/25/16	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.

(WHITE: ORIGINAL GREEN: PROJECT MANAGER)