Construction Completion Report

Metal-Impacted Hotspots Business Park Sub-parcels II-2, II-3, II-5 & II-11 Lackawanna, New York BCP Sites C915198B, C915198C, C915198E & C915198K

January 2014

0071-013-325

Prepared For:

Tecumseh Redevelopment Inc. Richfield, Ohio

Prepared By:





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CONSTRUCTION COMPLETION REPORT FOR METAL-IMPACTED HOTSPOTS

BUSINESS PARK SUBPARCELS II-2, II-3, II-5 and II-11

BCP Site Nos. C915198B, C915198C, C915198E and C915198K

TECUMSEH REDEVELOPMENT INC. LACKAWANNA, NEW YORK

January 2014

0071-013-325

Prepared for:

TECUMSEH REDEVELOPMENT INC.





In association with:



CERTIFICATION

I, <u>Thomas H. Forbes, P.E.</u>, certify that I am currently a NYS registered professional engineer and that this Construction Completion Report (CCR) was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

-24-14

Thomas H. Forbes, P.E.

Date

License No.: 070950-1

Registration State: New York



CONSTRUCTION COMPLETION REPORT FOR METAL-IMPACTED HOTSPOTS SUB-PARCELS II-2, II-3, II-5, AND II-11 BCP SITE NOS. C915198B, C915498C, C915198E, AND C915198K LACKAWANNA, NEW YORK

Table of Contents

1.0 INTRODUCTION	1
1.1 Background	1
1.1.1 Remedial Investigation	1
1.1.2 Sub-Parcel Approach	2
1.1.3 IRM Work Plan	2
1.2 Purpose and Scope	3
2.0 DESCRIPTION OF IRM ACTIVITIES PERFORMED	5
2.1 Remedial Objectives	5
2.2 Governing Documents	5
2.3 General Site and Nuisance Controls	5
2.4 Community Air Monitoring Results	5
2.5 Excavation and Re-grading of Hotspot Areas	6
2.5.1 Waste Characterization	6
2.5.2 Arsenic-Impacted Hotspot Excavations	6
2.5.3 Lead-Impacted Hotspot Excavation and Disposal	7
2.5.4 Hotspot Disposal	8
2.5.5 Backfill and/or Re-grading of Excavations	8
2.5.6 Soil Cover System	8
2.6 Documentation Sampling	9
2.7 Issues Encountered and Corrective Actions	9
2.6 Documentation Sampling2.7 Issues Encountered and Corrective Actions	9 9



CONSTRUCTION COMPLETION REPORT FOR METAL-IMPACTED HOTSPOTS SUB-PARCELS II-2, II-3, II-5, AND II-11 BCP SITE NOS. C915198B, C915498C, C915198E, AND C915198K LACKAWANNA, NEW YORK

LIST OF TABLES

Table 1Hotspot Soil Analytical Summary

LIST OF FIGURES

Figure 1 Site Location and Vicinity Map

Figure 2 Site Plan

Figure 3 Hotspot Excavation Limits and Sample Locations

APPENDICES

Appendix A Project Field Notes

- Appendix B CAMP Field Data Sheets & Air Monitoring Data
- Appendix C Disposal Facility Approval
- Appendix D Waste Manifests
- Appendix E Scale Receipts
- Appendix F Analytical Data
- Appendix G Digital Copy of CCR



1.0 INTRODUCTION

This document presents work completed under an Interim Remedial Measure (IRM) within sub-parcels II-2, II-3, II-5, and II-11 (Site Nos. C915198B, C915198C, C915198E, and C915198K) of the Tecumseh Phase II Business Park Brownfield Cleanup Program (BCP) Site in Lackawanna, NY (see Figures 1 and 2).

The IRM work was completed on behalf of Tecumseh Redevelopment Inc. (Tecumseh) through the New York State Department of Environmental Conservation (NYSDEC) BCP to address metal-impacted "hotspot" slag/fill previously identified within the subject sub-parcel areas. Remediation of these metal-impacted hotspots under an IRM program was undertaken to expedite cleanup of the associated impacts while facilitating redevelopment of the subject BCP Sites for commercial and industrial reuse.

1.1 Background

1.1.1 Remedial Investigation

The 142.17-acre Phase II Business Park formerly housed several facilities associated with the Bethlehem Steel Corporation's (BSC's) steel manufacturing processes. These included a pure oxygen generating station (known as South Linde Area); various mills; a structural shipping yard; a car repair shop; metal storage; and miscellaneous office production support buildings. Five historical SWMUs (i.e., P-38 through P-42) are present within the Phase II Business Park. BSC performed assessments for these SWMUs during a Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) and subsequent RCRA Facility Investigation (RFI). Based on the findings, USEPA Region II issued "No Further Action" determination for the identified SWMUs within the Phase II Business Park.

The BCP application for the Site was submitted May 20, 2005 and approved January 9, 2007. The Remedial Investigation/Alternatives Analysis Report (RI/AAR) Work Plan, revised July 2009, identified Site characterization requirements to be completed pursuant to the BCP and NYSDEC DER-10 guidance. Remedial Investigation (RI) field activities were initiated in March 2010 and substantially completed in April 2010.

The RI/AA Report was submitted to NYSDEC in May 2011 and revised and finalized in March 2012. The RI/AA Report recommended remediation of hotspot



slag/fill with deferred soil cover system placement during redevelopment recommended as the final remedial measure for all areas of the Site.

1.1.2 Sub-Parcel Approach

The Phase II Business Park as well as other Tecumseh Business Parks (i.e., I, IA, and III) were so designated by Tecumseh based on the concept of voluntarily remediating them and subsequently selling or leasing the "shovel-ready" Business Park parcels to local developers or private businesses interested in redeveloping the land for commercial or industrial uses consistent with City zoning. Recognizing the sheer size of these parcels, the cost and short-term impacts associated with cleanup, and the limited western NY commercial/industrial real estate market demand, a sub-parcel cleanup approach was conceived by Tecumseh and agreed upon by the NYSDEC. Under the sub-parcel approach, hotspot slag/fill remediation and other remedial measures (except cover placement) will be performed by Tecumseh on a priority basis (i.e., parcels pending potential sale, lease, and/or redevelopment first). Placement of the final cover will also progress on a sub-parcel basis by the buyer or lessee concurrent with building construction and/or other site improvements, thereby allowing the cover to be integrated with roads, buildings, parking areas, etc. Certificate of Completion (COC) issuance by the NYSDEC will also occur on a sub-parcel basis after cover is placed by the buyer/developer (subject to provisions of a NYSDEC-approved Site Management Plan and Environmental Easement encompassing entire Business Park).

Based on this approach, Tecumseh prepared sub-parcel delineation maps for each of the three larger Business Park Areas (I, II, and III). Business Park II was subdivided into twelve sub-parcels designated as II-1 through II-12 (Sites C915198 through C915198L, respectively).

1.1.3 IRM Work Plan

The proposed IRM activities were presented in the NYSDEC-approved July 2013 IRM Work Plan for Business Park Sub-Parcels II-2, II-3, II-5, and II-11, prepared by TurnKey in association with Benchmark Environmental Engineering & Science, PLLC. Completion of the proposed work as an IRM furthered the sub-parcel remediation progress making the sites more attractive to prospective buyers. In general, the planned work included:



- Excavation and off-site disposal of arsenic-impacted hotspot slag/fill.
- Loading, transportation and off-site commercial solid waste landfill disposal of the hotspot slag/fill.

1.2 **Purpose and Scope**

This CCR includes a summary of interim remedial measure (IRM) activities undertaken on Business Parks II-2, II-3, II-5, and II-11. This Construction Completion Report (CCR) has been prepared to document "as constructed" details for the work, including results of environmental monitoring and post-excavation documentation samples. NYSDEC-approved deviations from the approved IRM Work Plan, issues encountered, and remedies are also described herein.

The CCR has been prepared using guidance from Section 5.8 of DER-10 and includes:

- Text describing the hotspot removal, regarding, and disposal activities performed. This includes an evaluation of the IRM activities against the Remedial Action Objectives for hotspot removal in the subject Phase II-2, II-3, II-5, and II-11 sub-parcels.
- A description of any problems encountered, deviations from the work plan, and associated corrective measures taken; and other pertinent information necessary to document that the Site activities were carried out in accordance with the governing document (IRM Work Plan) identified in Section 2.2 of this report.
- A Site or area planimetric map showing the extent of hotspot areas excavated.
- The mass of hotspot material excavated per scale receipts from the off-site disposal facility.
- Copies of daily inspection reports and, if applicable, problem identification and corrective measure reports.
- A certification by a licensed NYS Professional Engineer in accordance with Section 1.5 of DER-10.



The IRM CCR will be referenced in the Final Engineering Reports for sub-parcels II-2, II-3, II-5, and II-11, which will be prepared by the sub-parcel purchaser to document satisfactory cover placement and other requirements under the BCP as necessary to secure a COC.



2.0 DESCRIPTION OF IRM ACTIVITIES PERFORMED

2.1 Remedial Objectives

Remedial objectives for subject IRM work involved removal of known hotspots from the Business Park II sub-parcels II-2, II-3, II-5, and II-11, including arsenicimpacted slag/fill above the site-specific action level of 118 parts per million and grosslyimpacted slag/fill, which included areas exhibiting field evidence of petroleum impact. These remedial objectives were established, consistent with the approved RI-AA Report, with the intent of rendering the site suitable for final remedial measure construction (i.e., site cover and engineering/institutional controls).

2.2 Governing Documents

The governing document for the Business Park II sub-parcels II-2, II-3, II-5, and II-11 activities is identified as follows:

• Interim Remedial Measures (IRM) Work Plan for Business Park Sub-parcels II-2, II-3, II-5, and II-11. TurnKey/Benchmark, July 2013. (*Includes Site-Specific Health and Safety Plan and Community Air Monitoring Plan*).

2.3 General Site and Nuisance Controls

Due to the relatively small areas of disturbance required to complete the subparcel II-2, II-3, II-5, and II-11 IRM work and the permeable nature of the slag (which precludes surface water runoff) no specific nuisance controls were required. The selected General/Site Work contractor was prepared to implement dust control, if needed, however the relatively minor nature of the intrusive work and favorable community air monitoring results (see below) precluded the need for dust suppression.

2.4 Community Air Monitoring Results

Community air monitoring was performed during times of impacted soil/fill excavation work, excluding dates where precipitation mitigated emissions and precluded monitor setup. Community air monitoring documentation is contained in Appendix C. No exceedances of the Community Air Monitoring Plan action levels were recorded during the work.



2.5 Excavation and Re-grading of Hotspot Areas

2.5.1 Waste Characterization

Prior to performing the remedial work, Benchmark collected a waste characterization sample to determine the suitability of the impacted soil/slag-fill to be disposed off-site as non-hazardous waste. Specifically, a composite sample was collected from each of the five areas designated for disposal and analyzed for leachable (RCRAregulated) metals in accordance with the TCLP. Analytical results are summarized in the IRM Work Plan. Based on the waste characterization results, the soil/slag-fill material from the five areas of excavation was deemed suitable for off-site disposal as nonhazardous waste.

2.5.2 Arsenic-Impacted Hotspot Excavations

IRM activities were initiated on August 1, 2013. Zoladz Construction Company of Alden, New York was retained under subcontract to TurnKey to provide excavation and trucking services. Following survey stakeout of the original hotspot coordinates, excavation of arsenic-impacted soil/slag-fill was initially completed to pre-established limits based on the supplemental RI test pit investigations performed in February 2012.

- Hotspot J (Test Pit BPA2-TP-10): Excavation proceeded to a depth of 2 feet below grade within a footprint of 30 feet by 20 feet.
- Hotspot K (Test Pit BPA2-TP-21): Excavation proceeded to a depth of 2 feet below grade within a footprint of 25 feet by 20 feet.
- Hotspot M (Test Pit BPA2-TP-52): Excavation proceeded to a depth of 2 feet below grade within a footprint of 20 feet by 20 feet.
- Hotspot N (Test Pit BPA2-TP-58): Excavation proceeded to a depth of 2 feet below grade within a footprint of 20 feet by 25 feet.
- Hotspot O (Test Pit BPA2-TP-103): Excavation proceeded to a depth of 2 feet below grade within a footprint of 20 feet by 30 feet.

In accordance with the approved IRM Work Plan, documentation samples were collected from the floor and sidewalls of the arsenic hotspot areas following completion of the excavation work and compared to the Site-Specific Action Levels (SSALs) for arsenic of 118 parts per million. The excavated soil/fill material was temporarily



stockpiled on-Site within the excavation footprint pending receipt and review of the sample data. Documentation sample results are presented in Section 2.6.

At Test Pits BPA2-TP-10, BPA2-TP-52, and BPA2-TP-103 the documentation results fell below the SSAL in all samples except the southern excavation walls. The southern excavation walls for each of the excavations were generally extended an additional 5 to 10 feet in the same direction, retested for arsenic, and if necessary excavated an addition 5 to 10 feet and retested until the corresponding sample concentrations fell below the SSAL. At Test Pit BPA2-TP-21 and BPA2-TP-58, compliance sampling for all four sidewall samples and the bottom sample fell below the arsenic SSAL. Accordingly, no further excavation work was performed at these locations. The final dimensions of all Test Pits are provided below, depicted on Figure 3, and tabulated on Table 1, attached.

- Hotspot J (Test Pit BPA2-TP-10): Final excavation completed to a depth of 2 feet below grade within a footprint of 30 feet by 40 feet. A total of 179.05 tons of material was disposed of off-Site.
- Hotspot K (Test Pit BPA2-TP-21): Final excavation completed to a depth of 2 feet below grade within a footprint of 25 feet by 20 feet. A total of 88.23 tons of material was disposed of off-site.
- Hotspot M (Test Pit BPA2-TP-52): Final excavation proceeded to a depth of 2 feet below grade within a footprint of 20 feet by 30 feet. A total of 43.51 tons of material was disposed of off-site.
- Hotspot N (Test Pit BPA2-TP-58): Final excavation proceeded to a depth of 2 feet below grade within a footprint of 20 feet by 25 feet. A total of 68.38 tons of material was disposed of off-site.
- Hotspot O (Test Pit BPA2-TP-103): Final excavation proceeded to a depth of 2 feet below grade within a footprint of 20 feet by 45 feet. A total of 151.95 tons of material was disposed of off-site.

2.5.3 Lead-Impacted Hotspot Excavation

In addition to the above-referenced work outlined in the IRM Work Plan, an elevated concentration of lead (12,300 mg/kg) was detected at Test Pit BPA2-TP-58 in exceedance of the lead SSAL (3,600 mg/kg) during the Remedial Investigation (see the



RI/AAR). Accordingly, the excavation sidewall and bottom samples for Hotspot N were also analyzed for lead. All samples fell below the lead SSAL and no further excavation work was performed at this location.

2.5.4 Hotspot Disposal

Arsenic- and lead-impacted materials were transported by Zoladz Construction (License 9A499) to the Chautauqua County Ellery Landfill, a permitted RCRA Subtitle D sanitary landfill facility, in accordance with Disposal Permit CC0715.13S1 issued on July 16, 2013 (see Appendix D). All material was shipped off-Site on December 5-6, 2013. Copies of non-hazardous waste disposal manifests are presented in Appendix E. Scale receipt information provided by the landfill indicated a total disposal weight of 531.12 tons. Copies of the scale receipts are presented in Appendix F.

2.5.5 Backfill and/or Re-grading of Excavations

With the exception of Hotspot M, excavation areas were not backfilled to grade pending Site development. Instead, the sides of the 2-foot deep excavations were gradually sloped and graded to make a smooth transition to the surrounding area. This will minimize waste generation during site redevelopment, as excess fill generated from onsite foundation work and subgrade utility installation can be placed in these excavation areas if approved by the NYSDEC.

Due to the proximity to the railroad tracks, Hotspot M was backfilled with 30 tons of BUD-approved slag (BUD# 555-9-15) from Iron City.

2.5.6 Soil Cover System

Exposure to remaining slag/fill at the site will be prevented by a cover system placed over the site. The cover system will, ideally, be installed by Site purchaser(s) as a component of the site redevelopment. The cover system will consist of either a demarcation layer atop the remaining slag/fill followed by a 12-inch compacted slag layer in general yard and material laydown areas, or 12-inches of clean soil with a vegetated surface in landscaped areas. Asphalt pavement, concrete floors/exterior slabs, and concrete walks may provide cover in other areas of the property. A Remedial Action



Work Plan documenting the proposed cover plan will be prepared and submitted to the Department for approval under separate cover prior to undertaking the work.

2.6 Documentation Sampling

Per the July 2013 IRM Work Plan, documentation sample results were collected from the sidewalls and base of the arsenic-impacted soil/fill excavation areas. Documentation sample results are included in Appendix G. Final results for the completed excavations are summarized on Table 1. As indicated, all sample concentrations fell below the arsenic or lead SSALs of 118 and 3,600 mg/kg, respectively.

2.7 Issues Encountered and Corrective Actions

No issues or corrective actions were undertaken as part of the implementation of the above-described IRM implementation.



TABLES





TABLE 1

HOTSPOT SOIL ANALYTICAL SUMMARY

BUSINESS PARKS II-2, II-3, II-5, AND II-11

BUFFALO, NY

						_	S	ample Location	on																							
pecific			Hotspot J					Hotspot K					Hotspot M																			
Soil Cleanup Objectives 10 No	10 North	30 South	10 East	20 West	Floor (2')	10 North	10 South	15 East	10 West	Floor (2')	10 North	20 South	10 East	10 West	Floor (2')																	
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						Sample	Location				
	Site Specific			Hotspot N					Hotspot O		
PARAMETER'	Soil Cleanup Objectives	10 North	15 South	10 East	10 West	Floor (2')	10 North	45 South	10 East	10 West	Floor (2')
Total Metals - mg/Kg											
Arsenic	118	100	51	46	51	63	5.7	96	87	14	19
Lead	3,900	390	280	230	520	160	-	-	-	-	-

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.

Definitions:

ND = Parameter not detected above laboratory detection limit. *--⁷ = No value available for the parameter or parameter not analysed for. J = Estimated value; result is less than the sample quantitation limit but greater than zero. Bold = exceeds Site specific SCOs

FIGURES



FIGURE 1







APPENDIX A

PROJECT FIELD NOTES



Sheet BENCHMARK of. Project No.__ By ______ Checked_____ Date 5/31/13 Date ENGINEERING & Subject SCIENCE, PLLC BP II+III Hot spot Technisch Sapling 13PIL 11:05 - Sempled 2 spots or 6" (~5' o.c. enh E tow) 1407 Spot دم ه 11:20 - Simpled & sports or on (n 510.0. of exact correlinate) K: M: 11:40 - Surpled 2 pots 0-6" (+5 ac. st exact conducte) Nº 12:00- Simpled 2 goots 0.10" (Is 'Oc. exact cood each Etach) 10 12:20 - Scopple 2 =pots 06 (-10" O.E. exact could, compute the SE) Note: Most of TP in building Ptpart All concrede, brick, Mutal mitasful except SE end of TP area BPIT Hot spef 13:45- Supled 2 spots orce" (15'd.c. excepted A! to N to S C. 141-10 - Danpled 3 3 pots 0-6" (alcontro 100 0. c excel courd to E and we have E: 14:35: D. I not somple ble under sol ple from TT H ! 15-00 ! Supud 2 spot b-6" (~510.c. exat and Etow)

47 -0835-1,2,00 Suils near Ditel Aury DE 2014 "C" - muss edra / FOG -Park H. This is wants. 40040 × NO Mr. murthes spend out to 0730 1/2 20 3 Rening - Bus DUIZZIE Frans Lybrsport Date 8 jouren /20405-20 20 (2 10 2 king 1 410 - 201 - C - 12 - 22 - 14 1-1-1-211 + Cloudy 38 05-27 OR12216 april of 1214 5003 -12-2-3 - 51 105-Aerus X 2 low Slow Mumber H. Republic) Project / Client Derde 長気 Location _ 2 1530- COMPLE Excention at 1907 Sevt 1630 min and BACK Fill and 107 2 017 Road Rock Dar Mills 07 2' SINS - Mis 2000 the Las Brilling 0.e to 10-500 mis reaconty 01 R. R. Mark 1500 - COMPLETE LATSOF 'IK" SUS PAN IT 0730- ausile, 51440 Alt man 403 were that of 1-101 \$01 "0" - 13esin Ort campus of 1-105 \$01 "0" (10mour) 11/15/13 Suny -22 0/ - 2000 - 20-35 mpt 1530 complete 14Ut Split will CULCIER DEPUIS From 020 BUDS Date Fundations 1630-051/ Project / Client Location 46

45 20,21 Non ver FPOP-5 0 1 7 Horson Destrude COMPLER L'XCALM PUN - martine excou a tor Date 2012 Excadente 10 134- Complete Stork pilled-17:00 to 110 +00 + 500 + OXYJ- BESHU- Styler PILLS Brun DISCH Berlin 23 Bus park. 1025104 2) ed + 1/1 cn S24103e. Stock plan + ۲ BUD. 1:00 + B.eg.2 13500 mushize 12, 45 - 1336 Diod - Blenk 1 14/15T dongler Hotsph WILL ZX color 142 5 Stay & Hogz H Hock tabl Project / Client 0 J34-Location _ The material liges \$19362 alwy worth A TOML OF & LOWS REVE TONEN OFFSAR. The Parainey an Impossion SOIL FILL MAS Sprend acon 23 BUS Park III LEST & MURTH-UF Improved SMS/ File was Inter CFESIJE 11/14/13 /-/07 5007 Remo UAL BUS PANK to the ZIIENY CAWITIC, AS Runt OF the Suils Exchanted Fan the Unily line to helded tube a hang High may 3. OF HUT SOF 11/1/13 - FOUR 100 25 OF AWART / FAC. 0732- meet w/2UNUZ Opental Jr HOTSPOT AREA WH' Carthauter USins SIDE OFTER THE WEIVE Garage 7 Date M 21 ANC MULINOM ANA FOR Weildred Jule. Blue Gamise. Dec 23500 Project / Client S.C.t. U Location _ Stock 4

Date Location Date Date Project / Client Date	
Date Location Location Location Lumu3 Cash Location Project / Client Location Project / Client Location Project / Client Lumu3 Cash Location Project / Client Lumu3 Cash Location Project / Client	
Date Location Location Location Numu(S) Calu Numu(S) Calu Project / Client Project / Client Project / Client	
Date Date Date Date Date Date	
Date Date Date Date Lunds Calm Row Calm Row 2011 Calm Row 1000000000000000000000000000000000000	
2102 2001 2001 2001	
ocation	

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CONTRACTOR OF STREET, S

APPENDIX B

CAMP FIELD DATA SHEETS & AIR MONITORING DATA



& TURNKEY Brownser, LC

COMMUNITY AIR MONITORING DAILY LOG

Date:	$\sum f = f \circ f = f / f$
Project:	Bus Park II Arsenic/Pb Hotspot Removal
Job No.:	
Client:	Tecumseh Redevelopment Inc
LOCATION	of ACTIVITIES/MONITORING STATIONS (Provide Sketch

WEATHER CONDITIONS:

e of Day: $/2 \infty$ ArM. $P_{/}$	bient Air Temp.: 29%	d Direction:	d Speed: /0~25 A	sipitation:	
.700 P.M.	210 95	······································	+ 10-22 ml	Comment of the commen	

DESCRIPTION OF SITE ACTIVITIES: Stockpiling excavated soils for off-site disposal

on Attached Map):

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stonpage etc.)
Exceedence of 100 ug/m3 ¹			12/20		
Exceedence of 150 ug/m3 ¹			NONE		
Visual Observation of Fugitive Dust			A		
			AA		
			NA		

	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm ¹			24114		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm ¹			rart		Temporarily halt Work, abate emissions with corrective actions and continue monitoring ³
Exceedence of 25 ppm ²			NUNE		Shut Down Work Immediately and notify Site Safety & Health Officer
				_	

I. Above background for 15 minute moving average.

2. Above background at Site perimeter (indicate location on attached sketch)

3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min. NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Date: 11-14-13	Date:
CT 70	
Prepared By:	Checked By:

		nov 14 hot	snot h	
"Model Number".	"DataRAM 4 "	106	spor n	
"Serial no "	"0835 "	100		
"Device no "	1			
"Tog Numbers "	1			
lag Number	53			
"Start Time ",	08:40:01			
"Start Date "	14-Nov-2013			
"Log Period ".	00:15:00			
"Number "	2			
"CalFactor "	1 000000			
	7.00000			
UNIL	0			
Unit Name ",	"(MASS)ua/m3	**		
"SIZE_CORRECT",	"ENABLED"			
"TEMPUNITS "	F			
"Max MASS "	8 457344			
"May MASS @ "	1 00.55.01	44		
"Ava MASS "	T .00:22:01	,14-Nov-2013		
AVY MASS	0.012031			
Max Diam	0.442423			
"Max Diam @ ",	2,09:10:01	.14-Nov-2013		
"Avg Diam ".	0.423143)~·		
"ALĂRM "	DTSARLED ¹¹			
"ALARM LEVEL ""	0 0			
"A7 THISONAL "	DISABLED			
AZ INTERVAL	1			
Errors ",	0000			
record,"(MASS)u	g/m3", Temp. F	RHumidity, nia	motor	
1, 8	5. 62.5.			44
2. Å	8 53 6 2		100:00:01	,14-Nov-2013
-, 1	(0) JJ(0, Z	.9, 0,4424	,03:10:01	,14-Nov-2013

"Model Number "Serial no. "Device no. "Tag Number "Start Time "Start Date "Log Period "Number "CalFactor "Unit "Unit Name	er", "D ", 1 ", 54 ", 09 ", 14 ", 07 ", 17 ", 17 ", 1.(", 0	ataRAM 4 835 ! :45:23 -Nov-201 :15:00 000000	", 1(3	nov 14 h 06	ot spot c	
"SIZE_CORREC	T", "EN	IABLED"	/m3~			
"Max MASS	", 15.	149160				
"Avg Mass @	", <u>1</u> 2 ", 8.0	,12:45: 76149	23 ,	14-Nov-20	13	
"Max Diam "Max Diam @	", 0.8 ", 16	55347	<u>.</u>			
"Avg Diam	", 0.6	11528	23 ,.	L4-Nov-20:	13	
"ALARM_LEVEL	", "DI ". 0.0	SABLED"				
"AUTO_ZERO	", "DI	SABLED"				
AZ INTERVAL	", 1	-				
record "(MAG	000	0				
1.	, jug/ill. 6 5		, RHun	ndity, Di	ameter	
$\overline{2}$	5.8.	40.0,	38,	0.5513	,10:00:23	14-Nov-2013
3,	Ž.Š.	43.2	40,	0.5354	,10:15:23	14-Nov-2013
4,	6.1.	42.8	43,	0.6/49	,10:30:23	,14-Nov-2013
5,	6.7.	42.9	47,	0.230/	,10:45:23	,14-Nov-2013
6,	8.3.	43.3	47'	0.0004	,11:00:23	,14-Nov-2013
7,	5.9.	43.8.	46'	0.0449	,11:15:23	,14-Nov-2013
8,	6.0	44 5	45	0.4303	,11:30:23	,14-Nov-2013
_9,	9.9	45.3.	43	0.4770	,11:45:23	,14-Nov-2013
10,	9.2,	46.1.	42.	0 7743	12,15,22	,14-Nov-2013
11, 12,	6.1,	46.7,	41.	0.4950	12,20,22	,14-Nov-2013
12, 12	15.1,	47.4,	40,	0.7535	12.45.02	,14-Nov-2013
14	<u> </u>	47.8,	39,	0.6294	13:00:23	14 Nov-2013
15,	4.4,	48.5,	39,	0.5870	13 15 23	14-NOV~2013
16.	13 7	49.2,	38,	0.5351	13:30 23	.14-NOV-2013
īř.	7 0	49./,	5/,	0.8553	,13:45:23	.14-Nov-2013
•	,,	30141	50,	U.5328	,14:00:23	,14-Nov-2013

		nov 14 hot	t snot a	
"Model Number".	"DataRAM 4 "	106	r shor e	
"Serial no. "'	"0835 1 "	, 100		
"Device no "	1			
"Tag Numbon "	сс Т			
Tay Number))			
Start lime ",	14:19:03			
Start Date ",	14-Nov-2013			
"Log Period ",	00:15:00			
Number ".	3			
"CalFactor ".	1.000000			
"Unit "	0			
"Unit Name "	"(MASS)ug/m	1 ¹¹		
"STZE CORRECT"		5		
"TEMPLINITC "	CIVADLED			
PHONE MACO				
Max MASS	5.977510			
MAX MASS (0 ",	1,14:34:03	,14-Nov-2013		
"AVG MASS ",	4.781196	•		
"Max Diam ",	0.405477			
"Max Diam @ ".	3 .15:04:03	-14-Nov-2013		
"Avg Diam "	0.392754	121 1101 2013		
"ALARM "				
"ALARM LEVEL "	01000000			
PAT THTEDVAL	DISABLED			
AZ INTERVAL	1			
Errors ",	0000			
record,"(MASS)u	g/m3", Temp,	RHumidity. Dia	ameter	
1, 6	.0, 52.4,	35. 0.3918	14 34 03	14 - Nov - 2012
2, 4	.3. 51.4.	36. 0.3810	14 40 02	14 Nov 2013
3, 4	1. 51.0	38. 0 4055	15.04.02	14 Nov-2013
•	, •,	JULI I VITUJJ	111104100	,14-NOV-2013

	nov 14 hot spot a	
"Sonial no "	DataRAM 4 ", 106	
"Dout go no ",	"D835 ! "	
"Tom Number 11		
tag Number ",	56	
Start Time ",	15:14:03	
"Start Date ",	14-Nov-2013	
"Log Period ",	00:15:00	
"Number "	1	
"CalFactor "	1.000000	
"Unit "	0	
"Unit Name "	"(MASS)ug/m2"	
"SIZE CORRECT"		
"TEMPUNTTS "		
"Max MASS "	, 806300	
"Max MASS @ "'		
"Ava Mass "'	2 06200 ,14-NOV-2013	
"May Diam "	J • 020309 0 • 402041	
"May Diam @ "		
"Ava Diam "	1,15:29:03,14-Nov-2013	
	DISABLED.	
PAUTO TEDO U		
AUTO_ZERO ",	'DISABLED''	
AZ INTERVAL ",		
Errors "	1000	
recorg,"(MASS)u	J/m3", Temp, RHumidity, Diameter	
1, 3	9, 52.2, 37, 0.4030, 15.29.03, 14 10.1 201	-
	12122100 ,14-NOV-201	3

н. т		nov 14 ho	t snot n	
"Model Number"	"DataRAM 4 "	106	c spor n	
"Serial no. "	"0835	, 100		
"Device no "	1 1 1			
	<u> </u>			
iag Number ",	57			
"Start Time "	16.20.38			
"Start Dato "	14 Nov 2012			
"Log David "	T4-NOV-2013			
Log Period ",	00:15:00			
Number "	2			
"CalFactor "	1 000000			
"Unit "	1,000000			
UNIC Name ",	∷(MASS)ug/m	3"		
"SIZE_CORRECT",	"ENABLED"			
"TEMPUNITS "	F			
"Max MASS "	3 364574			
"May MASS @ "	1 16.25.20			
HAVE MACE II'	1,10:20:38	,14-Nov-2013		
AVY MASS,	3,152959			
"Max Diam ",	0.442582			
"Max Diam @ "	1 16.35.38	14-Nov 2012		
"Avg Diam "	A 26452	, 14~100-2012		
	DI SARLED.			
ALARM_LEVEL ",	0.0			
"AUTO_ZERO ",	"DISABLED"			
"AZ INTERVAL "	1			
"Errors "	ດັດດຸດ			
record "(wase Su	a (m2) - manua			
100014, (10435)4	gyms _ remp,	RHumidity, Dia	ameter	
1, <u>3</u>	.4, 55.0,	34 0.4426	.16:35.38	14-Nov. 2012
2, 2	.9, 54.4.	31. 0.4103	16.50.39	14 Nov 2012
		, 011200	120110120	, 14~NOV-2013

Instrument: MiniRAE 2000 User ID: PID 4 Data Points: 256 Last Calibration Time: 1 Start At: 11/14/2013 10:	(PGM7600) Site ID: PID 4 9 Gas Name: Isobut 1/11/2013 12:13 02 End At: 11/14/20	Serial N 57 tylene Sample Pe 013 17:07	umber: 012790 riod: 100 sec
Measurement Type: High Alarm Levels: Low Alarm Levels: STEL Alarm Levels: TWA Alarm Levels:	Min(ppm) 100.0 50.0 25.0 10.0	Avg (ppm) 100.0 50.0 25.0 10.0	Max(ppm) 100.0 50.0 25.0 10.0
Measurement Type: Peak Data Value: Min Data Value: TWA Data Value: AVG Data Value:	Min (ppm)	Avg (ppm) 0.0 0.0 0.0 0.0 0.0	Max (ppm) 0.3 0.0 0.0 0.0

Instrument:	MiniRAE	2000	(PGM7600)

User ID: PID 4 Site ID: PID 4 57 Data Points: 24 Gas Name: Isobutylene Last Calibration Time: 11/11/2013 12:13

Sample Period: 100 sec

Measu Alarm Alarm	rement Type Type: Levels:	:	STEL 25.0	Min(pp TWA 10.0	m) AVG	STEL 25.0	Avg(ppm) TWA 10.0	AVG	STEL 25.0	Max(ppm) TWA 10.0	AVG
				Min(pp	m)		Avg (ppm)			Max(ppm)	===
Line#	Date	Time	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	11/14/2013 11/14/2013 11/14/2013 11/14/2013 11/14/2013 11/14/2013 11/14/2013 11/14/2013 11/14/2013 11/14/2013 11/14/2013 11/14/2013 11/14/2013 11/14/2013 11/14/2013 11/14/2013	08:57 08:58 09:00 09:02 09:03 09:05 09:07 09:08 09:10 09:12 09:13 09:15 09:17 09:18 09:20 09:22						0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0			0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
17 18	11/14/2013	09:23				0.0	0.0	0.0	0.0	0.0	0.0
19	11/14/2013	09:27				0.0	0.0	0.0	0.0	0.0	0.0
20	11/14/2013	09:28	·····			0.0	0.0	0.0	ŏ.ŏ	0.0	0.0
21	11/14/2013	09:30			** ** ** ** **	0.0	0.0	0.0	0.0	0.0	0.0
23	11/14/2013	00:33				0.0	0.0	0.0	0.0	0.0	0.0
24	11/14/2013	09:35				0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0

Instrument: MiniRAE 2000 (PGM7600) User ID: PID 4

Data Points: 256

Site ID: PID 4 57 Gas Name: Isobutylene

Last Calibration Time: 11/11/2013 12:13 Serial Number: 012790

Sample Period: 100 sec

Mea Ala	sure rm T	nent Ty Vpe:	vpe:		c mo	Min()	ppm)	38235351	 Avg (pp	-====== m)	======	May /nr	********		
Ala ===	rm Le	evels:	• • • • • • •	-*==:	25.0	0 10.0	A AVG	STEL 25.0	TWA 10.0	AVG	STEL 25.0	TWA 10.0	AVG		
t 4	- #				ㅋㅋㅋ	Min(ppm)			Avg (pp	•======= m)	=======	Max (ppm)			
====:	0# =====	Da =====	te ===	Time =====) STEI	J TWZ	A AVG	STEL	TWA	AVG	===== STEL	 Twa			
	l 11	/14/20	13	10:02	?	•		·======= 0.0							
	2 II 3 11	/14/20	13	10:03	}		• •••••	0.0	0.0	0.0	0.0	0.0	0.0		
4	11	/14/20	13	10:03) ~~~~~ ' ~ ~~~~	• • • • • • •		0.0	0.0	0.0	0.0	0.0	0.0		
5	5 11	/14/20	13	10:08		· ••••		0.0	0.0	0.0	0.0	0.0	0.0		
6	5 11	/14/20:	13	10:10				0.0	0.0	0.0	0.0	0.0	0.0		
7		/14/20:	13 :	10:12				0.0	0.0	0.0	0.0	0.0	0.1		
a a	11	/14/203	13	10:13				0.0	0.0	0.0	0.0	0.0	0.1		
10	11	/14/201	L3. I3.1	10:15				0.0	0.0	0.0	0.1	0.0	0.1		
11	11	/14/201	3 1	0:18		****		0.0	0.0	0.0	0.1	0.0	0.1		
12	11	/14/201	3 1	0:20				0.0	0.0	0.0	0.1	0.0	0.1		
13	11,	/14/201	3 1	0:22				0.0	0.0	0.0	0.1	0.0	0.1		
14	11,	/14/201	.3 1	0:23				0.0	0.0	0.0	0.1	0.0	0.1		
16	11.	/14/201 /14/201	$\frac{31}{21}$	0:25	*** *** *** *** ***			0.0	0.0	0.0	0.1	0.0	0.1		
17	11/	$\frac{14}{201}$	31	0:27			*** *** *** ***	0.0	0.0	0.0	0.1	0.0	0.1		
18	11/	14/201	3 1	0:30				0.0	0.0	0.0	0.1	0.0	0.1		
19	11/	14/201	3 1	0:32				0.0	0.0	0.0	0.1	0.0	0.1		
20	11/	14/201	3 1	0:33				0.0	0.0	0.0	0.1	0.0	0.1		
22	11/	14/201	$\frac{31}{21}$	0:35		~~~~~	··· ··· ··· ···	0.0	0.0	0.0	0.1	0.0	0.1		
23	11/	14/201	3 1 3 1	0:37				0.0	0.0	0.0	0.1	0.0	0.1		
24	11/	14/201	3 1	0:40				0.0	0.0	0.0	0.1	0.0	0.1		
25	11/	14/201	3 1	0:42		~~~~~		0.0	0.0	0.0	0.1	0.0	0.1		
26	11/	14/201	3 1	0:43				0.0	0.0	0.0	0.1	0.0	0.1		
28	11/	14/201:	$\frac{3}{2}$	0:45				0.0	0.0	0.0	0.0	0.0	0.1		
29	11/	14/201	эц 316	J:47 λ+10				0.0	0.0	0.0	0.0	0.0	0.1		
30	11/	14/201:	3 1():50				0.0	0.0	0,0	0.0	0.0	0.1		
31	11/	14/2013	3 10):52				0.0	0.0	0.0	0.0	0.0	0.1		
32	11/	14/2013	3 1():53				0.0	0.0	0.0	0.0	0.0	0.1		
34	$\frac{11}{11}$	14/2013	5 I(8 10	1:55			*****	0.0	0.0	0.0	0.0	0.0	0.1		
35	11/	14/2013	$\frac{10}{10}$):58				0.0	0.0	0.0	0.0	0.0	0.1		
36	11/:	14/2013	11	:00				0.0	0.0	0.0	0.0	0.0	0.1		
37	11/1	4/2013	11	:02				0.0	0.0	0.0	0.0	0.0	0.1		
30 30	$\frac{11}{11}$	4/2013	11	:03			~~~~~	0.0	0.0	0.0	0.0	0.0	0.1		
40	11/1	4/2013	11	:05				0.0	0.0	0.0	0.0	0.0	0.1		
41	11/1	4/2013	11	:07				0.0	0.0	0,0	0.0	0.0	0.0		
42	11/1	4/2013	11	:10				0.0	0.0	0.0	0.0	0.0	0.0		
43	11/1	4/2013	11	:12				0.0	0.0	0.0	0.0	0.0	0.0		
44 15	$\frac{11}{1}$	4/2013	11	:13				0.0	0.0	0.0	0.0	0.0	0.0		
46	$\frac{11}{11}$	4/2013	11 11	:15				0.0	0,0	0.0	0.0	0.0	0.0		
47	11/1	4/2013	11	:18				0.0	0.0	0.0	0.0	0.0	0.0		
48	11/1	4/2013	11	:20				0.0	0.0	0.0	0.0	0.0	0.0		
49	11/1	4/2013	11	:22				0.0	0.0	0.0	0.0	0.0	0.0		
50 51	11/1	4/2013	11:	:23	***	·		0.0	0.0	0.0	0.0	0.0	0.0		
52	11/1	4/2013	11:	25				0.0	0.0	0.0	0.0	0.0	0.0		
53	11/1	4/2013	11.	28				0.0	0.0	0.0	0.0	0.0	0.0		
54	11/1	4/2013	11:	30				0.0	0.0	0.0	0.0	0.0	0.0		
55	11/1/	4/2013	11;	32				0.0	0.0	0.0	0.0	0.0	0.0		
00	11/14	1/2013	11:	33				0.0	0.0	0.0	0.0	0.0	0.0		

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0.0

57	7 11/14/201	3 11:35	;			0.0	0 0	0.0			
58	3 11/14/201	3 11:37		~		0.0	0.0	0.0	0.0	0.0	0.0
59) 11/14/201	3 11:38				0.0	0.0	0.0	0.0	0.0	0.0
60	11/14/201	3 11.40			*** *** *** ***	0.0	0.0	0.0	0.0	0.0	0.0
61		3 11:40 3 11:40		······	~	0.0	0.0	0.0	0.0	0.0	0 0
01	11/19/201	3 11:42		*** 200 2.4 2.4 2.4		0.0	0.0	0.0	0.0	0.0	0.0
02	11/14/201	3 11:43				0.0	0.0	0.0	0.0	0.0	0.0
63	3 11/14/201	3 11:45	~~			0 0	0.0	0.0	0.0	0.0	0.0
64	11/14/201	3 11:47				0.0	0.0	0.0	0.0	0.0	0.0
65	11/14/201	3 11:48				0.0	0.0	0.0	0.0	0.0	0.0
66	11/14/201	3 11,50				0.0	0.0	0.0	0.0	0.0	0.0
67	11/14/201	J 11,JU				0.0	0.0	0.0	0.0	0.0	0.0
60	11/14/201	3 11:52		··· ··· ··· ··· ···		0.0	0.0	0.0	0.0	0.0	õõ
00	11/14/201	3 11:53				0.0	0.0	0.0	ňň	0.0	0.0
69	11/14/201	3 11:55				0.0	0.0	0.0	0.0	0.0	0.0
70	11/14/201	3 11:57				0.0	0.0	0.0	0.0	0.0	0.0
71	11/14/201	3 11:58				0.0	0.0	0.0	0.0	0.0	0.0
72	11/14/201	3 12.00				0.0	0.0	0.0	0.0	0.0	0.0
73	11/14/201	3 12.00				0.0	0.0	0,0	0.0	0.0	0.0
71	11/14/201	2 12:02			~~~~~	0.0	0.0	0.0	0.0	0.0	0.0
74	11/14/201	3 12:03				0.0	0.0	0.0	0.0	0 0	å å
10	11/14/201	3 12:05				0.0	0.0	0 0	0.0	0.0	0.0
76	11/14/201	3 12:07				0.0	0 0	0.0	0.0	0.0	0.0
77	11/14/201:	3 12:08				ňň	ŏ.ŏ	0.0	0.0	0.0	0.0
78	11/14/201:	3 12:10				0.0	0.0	0.0	0.0	0.0	0.0
79	11/14/201:	3 12:12				0.0	0.0	0.0	0.0	0.0	0.0
80	11/14/2011	3 12,12				0.0	0.0	0.0	0.0	0.0	0.0
	11/14/2011	3 10.10	~~~~~			0.0	0.0	0.0	0.0	0.0	0.0
0.0	11/14/2013	5 12:15				0.0	0.0	0.0	0.0	0.0	ñ ñ
04	11/14/2013	3 12:17				0.0	0.0	0.0	0 0	õ.õ	0.0
83	11/14/2013	3 12:18				0.0	0.0	ññ	0.0	0.0	0.0
84	11/14/2013	3 12:20				0.0	ñň	0.0	0.0	0.0	0.0
85	11/14/2013	3 12:22				0.0	0.0	0.0	0.0	0.0	0.0
86	11/14/2013	3 12:23	- -			0.0	0.0	0.0	0.0	0.0	0.0
87	11/14/2013	12.25				0.0	0.0	0.0	0.0	0.0	0.0
88	11/14/2013	2 10.07				0.0	0.0	0.0	0.0	0.0	0.0
õõ	11/14/2013			**		0.0	0.0	0.0	0.0	0.0	ñň
09	11/14/2013	3 12:28				0.0	0.0	0.0	0.0	ñõ	0.0
90	11/14/2013	12:30	• • • •			0.0	0.0	0.0	0.0	0.0	0.0
91	11/14/2013	12:32				0.0	0 0	0.0	0.0	0.0	0.0
92	11/14/2013	12:33	*** *** *** *** -			ññ	0.0	0.0	0.0	0.0	0.0
93	11/14/2013	12:35				0.0	0.0	0.0	0.0	0.0	0.0
94	11/14/2013	12:37				0.0	0.0	0.0	0.0	0.0	0.0
95	11/14/2013	12.20				0.0	0.0	0.0	0.0	0.0	0.0
96	11/14/0010	10.40				0.0	0.0	0.0	0.0	0.0	0.0
07	11/14/2010	12:40				0.0	0.0	0.0	0.0	0.0	ñ ñ
21	11/14/2013	12:42				0.0	0.0	0.0	0.0	0.0	0.0
98	11/14/2013	12:43				0.0	0.0	ñň	0.0	0.0	0.0
99	11/14/2013	12:45				0.0	0.0	0.0	0.0	0.0	0.0
100	11/14/2013	12:47				0 0	0.0	0.0	0.0	0.0	0.0
101	11/14/2013	12:48				0.0	0.0	0.0	0.0	0.0	0.0
102	11/14/2013	12:50				0.0	0.0	0.0	0.0	0.0	0.0
103	11/14/2013	12.52				0.0	0.0	0.0	0.0	0.0	0.0
104	11/14/2013	12.52		~~~~		0.0	0.0	0.0	0.0	0.0	0.0
105	11/14/2010	12:00			** ** ** ** **	0.0	0.0	0.0	0.0	0.0	Õ Õ
100	11/14/2013	12:55				0.0	0.0	0.0	0.0	0.0	0.0
100	11/14/2013	12:57	*****			0.0	0.0	0.0	0.0	0.0	0.0
107	11/14/2013	12:58				0.0	0 0	ñ ñ	0.0	0.0	0.0
108	11/14/2013	13:00				0.0	0.0	0.0	0.0	0.0	0.0
109	11/14/2013	13:02				0.0	0.0	0.0	0.0	0.0	0.0
110	11/14/2013	13:03				0.0	0.0	0.0	0.0	0.0	0.0
111	11/14/2013	13:05				0.0	0.0	0.0	0.0	0.0	0.0
112	11/14/2013	13.07			~~~~	0.0	0.0	0.0	0.0	0.0	0.0
113	11/1//2012	12.00				0.0	0.0	0.0	0.0	0.0	0 0
11/	11/11/2013	10:08				0.0	0.0	0.0	0.0	0 0	0.0
117 117	11/14/2013	13:10				0.0	0.0	0.0	ññ	0.0	0.0
112	11/14/2013	13:12			····-	0.0	0.0	0 0	0.0	0.0	0.0
116	11/14/2013	13:13				0 0	0 0	0.0	0.0	0.0	0.0
117	11/14/2013	13:15				0.0	0.0	0.0	0.0	0.0	0.0
118	11/14/2013	13:17				0.0	0.0	0.0	0.0	0.0	0.0
119	11/14/2013	13.10				0.0	0.0	0.0	0.0	0.0	0.0
120	11/1/2013	19.00				0.0	0.0	0.0	0.0	0.0	0 0
121	++/+*/4VL3	10:20		6 -0		0.0	0.0	0.0	0.0	0 0	0.0
100	11/14/0010	13:22				0.0	0.0	0.0	0.0	0.0	0.0
100	11/14/2013	13:23				0.0	0.0	0 0	0.0	0.0	V.V
123	11/14/2013	13:25				0.0	<u>0</u> 0	<u>0</u> 0	0.0	0.0	0.0
124	11/14/2013	13:27				ñõ	0.0	0.0	0.0	0.0	0.0
125	11/14/2013	13:28				0.0	0.0	0.0	0.0	0.0	0.0
						0.0	0.0	0.0	0.0	0.0	0.0
126	11/14/201	3 13:30				0 0	0.0	<u> </u>			
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127	11/14/201	3 13.30				0.0	0.0	0.0	0.0	0.0	0.0
128	11/14/201	2 10.02				0.0	0.0	0.0	0.0	0.0	0.0
100	11/14/201	3 13:33				0.0	0.0	0.0	0.0	0 0	0.0
129	11/14/201	3 13:35				0.0	0 0	0.0	0,0	0.0	0.0
130	11/14/201:	3 13:37				ñň	0.0	0.0	0.0	0.0	0.0
131	11/14/201	3 13:38				0.0	0.0	0.0	0.0	0.0	0.0
132	11/14/201	3 12.40				0.0	0.0	0.0	0.0	0.0	0.0
100	11/14/201	3 13:40				0.0	0.0	0.0	0.0	0.0	0 0
100	11/14/201.	3 13:42				0.0	0.0	0.0	0.0	0.0	0.0
134	11/14/2013	3 13:43				0.0	0 0	0.0	0.0	0.0	0.0
135	11/14/2013	3 13:45				0.0	0.0	0.0	0.0	0.0	0.0
136	11/14/2011	3 13.47				0.0	0.0	0.0	0.0	0.0	0.0
137	11/1/2011	2 12.40			····	0.0	0.0	0.0	0.0	0.0	0.0
120	11/14/2013	5 13:48	*****			0.0	0.0	0.0	0.0	0.0	0 0
138	11/14/2013	3 13:50	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			0.0	0 0	0 0	ñ ñ	0.0	0.0
139	11/14/2013	3 13:52				0.0	0.0	0.0	0.0	0.0	0.0
140	11/14/2013	3 13:53				0.0	0.0	0.0	0.0	0,0	0.0
141	11/14/2013	111.55				0.0	0.0	0.0	0.0	0,0	0.0
1 4 0		2 IO:00				0.0	0.0	0.0	0.0	0.0	0.0
142	11/14/201.	3 13:57			** + -	0.0	0.0	0.0	0.0	0 0	0.0
143	11/14/2013	3 13:58	- -			0.0	0.0	0 Õ	0.0	0.0	0.0
144	11/14/2013	3 14:00				0 0	0.0	0.0	0.0	0.0	0.0
145	11/14/2017	3 14+02				0.0	0.0	0.0	0.0	0.0	0.0
146	11/14/2012	14.02				0.0	0.0	0.0	0.0	0.0	0.0
1 4 7	11/14/2013) 14:03		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		0.0	0.0	0.0	0.0	0.0	0 0
147	11/14/2013	3 14:05		··· ··· ··· ··· ···		0.0	0.0	0.0	0 0	0 0	0.0
148	11/14/2013	3 14:07				0.0	n n	0.0	0.0	0.0	0.0
149	11/14/2013	3 14:08				0.0	0.0	0.0	0.0	0.0	0.0
150	11/14/2013	14.10				0.0	0.0	0.0	0.0	0.0	0.0
151	11/1//2012	7 14.10				0.0	0.0	0.0	0.0	0.0	0.0
160	11/14/2013) 14:12				0.0	0.0	0.0	0.0	0.0	0.0
122	11/14/2013	14:13				0.0	0.0	0.0	0 0	0.0	0.0
153	11/14/2013	14:15				0 0	ñ ñ	0.0	0.0	0.0	0.0
154	11/14/2013	14:17				0.0	0.0	0.0	0.0	0.0	0.0
155	11/14/2013	14.10				0.0	0.0	0.0	0.0	0.0	0.0
166	11/14/2010	14.00				0.0	0.0	0.0	0,0	0.0	0.0
100	11/14/2013	14:20				0.0	0.0	0.0	0.0	0 0	0 0
157	11/14/2013	14:22	~~~ ~~ ~~			0.0	0.0	0 0	0.0	0.0	0.0
158	11/14/2013	14:23				0 0	0.0	0.0	0.0	0.0	0.0
159	11/14/2013	14:25				0.0	0.0	0.0	0.0	0.0	0.0
160	11/14/2013	14.27				0.0	0.0	0.0	0.0	0.0	0.0
1 4 1	11/14/2013	14:27				0.0	0.0	0.0	0.0	0.0	0.0
101	11/14/2013	14:28				0.0	0.0	0.0	0.0	0 0	n n
102	11/14/2013	14:30			···	0.0	0.0	0 0	ñ ñ	0.0	0.0
163	11/14/2013	14:32				0 0	ññ	0.0	0.0	0.0	0.0
164	11/14/2013	14:33				0.0	0.0	0.0	0.0	0.0	0.0
165	11/14/2013	14.25				0.0	0.0	0.0	0.0	0.0	0.0
166	11/14/0010	14:00				0.0	0.0	0.0	0.0	0.0	0.0
100	11/14/2013	14:37				0.0	0.0	0.0	0.0	0 0	ñň
167	11/14/2013	14:38				0.0	0.0	0 0	0.0	0.0	0.0
168	11/14/2013	14:40				0.0	0.0	0.0	0.0	0.0	0.0
169	11/14/2013	14:42				0.0	0.0	0.0	0.0	0.0	0.0
170	11/14/2013	14 43				0.0	0.0	0.0	0.0	0.0	0.0
171	11/14/2010	14.45				0.0	0.0	0.0	0.0	0.0	0.0
171	11/14/2013	14:45				0.0	0.0	0.0	0.0	0.0	0.0
172	11/14/2013	14:47			~ -	0.0	0.0	0.0	n n	0.0	0.0
173	11/14/2013	14:48				0 0	0.0	0.0	0.0	0.0	0.0
174	11/14/2013	14:50		*** *** *** *** ***		0.0	0.0	0.0	0.0	0.0	0.0
175	11/14/2013	14.52				0.0	0.0	0.0	0.0	0.0	0.0
176	11/14/2012	14.52				0.0	0.0	0.0	0.0	0.0	0.0
170	11/14/2013	14:53	·····			0.0	0.0	0.0	0.0	0.0	<u>n</u> n
1//	11/14/2013	14:55				0.0	0.0	0.0	0 0	0.0	0.0 0
178	11/14/2013	14:57	··· ··· ·· ·· ·· ··			0 0	0.0	0.0	0.0	0.0	0.0
179	11/14/2013	14:58				0.0	0.0	0.0	0.0	0.0	0.0
180	11/14/2013	15.00				0.0	0.0	0.0	0.0	0.0	0.0
101	11/14/0010	15.00			*** *** *** *** ***	0.0	0.0	0.0	0.0	0.0	0.0
100	11/14/2013	12:02				0.0	0.0	0.0	0.0	n	0 0
T85	11/14/2013	15:03		~	••••	0.0	0.0	0.0	0.0	0.0	0.0
183	11/14/2013	15:05				0 0	<u> </u>	0.0	0.0	0.0	0.0
184	11/14/2013	15.07		No		0.0	0.0	0.0	0.0	0.0	0.0
105	11/11/0010	15.00				0.0	0.0	0.0	0.0	0.0	0.0
100	++/+4/2U13	T2:08				0.0	0.0	0.0	0.0	0.0	n n
190	11/14/2013	15:10				0.0	0 0	0 0	0.0	0.0	0.0
187	11/14/2013	15:12				0.0	0.0	0.0	0.0	0.0	0.0
188	11/14/2013	15:13				0.0	0.0	0.0	0.0	0.0	0.0
189	11/14/2012	15.14				0.0	0.0	0.0	0.0	0.0	0.0
100	11/1//0010	10.10			ha wa ca ao ao	0.0	0.0	0.0	0.0	0.0	0.0
101	11/14/2013	12:17				0.0	0.0	0.0	0.0	0.0	0.0
191	11/14/2013	15:18				0.0	0.0	0 0	0.0	0.0	0.0
192	11/14/2013	15:20				0 0	0.0	0.0	0.0	0.0	0.0
193	11/14/2013	15:22				0.0	0.0	0.0	0.0	0.0	0.0
10/	11/14/2012	16.00				0.0	0.0	0.0	0.0	0.0	0.0
1.7.3	*1/14/2013	10:52				0.0	0.0	0.0	0.0	0.0	0.0
									-		~

19	5 11/14/20	13 15:2	5			• •					
19	6 11/14/20	13 15.2	7	_		0.0	0.0	0.0	0.0	0.0	0 0
19	7 11/14/20	13 16.0	0			0.0	0.0	0.0	0.0	0 0	0.0
10	$\Omega = \frac{11}{11} \frac{11}{100}$	10 10:2	0			0.0	0.0	0 0	õ.õ	0.0	0.0
10		13 15:3	0			0.0	0 0	0.0	0.0	0.0	0.0
19	9 11/14/20:	13 15:3;	2			0.0	0.0	0.0	0.0	0.0	0.0
20	0 11/14/20:	13 15.3	3			0.0	0.0	0.0	0.0	0.0	0 0
20	1 11/1//201	12 15.2	c			0.0	0.0	0.0	0 0	0 0	0.0
20.	~ <u>11/14/20</u>	10 10:3		•		0.0	0.0	0 0	ŏ.ŏ	0.0	0.0
202	4 11/14/201	13 15:3	7	• •••••		0 0	Å Å	0.0	0.0	0.0	0.0
20:	3 11/14/201	13 15:31	8			0.0	0.0	0.0	0.0	0.0	0.0
204	4 11/14/201	3 15.40	<u> </u>			0.0	0.0	0.0	0.0	0.0	0 0
20	5 11/1//201	2 15.4	ວ ວ			0.0	0.0	0.0	0.0	0 0	0.0
204	· 11/14/201	15 15:42	<u> </u>			0.0	0.0	0.0	<u></u>	0.0	0.0
200	5 11/14/201	3 15:43	3	·		0 0	0.0	0.0	0.0	0.0	0.0
207	/ 11/14/201	.3 15:45	5			0.0	0.0	0.0	0.0	0.0	0.0
208	3 11/14/201	3 15:47	/			0.0	0.0	0.0	0.0	0.0	0.0
209	3 11/14/201	3 15.40	,		· · · · · · · ·	0.0	0.0	0.0	0.0	0 0	0. Õ
210	11/14/201	J 10:40	,			0.0	0.0	0 0	0.0	0.0	0.0
011	11/14/201	3 15:50)			0.0	0.0	0.0	0.0	0.0	0.0
211	. 11/14/201	3 15:52	?			0.0	0.0	0.0	0.0	0.0	0.0
212	11/14/201	3 15:53	}			0.0	0.0	0.0	0.0	0.0	0.0
213	11/14/201	3 15 55				0.0	0.0	0.0	0.0	0.0	0 0
214	11/14/201	2 10,00	,			0.0	0.0	0.0	0 0	òò	0.0
010	11/14/201	3 12:5/	· · · · · · ·			0.0	0.0	0.0	0.0	0.0	0.0
210	11/14/201	3 15:58				0.0	0.0	0.0	0.0	0.0	0.0
216	11/14/201	3 16:00				0.0	0.0	0.0	0.0	0.0	0.0
217	11/14/201	3 16 02				0.0	0.0	0.0	0.0	0.0	0 0
218	11/14/201	2 10 02				0.0	0.0	0.0	0 0	0 0	0.0
210	11/14/201	3 16:03				0.0	0 0	0.0	0,0	0.0	0.0
219	11/14/201	3 16:05				0 0	0.0	0.0	0.0	0.0	0.0
220	11/14/201	3 16:07				0.0	0.0	0.0	0.0	0.0	0.0
221	11/14/201	3 16.08				0.0	0.0	0.0	0.0	0.0	0 0
222	11/14/201	3 16.10				0.0	0.0	0.0	0.0	0 0	0.0
222	11/14/001	2 10:10				0.0	0.0	0 0	0.0	0.0	0.0
~~~	11/14/201.	3 16:12				0.0	0 Ô	0.0	0.0	0.0	0.0
224	11/14/2013	3 16:13				0.0	0.0	0.0	0.0	0.0	0.0
225	11/14/2013	3 16:15				0.0	0.0	0.0	0.0	0.0	0.0
226	11/14/2013	2 16.17				0.0	0.0	0.0	0.0	0 0	0 0
227	11/14/201	5 10:11				0.0	0.0	0 0	ů č	0.0	0.0
000	11/14/201.	2 10:18				0.0	<u>n</u> n	0.0	0.0	0.0	0.0
228	11/14/2013	3 16:20				0.0	0.0	0.0	0.0	0.0	0.0
229	11/14/2013	3 16:22				0.0	0.0	0.0	0.0	0.0	0.0
230	11/14/2013	16.22				0.0	0.0	0.0	0.0	0 0	0 0
231	11/14/2013	10.25		······································		0.0	0.0	0.0	0 0	0.0	0.0
222	11/14/2013	10:25	···· ··· ··· ···			0.0	0 0	0.0	0.0	0.0	0.0
232	11/14/2013	3 16:27	~ <b></b>			0 0	0. õ	0.0	0.0	0.0	0.0
233	11/14/2013	16:28				0.0	0.0	0.0	0.0	0.0	0.0
234	11/14/2013	16:30				0.0	0.0	0.0	0.0	0.0	0.0
235	11/14/2012	16.00				0.0	0.0	0.0	0.0	0.0	0.0
226	11/14/2010	10:32				0.0	0.0	0 0	ñŏ	0.0	0.0
230	11/14/2013	16:33				0.0	0 0	0.0	0.0	0.0	0.0
231	11/14/2013	16:35			****	0.0	0.0	0.0	0.0	0.0	0.0
238	11/14/2013	16:37				0.0	0.0	0.0	0.0	0.0	0.0
239	11/14/2013	16.38				0.0	0.0	0.0	0.0	0.0	0 0
240	11/1//2012	16.40				0.0	0.0	0.0	0 0	0.0	0.0
2/1	11/14/2013	10:40				0.0	0.0	0.0	0.0	0.0	0.0
241	11/14/2013	16:42				0 0	0 0	0.0	0.0	0.0	0.0
242	11/14/2013	16:43		·····		0.0	0.0	0.0	0.0	0.0	0.0
243	11/14/2013	16:45				0.0	0.0	0.0	0.0	0.0	0.0
244	11/14/2013	16.47				0.0	0.0	0.0	0.0	0.0	0 0
245	11/14/2010	10:47			·····	0.0	0.0	0.0	0 0	0.0	0.0
210	11/14/2013	16:48				0.0	0 0	0.0	0.0	0.0	0.0
240	11/14/2013	16:50				<u>^</u>	0.0	0.0	0.0	0.0	0.0
247	11/14/2013	16:52				0.0	0.0	0.0	0.0	0.0	0.0
248	11/14/2013	16.52	· · · · ·			0.0	0.0	0.0	0.0	0.0	0 0
240	11/14/2012	10,00				0.0	0.0	0.0	0 0	0.0	0.0
250	++/ +4/ 2V13	10:22				0.0	0 0	0 0	0.0	0.0	0.0
200	11/14/2013	16:57				<u>n</u> n	0.0	0.0	0.0	0.0	0.0
251	11/14/2013	16:58			-	0.0	0.0	0.0	0.0	0.0	0.0
252	11/14/2013	17:00				0.0	0.0	0.0	0.0	0.0	0 0
253	11/14/2012	17.00				0.0	0.0	0.0	0.0	0 0	0.0
254	11/11/0010	11				0.0	0.0	0 0	0.0	0.0	0.0
604 005	11/14/2013	17:03				0.0	0.0	0.0	0.0	0.0	0.0
255	11/14/2013	17:05				0.0	0.0	0.0	0.0	0.0	0.0
256	11/14/2013	17:07				0.0	0.0	0.0	0.0	0.0	0.0
						0.0	0.0	0.0	0.0	0.0	ñ ñ
										0.0	V.V



A TURNKEY Evenements Reconnentite
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# COMMUNITY AIR MONITORING DAILY LOG

Date:	11/15/13
Project:	Bus Park II Arsenic/Pb Hots
Job No.:	

pot Removal

Tecumseh Redevelopment Inc Client:

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch

on Attached Map):

	/200 P.M.	4/20/2	lev / sar		
SNS:	0730 A.M.	-10 T/2	~/ 52	20-25 Mart	annua - Mara - Annua -
WEATHER CONDITIC	Time of Day:	Ambient Air Temp.:	Wind Direction:	Wind Speed:	Precipitation:

10 12 -1401 SOD+ DESCRIPTION OF SITE ACTIVITIES: Stockpiling excavated soils for off-site disposal

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (End Controls/Mork Stonmage Arc.)
Exceedence of 100 ug/m3 ¹			10.00		
Exceedence of 150 ug/m3 ¹			2000		
Visual Observation of Fugitive Dust			NA		
			AN		
			AN		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm ¹			NONE		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm ¹			102E		Temporarily halt Work, abate emissions with corrective actions and continue monitoring 3
Exceedence of 25 ppm ²			みんわろ		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.

2. Above background at Site perimeter (indicate location on attached sketch)

3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Date: /////3	Date:
Gra	7
Prepared By:	Checked By:

			n	ov 15 ho [.]	t spot o	
Model Number".	"Dat	aram 4 "	. 106			
"Serial no. "	"D83	5 1	, 200			
"Device no "	1	5				
"Tag Numbor "	Êo					
"Stant Time "	00.1	3.34				
Start line ,	08:3	2:21				
"Start Date ",	12-N	ov-2013				
"Log Period ",	00:1	5:00				
"Number ",	8					
"CalFactor "	1.00	0000				
"Unit "	0					
"Unit Name ".	^й (ма	SS Jua/m	<b>3</b> 11			
"STZE CORRECT"	"ENA					
"TEMPLINITIS "	E 2017	OLLD				
"May MASS "	6 47	2504				
"May MACC @ "	4,4/	2294 10.17.21				
Max MASS ( ,	6	TO:T\:TT	,15-	Nov-2013		
AVY MASS ,	3.84	6743				
Max Diam	0.52	1140				
"Max Diam @ ",	7,	10:17:21	,15-	Nov-2013		
"Avg Diam ",	0.46	1393	•			
"ALÂRM ".	"DIS	ABLED"				
"ALARM LEVEL ".	0.0					
"AUTO ZERO "	"DTS					
"AZ INTERVAL "	1 1					
"Frrors "	กักกก					
record "(MARE )	0000					
	49/05	, remp,	RHumi	aity, Dia	ameter	
<u>,</u> ,	4. <u>1</u> ,	<u>61.0</u> ,	25,	0.3705	,08:47:21	,15-Nov-2013
<u>Z</u> ,	5.5,	54.5,	23,	0.4109	,09:02:21	15-Nov-2013
3,	3.6,	50.1,	25,	0.4820	.09:17:21	15-Nov-2013
4,	3.7,	48.3,	28	0.4852	09:32:21	15-Nov-2013
5, 5	3.7	48.5	29.	0.4705	09.47.21	15-Nov-2012
6.	3.9.	49.1.	30.	0 4827	10.02.21	15-Nov 2012
7. 2	4.5.	50.3	ãň'	0 5211	10.17.21	15 Nov 2013
8	3 9	50.9	20'	0 4685	10.22.21	15 Nov-2013
ζ,	,	5515,	23,	0.4002	,10:52:21	,13-NOV-2013

Instrument: MiniRAE 2000 User ID: PID 4 Data Points: 79 Last Calibration Time: 11 Start At: 11/15/2013 08:4	(PGM7600) Site ID: PID 4 Gas Name: Isobu /11/2013 12:13 0 End At: 11/15/20	Serial N 57 tylene Sample Pe 013 10:50	Number: 012790 eriod: 100 sec
Measurement Type: High Alarm Levels: Low Alarm Levels: STEL Alarm Levels: TWA Alarm Levels:	Min(ppm) 100.0 50.0 25.0 10.0	Avg(ppm) 100.0 50.0 25.0 10.0	Max(ppm) 100.0 50.0 25.0 10.0
Measurement Type: Peak Data Value: Min Data Value: TWA Data Value: AVG Data Value:	Min (ppm)	Avg (ppm) 0.0 0.0 0.0 0.0 0.0	Max(ppm) 0.2 0.0 0.0 0.0

Instrument: MiniRAE 2000 (PGM7600) User ID: PID 4 Site ID: PID 4 57 Data Points: 79 Gas Name: Isobutylend Data Points: 79 Gas Name: Isobutylene Last Calibration Time: 11/11/2013 12:13

Serial Number: 012790

Sample Period: 100 sec

$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Meas Alar Alar	urement Type m Type: m Levels:	2:	STEL 25.0	Min(pr TWA 10.0	om) AVG	STEL 25.0	Avg(ppm) TWA 10.0	AVG	STEL 25.0	Max(ppm) TWA 10.0	AVG
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				=====	Min(pp		=====	Avg(ppm)			Max(ppm)	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Line	# Date ====================================	e Time	STEL	TWA ======	AVG	STEL	TWA	AVG	STEL	 TWA	AVG
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1	11/15/2013	8 08:40				0.0	0.0	0.0	0.0	 0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3	11/15/2013	00.41				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4	11/15/2013	08:45				0.0	0.0	0.0	0.0	0.0	0.0
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	5	11/15/2013	08:46				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6	11/15/2013	08:48				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7	11/15/2013	08:50				0.0	0.0	0.0	0.0	0.0	0.1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	8	11/15/2013	08:51				0.0	0.0	0.0	0.0	0.0	0.0
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	9	11/15/2013	08:53				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10	11/15/2013	08:55				0.0	0.0	0.0	0.0	0.0	0.0
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	11	11/15/2013	08:56				0.0	0.0	0.0	0.0	0.0	0.0
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	12	11/15/2013	08:58				0.0	0.0	0.0	0.0	0.0	0.0
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	13	11/15/2013	09:00	<b>-</b>			0.0	0.0	0.0	0.0	0.0	0.0
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	14	11/15/2013	09:01				0.0	0.0	0.0	0.0	0.0	0.0
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	15	11/15/2013	09:03				0.0	0.0	0.0	0.0	0.0	0.0
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	16	11/15/2013	09:05				0.0	0.0	0.0	0.0	0.0	0.0
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	17	11/15/2013	09:06				0.0	0.0	0.0	0.0	0.0	0.0
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	18	11/15/2013	09:08				0.0	0.0	0.0	0.0	0.0	0.0
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	19	11/15/2013	09:10				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	20	11/15/2013	09:11				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	21	11/15/2013	09:13				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	22	11/15/2013	09:15				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	23	11/15/2013	09:16				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	24	11/15/2013	09:18				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	25	11/15/2013	09:20				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	20	11/15/2013	09:21				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	21	11/15/2013	09:23				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	20	11/15/2013	09:25				0.0	0.0	0.0	0.0	0.0	0.0
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	20	11/15/2013	09:20				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	30	11/15/2012	09:20				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	32	11/15/2013	09:30			~~~~	0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	33	11/15/2013	00.33				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	34	11/15/2013	09133				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	35	11/15/2013	09.35				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	36	11/15/2013	09.30				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	37	11/15/2013	09.00	<b></b>			0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	38	11/15/2013	09:41				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	39	11/15/2013	09:43				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	40	11/15/2013	09:45				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	41	11/15/2013	09:46				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	42	11/15/2013	09:48				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	43	11/15/2013	09:50				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	44	11/15/2013	09:51				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	45	11/15/2013	09:53				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	46	11/15/2013	09:55				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	47	11/15/2013	09:56				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	48	11/15/2013	09:58				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	49	11/15/2013	10:00				0.0	0.0	0.0	0.0	0.0	0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	50	11/15/2013	10:01				0.0	0.0	0.0	0.0	0.0	0.0
52       11/15/2013       10:05         0.0       0.0       0.0       0.0       0.0       0.0       0.0         53       11/15/2013       10:06         0.0       0.0       0.0       0.0       0.0       0.0         54       11/15/2013       10:08         0.0       0.0       0.0       0.0       0.0         55       11/15/2013       10:10         0.0       0.0       0.0       0.0       0.0         56       11/15/2013       10:11         0.0       0.0       0.0       0.0       0.0	51	11/15/2013	10:03				0.0	0.0	0.0	0.0	0.0	0.0
53       11/15/2013       10:06         0.0       0.0       0.0       0.0       0.0       0.0         54       11/15/2013       10:08         0.0       0.0       0.0       0.0       0.0       0.0         55       11/15/2013       10:10         0.0       0.0       0.0       0.0       0.0         56       11/15/2013       10:11         0.0       0.0       0.0       0.0       0.0	52	11/15/2013	10:05				0.0	0.0	0.0	0.0	0.0	0.0
54       11/15/2013       10:08        0.0       0.0       0.0       0.0       0.0       0.0         55       11/15/2013       10:10         0.0       0.0       0.0       0.0       0.0       0.0         56       11/15/2013       10:11         0.0       0.0       0.0       0.0       0.0	53	11/15/2013	10:06				0.0	0.0	0.0	0.0	0.0	0.0
55       11/15/2013       10:10         0.0       0.0       0.0       0.0       0.0         56       11/15/2013       10:11         0.0       0.0       0.0       0.0       0.0	54	11/15/2013	10:08				0.0	0.0	0.0	0.0	0.0	0.0
56 11/15/2013 10:11 0.0 0.0 0.0 0.0 0.0 0.0	55	11/15/2013	10:10				0.0	0.0	0.0	0.0	0.0	0.0
	56	11/15/2013	10:11	<b>-</b>			0.0	0.0	0.0	0.0	0.0	0.0

57	11/15/2012 10.1	2							
50	$\frac{11}{15}$	3		 0.0	0.0	0.0	0.0	0.0	0.0
50	11/15/2013 10:1	.5		 0.0	0.0	0.0	0.0	0.0	ñ ñ
59	11/15/2013 10:1	.6		 0.0	0.0	0.0	0 0	0.0	0.0
60	11/15/2013 10:1	.8 8.		 0.0	0.0	0.0	0.0	0.0	0.0
61	11/15/2013 10:2	:0		 0.0	0.0	0.0	0.0	0.0	0.0
62	11/15/2013 10:2	1		 0.0	0.0	0.0	0.0	0.0	0.0
63	11/15/2013 10:2	3		 0 0	0.0	0.0	0.0	0.0	0.0
64	11/15/2013 10:2	5		 0.0	0.0	0.0	0.0	0.0	0.0
65	11/15/2013 10:2	6		 0.0	0.0	0.0	0.0	0.0	0.0
66	11/15/2013 10:2	8		 0.0	0.0	0.0	0.0	0.0	0.0
67	11/15/2013 10:3	0		 0.0	0.0	0.0	0.0	0.0	0.0
68	11/15/2013 10:3	1		 0.0	0.0	0.0	0.0	0.0	0.0
69	11/15/2013 10.3	3		 0.0	0.0	0.0	0.0	0.0	0.0
70	$\frac{11}{15}$	5		 0.0	0.0	0.0	0.0	0.0	0.0
71	11/15/2013 10.3	6		 0.0	0.0	0.0	0.0	0.0	0.0
72	$\frac{11}{15}$	0		 0.0	0.0	0.0	0.0	0.0	0.0
72	$\frac{11}{15}$	8		 0.0	0.0	0.0	0.0	0.0	0.0
73	11/15/2013 10:4	0		 0.0	0.0	0.0	0.0	0.0	0.0
74	11/15/2013 10:4			 0.0	0.0	0,0	0.0	0.0	ñ ñ
15	11/15/2013 10:4	3		 0.0	0.0	0.0	0.0	ñ.ñ	0.0
/6	11/15/2013 10:4	5		 0.0	0.0	0.0	0.0	0.0	0.0
11	11/15/2013 10:4	6	<b>-</b>	 0.0	0.0	0.0	0.0	0.0	0.0
78	11/15/2013 10:4	8		 0.0	0.0	0.0	0.0	0.0	0.0
79	11/15/2013 10:5	0		 0.0	0.0	0.0	0.0	0.0	0.0
				÷.•	0.0	0.0	0.0	0.0	0.0





# **APPENDIX C**

DISPOSAL FACILITY APPROVALS





### CHAUTAUQUA COUNTY DEPARTMENT OF PUBLIC FACILITIES DIVISION OF SOLID WASTE

Gregory J. Edwards County Executive

George P. Spanos, P.E. Director of Public Facilities

July 16, 2013

Tecumseh Redevelopment Incorporated c/o Turnkey Environmental Restoration 2558 Hamburg Turnpike, Suite 300 Buffalo, New York 14218

Attention: Thomas Forbes

Reference: Special Waste Stream – Soil Permit: CC0715.13S1 [One Time Disposal Permit] Facility: **Tecumseh Redevelopment Phase II Business Park** 1951 Hamburg Turnpike, Lackawanna, NY 14218 Expiration Date: 12/31/13

Dear Mr. Forbes:

This department has reviewed Tecumseh's application for disposal of 600 tons of soil and slag with elevated arsenic. It is our understanding the waste is generated from excavation at the above referenced site. Based upon this information, this waste is acceptable for disposal at our Chautauqua County Landfill (CCLF) up to and including the above referenced date.

We have enclosed a copy of the executed NYSDEC application for your records. A copy of this correspondence must be presented to our scale operator with **EACH LOAD** of material entering our facility. It should be noted that your waste transporter must have an approved hauling permit for transport to this facility. In the event significant changes in information presented on the above referenced application occur, you shall immediately notify this department in writing. Such changes shall include but not be limited to: change in process, change in facility name or address, change in waste composition, and/or change in hauler.

Thank you for choosing our facility for your disposal needs. If you have any questions, please contact me (telephone extension 203).

Sincerely,

Tracy Pierce, "TJ" Solid Waste Analyst

**.** .

Enclosure

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cc: NYSDEC (Ltr, App. Frm); CCLF: Scale & A/R (Ltr); Permit-Generator Files (entire permit)

Office Use Only		
Bill to: 486	Generator: Tecumseh Redevelopment	Hauler: Zoladz [486]
Material: SOIL O	Origin: Erie County, NY	Site: 1951 Hamburg Turnpike, Lackawanna, NY 14218

I:\Everyone\SHARE\1 EMPLOYEE FLDRS\TJP\WASTE PERMITS\2013 Approval Ltrs\Special\Soil\TecumsehRedevelopment\CC0715.13S1 TecumsehRedevelopment Soil.doc

3889 TOWERVILLE RD., JAMESTOWN, NY 14701 · (716) 985-4785 · FAX (716) 985-4981 · E-MAIL: piercet@co.chautauqua.ny.us

## **APPENDIX D**

WASTE MANIFESTS



	218	S N									
	NON-HAZARDOUS WASTE MANIFEST 5. Generator's Name and Maili	1. Generator ID Number	2	. Page 1 of	3. Emergency Respor	nse Phone	4. Waste	Tracking Numb	er P	a ŝ k	
	Generator's Phone:	about The The				ess (ii dinerent t	nan maning add	ress)			
	6. Transporter 1 Company Nan Z. Transporter 2 Company Nan	Construction	COTIN	JCK	181		U.S. EPA ID	Number			
	8 Designated Easility Name or						U.S. EPA ID	Number 🖉			
	Chartong Ellen Di	a comp l	-an2(11				U.S. EPA ID	Number			
	9 Waste Shinning Name	and Description			10. Cor	ntainers	11. Total	12 Unit			
					No.	Туре	Quantity	Wt./Vol.			
ERATOR		4075.1351	EW		(	DT					
GEN	2.										
	3.										
	4.										
c	14. GENERATOR'S/OFFEROR' marked and labeled/placarde	S CERTIFICATION: I hereby declare that d, and are in all respects in proper condit	t the contents of this constitution for transport according	signment are g to applicab	fully and accurately de	escribed above t	by the proper sh	ipping name, an	d are classifie	ed, packag	ged,
V	Generator's/Offeror's Printed/Typ	bed Name	tor	Signa	ture	l			Month	Day	Year
INT'L	15. International Shipments Transporter Signature (for export	Import to U.S.	Ex	port from U.S	. Port of e	ntry/exit:	- And - Contraction		1 hours	7	15
TER	16. Transporter Acknowledgmen	t of Receipt of Materials		0.	Date ica	ving 0.0.					
TRANSPOR	Transporter 2 Printed/Typed Nan	<u>RUIE Sugg</u>		Signat	ure Chra	ılı-	195	(frontry)	Month	Day Day	Year Year
	17. Discrepancy										
	17a. Discrepancy Indication Space	Quantity	Туре		Residue	1	Partial Reje	ection	F	ull Reject	ion
- VILITY -	17b. Alternate Facility (or Genera	tor)			Manifest Reference	Number:	U.S. EPA ID N	Number			
D FAC	Facility's Phone:										
SNATE	Tro. Signature of Alternate Facilit	y (or Generator)							Month	Day	Year
- DESIG									<u> </u>		
V	18. Designated Facility Owner or Printed/Typed Name	Operator: Certification of receipt of mater	ials covered by the manif	est except as Signati	noted in Item 17a Ire				Month	Day	Year

1	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number		2. Page 1 of 3. Em 7/6	ergency Respor	nse Phone	4. Waste	Tracking Numb	per phase		136 5
	5. Generator's Name and Mailir	ng Address	w N/	Gener	ator's Site Addre	ess (if different	than mailing add	Iress)	1000		
	Lackour A	OF TORPITE	berry .								
	Generator's Phone:	7163 756- 0559									
	6. Transporter 1 Company Nam		/	summer i	ama		U.S. EPA ID	Number			
	7. Transporter 2 Company Nam	a constluct	ion Carlo	2. INTE	14		91	4499	7		
							U.S. EPA ID	Number			
	8. Designated Facility Name and	d Site Address	- cm J. ( 11				U.S. EPA ID	Number			
	Edla No										
	Facility's Phone:	6) 485-4758					1				
	9. Waste Shipping Name	and Description			10. Cor	ntainers	11. Total	12. Unit			
1	1 Non- Reg	while soil	IE//		110.	Туре	Quantity	VVI./ VOI.			
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ENE	2.	~ (71) - []	101								
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	3.										
	4.										
	13. Special Handling Instructions	and Additional Information									
	marked and labeled/placarded	G CERTIFICATION: I hereby declare d, and are in all respects in proper cc	that the contents of this ondition for transport acco	consignment are fully ar ording to applicable inter	d accurately de national and nat	scribed above tional governme	by the proper shi	ipping name, an	d are classif	ed, packa	iged,
	Generator's/Offeror's Printed/Typ	ed Name As As	an in	Signature	11h	and governme	sindi rogulations.		Month	Day	Year
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ŝ	16. Transporter Acknowledgment	of Receipt of Materials			Date leav	ving U.S.:		-6			-
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TRAI	mansponer 2 Printed/Typed Nam	e		Signature					Month	Day	Year
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<b>T</b> [	17a. Discrepancy Indication Space				1						
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	17h Alternate Facility (or Generat	orl		Mani	est Reference N	Number:					
							U.S. EPA ID N	lumber			
FAC	Facility's Phone:						I				
	17c. Signature of Alternate Facility	(or Generator)							Month	Dav	Year
GNP											
DESI											
ī											
	18. Designated Facility Owner or C	Operator: Certification of receipt of ma	aterials covered by the m	anifest except as noted	n Item 17a						
Ļ	Printed/Typed Name	5 ₄	1 m	Signature					Month	Day	Year

	NON-HAZARDOUS	1. Generator ID Number	2. Pa	ge 1 of 3. Emerg	ency Respor	ise Phone	4. Waste	Tracking Nu	mber Dia		6i ~ -
	5 Generator's Name and Mai			716	856-0	2539	Bis i	ARK	Hotspo-	- 1	
	Terman	Ing Audress	** K - 2	Generator	's Site Addre	ess (if different f	than mailing add	ress)			
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	Generator's Phone:	19218 211 XXX - 15544		1							
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	Edud 2	Construction	CONT	1 UCK#	224		9.	449	9		
	7. Transporter 2 Company Na	me					U.S. EPA ID	Number	/		
	8. Designated Facility Name a	nd Site Address									
	( NIL		and FI	1			U.S. EPA ID	Number			
	Ellery R.	A second second as	Salaran								
	Facility's Phone:	\$ 985-4250					1				
	9. Waste Shipping Nam	e and Description			10. Con	tainers	11 Total	12 Unit			
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	13. Special Handling Instruction	s and Additional Information									
-	14. GENERATOR'S/OFFEROR' marked and labeled/blacarde	'S CERTIFICATION: I hereby declare that the co	ontents of this consignm	ent are fully and a	ccurately des	scribed above b	v the proper shi	oping name,			
	Generator's/Offeror's Printed/Typ	ped Name	transport according to a	applicable internation	nol ond not		) breken ern		and are classified.	packaged	
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	Fa	acility's Phone:	CETT A Processing	158							
		9. Waste Shipping Name	and Description			10. Co	ontainers	11. Total	12. Unit		
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NON-HAZARDOUS	1. Generator ID Number		2. Page 1 of	3. Emergency Respo	nse Phone	4. Waste	Tracking Nu	mber	17
WASTE MANIFEST				716-856-6	599	Mar han	Edu du	- Martin	- Dente
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File	1= Constru	tion (	- Tr.	as the K	1-7	91			
7. Transporter 2 Company N	ame		1			U.S. EPA ID	) Number		
8. Designated Facility Name	(716) 185-47	Land 1	c //			U.S. EPA IC	) Number		4
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	NON-HAZARDOUS I. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste	Tracking Numb	er	Ŧ
	5. Generator's Name and Mailing Address		7.10.014			the met	
	and wanted and wante and wanting Address		Generator's Site Address (if differen	nt than mailing add	ress)	1	
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	6. Transporter 1 Company Name						
	or manoportor i company maine		• 85 V	U.S. EPA ID	Number		
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	Fadilities The States	Fig. 71 (1	15	1			
H	racinty's Phone:	- I WHISHES E	t-2. Q				
	9. Waste Shipping Name and Description	(7	lends) iners	11. Total	12. Unit		
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	<ol> <li>GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare tha marked and labeled/placarded, and are in all respects in proper condi-</li> </ol>	t the contents of this consignment are	fully and accurately described above	e by the proper shi	pping name, and		
0	Generator's/Offeror's Printed/Typed Name	tion for transport according to applicat	ble international and national governr	nontal regulations		l are classified, pac	kaged,
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	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response	Phone	4. Waste	Tracking Num	ber Plate	nt i	V
	5. Generator's Name and Mailin	ng Address	A very and ge	Generator's Site Address	(if different th	nan mailing add	ress)	C A	011	Partice
		Ellen Uxura, ON	Ville Kel							
	Generator's Phone:	6-256-0595								
	o. Hansporter i Company Nam	2.1.612 118	Ind Cr. Trucks	4121		U.S. EPA ID	Number	1-210	9	
	7. Transporter 2 Company Nam	e		() [		U.S. EPA ID	Number		1	
	8. Designated Facility Name and	d Site Address								
		e vite hutioss ( 1 Ale +	- Pering Kendler 14 Jay			U.S. EPA ID	Number			
	Facility's Phone:	1.6.115 4/79	58							
	9. Waste Shipping Name	and Description		10. Contair No.	ners Type	11. Total Quantity	12. Unit Wt./Vol.			
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	14. GENERATOR'S/OFFEROR'S marked and labeled/placarde	5 CERTIFICATION: I hereby declare the d, and are in all respects in proper conc	at the contents of this consignment are lition for transport according to applicab	fully and accurately descri le international and nation	ibed above b al governme	by the proper sh ental regulations	ipping name, a	ind are classifie	ed, packa	ged,
	Generator's/Offeror's Printed/Typ	ed Name	Signa	ture	1.10	12		Month	Day	Year
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	17c. Signature of Alternate Facility	/ (or Generator)				I		Month	Day	Year
AND										
	18. Designated Facility Owner or (	Operator: Certification of receipt of mate	erials covered by the manifest except as	noted in Item 17a						
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4	NON-HAZARDOUS	1. Generator ID Number		2. Page 1 of 3. I	Emergency Respo	nse Phone	4. Waste	Tracking Num	nber		
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		ing Address	642	Ger	erator's Site Addr	ess (if different	han mailing add	lress)	1		-
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	Generator's Phone:	WY 4215		1							
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	7. Transporter 2 Company Nan	ne					U.S. EPA ID	Number		/	
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	EPAL N	14 14/70/									
	Facility's Phone:	- CAS- 4175 R					1				
	9. Waste Shipping Name	e and Description			10. Cor	ntainers	11. Total	12. Unit			
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	14. GENERATOR'S/OFFEROR'S	S CERTIFICATION: I hereby declare t	hat the contents of this cor	signment are fully	and accurately de	scribed above b	y the proper shi	pping name, a	ind are classif	ied packa	Inded
	Generator's/Offeror's Printed/Typ	ed, and are in all respects in proper cor	idition for transport accordi	ng to applicable in	ternational and na	tional governme	ntal regulations.			iou, puone	igou,
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WASTE MANIFEST		2.1 490 1 0	5. Emergency Respo	IISE FIIONE	4. Waste	Tracking N	umber	
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Terumien i	Revelues, and me		Generator's Site Addr	ress (if different	t than mailing ad	dress)		1000
2538 Kribu	g Tree, WC							
Generator's Phone:	NY 141218							
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0 Designation I Franking								
8. Designated Facility Name and	d Site Address	a that the	1		U.S. EPA I	0 Number		
	Eller, K	NY CORDENT	- († 11) 1					
Facilitada Di		- CA 13131			15			
Facility's Phone: 710	455-4758							
9. Waste Shipping Name	and Description		10. Cor	ntainers	11. Total	12. Unit		
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17	7. Dis 7a. D ′b. Al	screpancy iscrepancy Indication Space ternate Facility (or Generator	Quantity	Туре	Signature	Residue	umber:	Partial Rejec	tion	Month	Day Day	Year Year
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NON-HAZARDOUS 1. G WASTE MANIFEST	Generator ID Number	2. Page 1 of	3. Emergency Respo	onse Phone	4. Waste	Tracking Nu	mber
5. Generator's Name and Mailing Ad	dress	Calm 18	Gonoratoria Site Add	6 2 354	5 P.M	YI BP	MAJO N
Generator's Phone:	2737232 3.66699	The second second	Generator's Site Add	ress (if different	than mailing ad	dress)	
Transporter 1 Company Name	to the Conso	with CB, True	K #171		U.S. EPA I	D Number	ANGE
7. Transporter 2 Company Name					U.S. EPA II	D Number	
8. Designated Facility Name and Site	Address Charles Construction	n Cearty Lendti Y 241701	/		U.S. EPA I	D Number	
Facility's Phone:	955-4758	2					
9. Waste Shipping Name and I	Description		10. Cor No.	ntainers Type	11. Total Quantity	12. Unit Wt./Vol.	
	715-1851		and the second s	and a second			
2.	1 million for the second of						
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14. GENERATOR'S/OFFEROR'S CER marked and labeled/placarded, and Generator's/Offeror's Printed/Typed Nar	TIFICATION: I hereby declare the are in all respects in proper con ne	hat the contents of this consignment are dition for transport according to applicab	fully and accurately dea le international and nati	scribed above b ional governme	y the proper shi ntal regulations.	pping name, a	nd are classified, packaged,
15. International Shinments	segnitival	Signa	lure	111.	Pr. 1		Month Day Year
Transporter Signature (for exports only):	Import to U.S.	Export from U.S	. Port of en Date leav	try/exit:			
Transporter 1 Printed/Typed Name	eipt of Materials		J				
Transporter 2 Printed/Typod Name	Acardian	Signat		an tradition and the first state of the	and the second second		Month Day Year
		Signat	ure				Month Day Year
17. Discrepancy							
	Quantity	П Туре	Residue	[	Partial Reject	ction	Full Rejection
17b. Alternate Facility (or Generator)			Manifest Reference N	umber:	U.S. EPA ID Nu	umber	
Facility's Phone:				Т			
17c. Signature of Alternate Facility (or Gen	nerator)						Month Day Year
18. Designated Facility Owner or Operator Printed/Typed Name	: Certification of receipt of mate	rials covered by the manifest except as	noted in Item 17a				
21		Signatur	re				Month Day Year

NON-HAZARDOUS	1. Generator ID Number		2. Page 1 of	3. Emergency F	C-0355	none	Part	Hotsf	+0		
WASTE MANIFEST				Generator's Site	e Address (i	if different that	n mailing addres	s)			
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enerator's Phone:		1 .					U.S. EPAIDI	A UGG	i.		
Transporter 1 Company N	ame Construction (	Co T	ruck 2	- 44			US EPAID	Number			
Z d d d t	ame	1									
Transporter 2 company re					rd		U.S. EPA ID	Number			
Designated Facility Name	and Site Address	1611		I V	1 3						
Charting.	in County Love	sc A 4									
Ellerit	VA (716) 985-4	758									-
acility's Phone:					10. Conta	ainers	11. Total	12. Unit			
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	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2.	Page 1 of	3. Emergency Response	Phone	4. Waste T	racking Numb	per Plans 1	1	2
	5. Generator's Name and Mailin	I ng Address			Generator's Site Address	s (if different t	han mailing addr	ess)	e e e e e e e e e e e e e e e e e e e	Support of the	
	Generator's Phone:	align pussion the		99							
	6. Transporter 1 Company Nan		Can tax	, >.	47		U.S. EPA ID	Number T A	499		
	7. Transporter 2 Company Nan	ne	01110	B_ loger	9 Romany		U.S. EPA ID	Number			
	8. Designated Facility Name an	d Site Address					U.S. EPA ID	Number			
	Chaterie C	0.45									
	Facility's Phone: 71	0-5155-21758	>								
	9. Waste Shipping Name	e and Description			10. Conta No.	ainers Type	11. Total Quantity	12. Unit Wt./Vol.			
OR	1. Non	-loiulated so	11/21/		)	A manual					
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	13. Special Handling Instruction	ns and Additional Information			I						
	14. GENERATOR'S/OFFEROR	"S CERTIFICATION: I hereby declare	that the contents of this cor	nsignment a	re fully and accurately des	scribed above	by the proper sl	nipping name, a	and are classified	d, packag	ed,
	Generator's/Offeror's Printed/Ty	/ped Name		Sig	nature	5			Month	Day	Year
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NT'L	15. International Shipments	Import to U.S.	E	xport from l	J.S. Port of er	ntry/exit:					
8	Transporter Signature (for expo	rts only): nt of Receipt of Materials			Date leav	ing U.S.:					
ORTEI	Transporter 1 Printed/Typed Na	me		Sig	nature				Month	Day	Year
<b>TRANSP</b>	Transporter 2 Printed/Typed Na	me		 Sig	nature				Month	Day	Year
	17. Discrepancy	,									
	17a. Discrepancy Indication Spa	ace Quantity	Туре		Residue		Partial Re	ejection	F	ull Reject	ion
L F	17b. Alternate Facility (or Gener	rator)			Manifest Reference I	Number:	U.S. EPA ID	Number			
FACIL	Facility's Phone:										
NATEC	17c. Signature of Alternate Faci	lity (or Generator)							Month	Day	Year
- DESIG											
	18. Designated Facility Owner of Printed/Typed Name	or Operator: Certification of receipt of n	naterials covered by the ma	nifest excep Sig	t as noted in Item 17a nature				Month	Day	Year
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	WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response	Phone	4. Waste I	racking Num	ber	1	
	5. Generator's Name and Mailin	ng Address		Generator's Site Address	(if different th	an mailing addr	ess)			
	7.5 Innte	The Le	1							
	Generator's Phone:	Lora (18.7 at at Kart)				U.S. EPA ID	Number		l	
	6. Transporter T Company Nan		and the			1	C	A-LKGG	r	
	7. Transporter 2 Company Nan	ne				U.S. EPA ID	Number			
							Number			
	8. Designated Facility Name ar	nd Site Address				U.S. EPA ID	Number			
	Facility's Phone:									
	9. Waste Shipping Nam	e and Description		10. Conta No.	ainers Type	11. Total Quantity	12. Unit Wt./Vol.			
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	13. Special Handling Instruction	ns and Additional Information								
	14. GENERATOR'S/OFFERO	R'S CERTIFICATION: I hereby declare that the co	pontents of this consignment	are fully and accurately de	scribed above	by the proper s	shipping name	e, and are classifie	ed, packaç	ged,
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	NON-HAZARDOUS	1. Generator ID Number	2. Page 1 of	3. Emergency Respons	e Phone	4. Waste T	racking Num	iber photo	1 9	0
	5. Generator's Name and Maili	ng Address		Generator's Site Addres	s (if different t	nan mailing addr	ess)	7		
	TRUMPSA	ZERRING RACH, INC.								
	Lockasteria	NY HZIE	1							
	Generator's Phone:	16-836-0514					Number			
	6. Transporter 1 Company Nar	ne « Crostanelana i	no. Trucketter 11	1-7				A.499		
	7. Transporter 2 Company Nar	ne	ter i section part	/ /		U.S. EPA ID	Number			
	a sumple and the first sector of the first sec									
	8. Designated Facility Name and	nd Site Address				U.S. EPA ID	Number			
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	Enry NY	nd and the second				T				
	Facility's Phone: 116	125-4750		10. Con	tainers	11 Total	12 Unit			
	9. Waste Shipping Nam	ne and Description		No.	Туре	Quantity	Wt./Vol.			
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	13. Special Handling Instruction	ons and Additional Information								
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	Generator's/Offeror's Printed/	Typed Name	Si	gnature	- Disameter Barren - M.			Month	Day	Year
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	17. Discrepancy									
	Tra. Discrepancy maloalion o	Quantity	Туре	Residue		Partial R	ejection		Full Reject	tion
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Ľ	17b. Alternate Facility (or Gen	erator)				U.S. EPA II	O Number			
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D FA	Facility's Phone:	1114 / O						Month	Dav	Year
ATEI	1/c. Signature of Alternate Fa	icility (or Generator)	1							
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	18. Designated Facility Owner	r or Operator: Certification of receipt of I	materials covered by the manifest exce	pt as noted in Item 17a				64	Devi	V
	Printed/Typed Name		Si	ignature				Month I	Day	Year
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	NON-HAZARDOUS	1. Generator ID Number	2. Page 1 of	3. Emergency Response	Phone	4. Waste 1	Fracking Numb	ber	r L	السابون ا
	5. Generator's Name and Mailir	ng Address		Generator's Site Address	(if different the	n mailing add	rocc)	Speed the	int	0
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	Generator's Phone:	11 J N 8 14 2 133	T							
	6. Transporter 1 Company Nam	e	,			U.S. EPA ID	Number			
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	7. Transporter 2 Company Nam	е				U.S. EPA ID	Number			
	0. Designated Excility N									
	8. Designated Facility Name and	d Site Address				U.S. EPA ID	Number			
	Eller NY	CCA MAT.								
	Facility's Phone:	ARE 47 TR				l l				
				10. Conta	iners	11 Total	12 Unit			
	9. Waste Shipping Name	and Description		No.	Туре	Quantity	Wt./Vol.			
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	13 Special Handling Instructions	and Additional Information								
	14. GENERATOR'S/OFFEROR'	S CERTIFICATION: I hereby declare that the conter	nts of this consignment are	e fully and accurately desc	cribed above by	/ the proper sh	nipping name, a	and are classifie	d, packag	ied,
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7	15. International Shipments	Sall SOF TOP UMARK		- C. C. Marine	1 A.C	CAL.		1 Gum	600	1.5
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ŝ	16. Transporter Acknowledgmen	t of Receipt of Materials			ig 0.0					
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	17. Discrepancy					_				6
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≥	17b. Alternate Facility (or Genera	itor)		Manifest Reference N	umber:	U.S. EPA ID	Number			
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FAC	Facility's Phone:									
	17c. Signature of Alternate Facili	ty (or Generator)						Month	Day	Year
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	18 Decignated Eacility Owner an	Operator: Cortification of respired of materials	d by the menifest and t	an potent in them 17						
	Printed/Typed Name	operator. Certification of receipt of materials COVere	u by the mannest except s	as noted in item 1/a				Month	Dav	Year
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<i>a</i>										

NAN HARADDAHA	1. Generator ID Number	2. Page 1 of	3. Emergency Response	Phone	4. Waste Tr	acking Number	ANNI TT	BP	
NON-HAZARDOUS			111-53-6-0	599		i.h.	al sound	6	
5 Generator's Name and Mai	lling Address		Generator's Site Address	(if different th	an mailing addre	ess)			
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8. Designated Facility Name	and Site Address				U.S. EPA ID	Number			
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Facility's Phone:	10-48-5- m175 5		10. Cont	ainers	11. Total	12. Unit		E	~
9. Waste Shipping Na	ame and Description		No	Type	Quantity	Wt./Vol.		1	
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15. International Shipments	s Import to U.S.	Export fro	m U.S. Port of	entry/exit:					
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17. Discrepancy									
17a. Discrepancy Indicatio	n Space Quantity	Туре	Residue		Partial	Rejection	L F	-ull Rejecti	ion
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17b. Alternate Facility (or	Generator)				U.S. EPA	ID Number			
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Facility's Phone:	e Eacility (or Generator)						Month	Day	Yea
170. Signature of Alternate	or admity for denotatory	I							
18. Designated Facility O	wner or Operator: Certification of receipt of ma	terials covered by the manifest e	xcept as noted in Item 17a				Month	Dav	Ve
Printed/Typed Name			Signature				WORT	Day	100
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									ructions and Additional Information	3. 4. 13. Special Handling Instr
# **APPENDIX E**

## SCALE RECEIPTS



	KATE HILL 601425	V TIME OUT VEHICLE ROLL OFF	56 08:56 ZC148 OBIGIN	ERIE COUNTY (NY)	Charge ticket	TENSION FEE TOTAL	-	NE AMOUNT TENDERED	CHANGE CHECK NO.	
SITE TICKET (SHI	02 117057 9		12/06/13 12/06/13 08:5 REFERENCE	07151351	LB LB LB	A RATE EXT	2	thru Friday. 5 contain any 1ids of any	tone (716) 985-4785	
CHAUTAUQUA COUNTY L'ANDETTT	3889 Towerville Road	Jauestown, New York 14701	000486 ZOLADZ CONSTRUCTION COMPANY 13600 RAILROAD STREFT	ALDEN NY 14004	Scale I Gross Wt. 75380 Stored Tare Wt. 27940 Net Weight 47440	OESCRIPTION	23.72 TON Soil Contam OutC	Operating hours 7:30 AM to 3:30 PM Monday This is to certify that this load does not hazardous materials, medical waste or ligu	Cype. Driver MIKE Generator TECUMSEH PHASE II Comment LACKAWANNA, NY 14218 Hauler: INDEPENDENT HAULER	VW6[1] TO PEOPORP CONTACT CAPOLINA SCIENCE ADDIANCE CONTRACTOR

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(stra 02 12/05/1 885		Friday. tain any of any (716) 985-
NDFILL 14701 RUCTION COMPANY AD STREET	Gross Wt. 72380 LB are Wt. 28440 LB it 43940 LB	Soil Contam OutCo Soil Contam OutCo M to 3:30 PM Monday thru at this load does not con redical waste or liquids Telephone Telephone MNA, NY 14218 Telephone Telephone Telephone
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CHAUTA 3889 Tr Jamestr 000486			22.7		Operatir This is hazardou type.	Driver Generato Comment ''

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P		ILL 601425	ROLL OFF				TOTAL		NET AMOUNT	TENDERED			CHECK NO.
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	CHAUTAUQUA COUNTY LANDFILL	3889 Towerville Road	Jamestown, New York 14701	000486 ZOLADZ CONSTRUCTION COMPANY 13600 RAILROAD STREET ALDEN NY 14004		Scale 1 Gross Wt. 74480 LB Stored Tare Wt. 29080 LB Net Weight 45400 LB	QTY. UNIT DESCRIPTION	22.70 TON Soil Contam OutCo	This is to certify that this load does not contain	hazardous materials, medical waste or liquids of a type.	Driver DOUG (71	Generator TECUMSEH PHASE III Comment LACKAWANNA, NY 14218	Hauler: INDEPENDENT HAULER wweti to reorder contact carolina software (910) 799-6767 Signature

19 9 KATE HILL 601425 MATE OUT TIME IN TIME OUT VEHICLE ROLL OFF MO5/13 13:53 13:53 ZC148 CE 0PIGN	Inbound - Charge ticket	RATE EXTENSION FEE TOTAL	NET AMOUNT CHECK NO
CHAUTAUQUA COUNTY LANDFILL 3889 Towerville Road Jamestown, New York 14701 000486 ZOLADZ CONSTRUCTION COMPANY 13600 RAILROAD STREET ALDEN NY 14004 071513	Scale 1 Gross Wt. 70660 LB Stored Tare Wt. 27940 LB Net Weight 42720 LB	DESCRIPTION	21.36 TON Soil Contam OutCo 21.36 TON Soil Contam OutCo Operating hours 7:30 AM to 3:30 FM Monday thru Friday. This is to certify that this load does not contain any type. Triver MIKE Teclomset PHASE III Driver MIKE TECOMSEH FHASE III Comment LACXAMANNA, NY 14218 Telephone (716) 985-478 Telephone (716) 985-478

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r CHARLIE ator CHARLIE ator TECUMSEH PHASE III 1t LACKAWANNA, NY 14218	L6) 985-4785			CHANGE CHECK NO.
TO REORDER CONTACT CAROLINA SOFTWARE (910) 799-6767 SIGNATU	RF			

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	2058 9 CHI KATE HILL	DATE OUT TIME IN TIME OUT VEHICLE	12/06/13 08:57 08:57 ZC242 ENCE ORIGIN ORIGIN 3S1 ERLE COUNTY (NY)	Inbound - Charge ticket	RATE EXTENSION FEE			\$ 2 2
	CHAUTAUQUA COUNTY LANDFILL 3889 Towerville Road	Jamestown, New York 14701	000486 ZOLADZ CONSTRUCTION COMPANY 13600 RAILROAD STREET ALDEN NY 14004 071513	Scale I Gross Wt. 72880 LB Stored Tare Wt. 29260 LB Net Weight 43620 LB	UIY. UNIT DESCRIPTION	21.81 TON Soil Contam OutCo	Operating hours 7:30 AM to 3:30 PM Monday thru Friday. This is to certify that this load does not contain any harardone meterics	water unus materials, medical waste or liquids of any type.Telephone (716) 985-476DriverMICHELLETelephone (716) 985-476DriverMICHELLETelephone (716) 985-476GeneratorTECUMSEH PHASE IICommentGeneratorTECUMSEH PHASE IICommentCommentLACKAWANNA, NY 14218MUGTI TO REORDER CONTACT CAROLIAN SOFTWARE (910) 799-6767WWGTI TO REORDER CONTACT CAROLIAN SOFTWARE (910) 799-6767SIGNATURE

ROLL OFF NET AMOUNT TENDERED CHECK NO. TOTAL CHANGE 601425 KATE HILL VEHICLE ERIE COUNTY (NY) ORIGIN ZC181 Inbound - Charge ticket TIME IN TIME OUT 08:55 EXTENSION 81 12/06/13 12/06/13 08:55 ማ DATE OUT RATE 117056 REFERENCE 071513S1 IX P.C. Telephone (716) 985-4785 DATE IN This is to certify that this load does not contain any Operating hours 7:30 AM to 3:30 PM Monday thru Friday. SHL: 02 hazardous materials, medical waste or liquids of any SIGNATURE. ዋ LB LB DESCRIPTION Outco WW6T1 TO REORDER CONTACT CAROLINA SOFTWARE (910) 799-6767 70400 27440 42960 ZOLADZ CONSTRUCTION COMPANY LACKAWANNA, NY 14218 Soil Contam TECUMSEH PHASE II 13600 RAILROAD STREET Scale 1 Gross Wt Stored Tare Wt. CHAUTAUQUA COUNTY LANDFILL Jamestown, New York 14701 Net Weight ALDEN NY 14004 CHARL IE 3889 Towerville Road NOL UNIT 21.48 0 Y Generator 000486 Comment Driver TT....T. type.

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bite 1. 02 1. DATE IN	12/06/13 Refe	0715				riday. in any any te ooe u	# 1 7 9 1 7 9 1 7 9 1 7 9 1 7 9 1 7 9 1 7 9 1 7 9	RE
HAUTAUQUA COUNTY LANDFILL 1889 Towerville Road amestown, New York 14701	00486 ZOLADZ CONSTRUCTION COMPANY 13600 RAILROAD STREET ALDEN NY 14004		Scale 1 Gross Wt. 72460 LB Stored Tare Wt. 27720 LB Net Weight 44740 LB	23.37 DESCRIPTION	Outco	is is to certify that this load does not contaced does not contaced does not contaced does not contaced as materials, medical waste or liquids of the totomake and the set of th	.Vor DENNIS lerator TECUMSEH PHASE II	TI TO REORDER CONTACT CAROLINA SOFTWARE (910) 799-6767 SIGNATU

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New York 14701	DATE IN DATE OUT	TIME IN TIME OUT	VEHICLE	ROLL OFF
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DEN NY 14004	071513S1	ERIE COI	UNTY (NY)	
Scale 1 Gross Wt. 71680 LB Stored Tare Wt. 27440 LB Net Weight 44240 LB	Inbo	und - Charge t	icket	
UNIT DESCRIPTION	RATE	EXTENSION	EEE	
TON Soil Contam OutCo				
lours 7:30 AM to 3:30 PM Monday thru ] certify that this load does not conta naterials, medical waste or liquids of	riday. in any any			NET AMOUNT TENDERED
Telephone (7 CHARLIE	16) 985-4785			CHANGE
TECUMSEH PHASE II LACKAMANNA, NY 14218 TATATATATATATA 114218 ER CONTACT CAROLINA SOFTWARE (910) 799-6767 SIGNATUI	Ш	•		CHECK NO.

DAVE FERRUGIA VEHICLE ROLLOFF ZC242 Oficin	ket	TOTAL	NET AMOUNT TENDERED CHANGE CHECK NO.
9 71ME IN TIME OUT 3 12:37 12:37 ERTE COINT	nd - Charge tic	EXTENSION	
Suff RCKET 02 117234 DATE IN DATE OUT 12/09/13 12/09/13 REFERENCE 071513S1	Inodnl	RAFE	iday. n any any 5) 985-4785
JQUA COUNTY LANDFILL Werville Road Wh, New York 14701 ZOLADZ CONSTRUCTION COMPANY 13600 RAILROAD STREET ALDEN NY 14004	Scale 1 Gross Wt. 72040 LB Stored Tare Wt. 29260 LB Net Weight 42780 LB	TON Soil Contam OutCo	g hours 7:30 AM to 3:30 PM Monday thru Fr to certify that this load does not contai s materials, medical waste or liquids of Telephone (71 MICHELLE MICHELLE TECUMSEH PHASE II TACKAWANNA, NY 14218 ************************************

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ANDFILL d 14701 TRUCTION COMPANY OAD STREET 004	Gross Wt. 73520 LB Tare Wt. 27440 LB ght 46080 LB	N Soil Contam OutCo	AM to 3:30 PM Monday thru Fr hat this load does not contai medical waste or liquids of Telephone (71 IE SEH PHASE II VANNA, NY 14218
CHAUTAUQUA COUNTY L 3889 Towerville Road Jamestown, New York 000486 ZOLADZ CONST 13600 RAILRC ALDEN NY 140	Scale 1 Stored 7 Net Weig	23.04 UNIT 23.04 TON	Operating hours 7:30 This is to certify th hazardous materials, type. Driver CHARLI Generator TECUMS Comment LACKAW

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AVE FERRUGIA	VEHICLE   ROLL OFF	C242	ORIGIN	Y (NY)	et		TOTAL	NET AMOUNT	TENDERED	CHANGE CHECK NO	
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CHAUTAUQUA COUNTY LANDFILL 3889 Towerville Road	Jamestown, New York 14701	000486 ZOLADZ CONSTRUCTION COMPANY	13600 RAILROAD STREET	ALDEN NY 14004	Scale 1 Gross Wt. 74160 LB Stored Tare Wt. 29260 LB Net Weight 44900 LB	CTY. UNIT DESCRIPTION	22.45 TON Soil Contam OutCo	Uperating hours 7:30 AM to 3:30 PM Monday thru Fr This is to certify that this load does not contain hazardous materials medical wasto on the	type. Telephone (716 Driver Master of 16	Generator TECUMSEH PHASE II Comment LACKAWANNA, NY 14218	WW6T1 TO REORDER CONTACT CAROLINA SOFTWARE (910) 799-6767 SIGNATURI

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RRUGIA			TOTAL		NET AMOUNT TENDERED	CHANGE CHECK NO.
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o 2 DATE IN	12/09/	T .			Friday. ain any f any	716) 985- URE
COUNTY LANDFILL ille Road New York 14701	ADZ CONSTRUCTION COMPANY )0 RAILROAD STREET 2N NY 14004	Scale 1 Gross Wt. 73860 LB Stored Tare Wt. 28080 LB Net Weight 45780 LB	UNIT DESCRIPTION	TON Soil Contam OutCo	rrs 7:30 AM to 3:30 PM Monday thru rtify that this load does not cont erials, medical waste or liquids o	ART TECUMSEH PHASE II TECUMSEH PHASE II LACKAWANNA, NY 14218 TAUTHATATA 1111 100 CONTACT CAROLINA SOFTWARE (910) 799-6767 SIGNAT
CHAUTAUQUA 3889 Towerv. Jamestown, N	000486 ZOLA 136( ALDE			л 9 7 7	Operating hou This is to ce hazardous mat tvpe.	Driver Generator Comment WW6TI TO REORDER

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ILL 601425 E ROLLOFF		TOTAL	NET AMOUNT TENDERED CHANGE CHANGE
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AUQUA COUNTY LANDFILL Fowerville Road town, New York 14701 5 ZOLADZ CONSTRUCTION COMPANY 13600 RAILROAD STREET ALDEN NY 14004 0	Scale 1 Gross Wt. 72600 LB Stored Tare Wt. 27440 LB Net Weight 45160 LB	58 TON Soil Contam OutCo	Ing hours 7:30 AM to 3:30 PM Monday thru Friday. s to certify that this load does not contain any bus materials, medical waste or liquids of any Telephone (716) 98 CHARLIE CHARLIE TECUMSEH PHASE II Telephone (716) 98 CHARLIE TECUMSEH PHASE II Telephone (716) 98 Telephone (716) 9

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	LL 601425	ROLL OFF							TENDERED		CHANGE	CHECK NO.	
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278 - 877 -		TIME IN TIME OUT	08:53 08:53		ERIE COU	1 - Charge ti	EXTENSION						
11011	117055 9	N DATE OUT	/13 12/06/13	IEFERENCE	71513S1	Inbounc	RATE			5-4785			
1748.	ILL 02	01 DATE	TION COMPANY	STREET	.0	ss Wt. 73160 LB Wt. 29080 LB 44080 LB	DESCRIPTION	oil Contam OutCo	to 3:30 PM Monday thru Friday. this load does not contain any ical waste or liquids of any	Telephone (716) 98	PHASE II	A, NY 14218 ۲۰۰۰ ۱۱۱٬۱۰۰ ۲۰۰۰	A SUFTWARE (010) 700-6767 SIGNATURE
	CHAUTAUQUA COUNTY LANDF 3889 Towerville Road	Jamestown, New York 147	000486 ZOLADZ CONSTRUC	13600 RAILROAD	ALDEN NY 14004	Scale 1 Gro Stored Tare Net Weight			This is to certify that hazardous materials, medi-	Driver CLARENCE	Generator TECUMSEH I	Comment LACKAWANN2	או איז

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	KATE HILL 601425	VEHICLE ROLLOFF	ZC244	ÓRIGIN	NTY (NY)	cket			NET AMOUNT			CHECK NO.	
CARS.		TIME IN TIME OUT	11:49 11:49		ERIE COU	- Charge ti	EXTENSION						
TICICE	9 660211	E IN DATE OUT	6/13 12/06/13 1	REFERENCE	071513S1	Inbound	RATE		·······································	85-4785			
CHAUTAUQUA COUNTY LANDFILL	3889 Towerville Road	Jamestown, New York 14701	000486 ZOLADZ CONSTRUCTION COMPANY	13600 RAILROAD STREET	ALDEN NY 14004	Scale 1 Gross Wt. 72820 LB Stored Tare Wt. 29080 LB Net Weight 43740 LB	OTY. UNIT DESCRIPTION	21.87 TON Soil Contam OutCo	Operating hours 7:30 AM to 3:30 PM Monday thru Friday This is to certify that this load does not contain an hazardous materials, medical waste or liquids of any	Uriver CLARENCE Telephone (716) 9	Generator TECUMSEH PHASE II	Comment LACKAWANNA, NY 14218	WW6T1 TO REORDER CONTACT CAROLINA SOFTWARE (910) 799-6767 SIGNATURE

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CHAULAUVUA COC 3889 Towervill	NTY LAN e Road	DFILL	02 11	7120 9	_	- <b>.</b>	KATE HILL	601425
Jamestown, New	York 1	4701	DATE IN	DATE OUT	TIME IN TIN		VEHICLE	ROLL OFF
000486 ZOLADZ	CONSTRI	UCTION COMPANY	12/06/13	12/06/13	12:55 12	: 55	ZC171	
ALDEN J	RAILROAI NY 14004	D STREET		RENCE			ORIGIN	
			07151	3S1	ERII	E COUN	(XN) XI	-
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ατν.	UNIT	DESCRIPTION		C) ATC			1	Y
21.87	TON	Soil Contam OutCo				2		
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This is to cert	ify that	t this load does not conta	'riday. in anv					NET AMOUNT
hazardous mater	ials, m£	edical waste or liquids of	any any					TENDERED
briver	ART	Telephone [7]	16) 985-47	785				CHANGE
Generator	TECUMSEH	I PHASE II					<u> </u>	
Comment I	LACKAWAN Namenan	NA, NY 14218 ממאדר ייווד בה						CHECK NO.
WW6FI TO REORDER CO.	NTACT CARO	DLINA SOFTWARE (910) 799-6767 SIGNATU	JRE					

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	KATE HILL 601425	VEHICLE ROLL OFF	ZC242 Origin	TY (NY)	ket			NEL AMOUNT TENDERED	CHANGE	CHECK NO.	
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SAE 14 GF	02 117104	DATE IN DATE OUT	12/06/13 12/06/13 Reference	071513S1	Inbour	PATE		rriday. Nin any any	16) 985-4785		
	NTY LANDFILL e Road	York 14701	CONSTRUCTION COMPANY RAILROAD STREFT	NY 14004	ale 1 Gross Wt. 72120 LB ored Tare Wt. 29260 LB t Weight 42860 LB	UNIT DESCRIPTION	TON Soil Contam OutCo	7:30 AM to 3:30 PM Monday thru F ify that this load does not conta ials, medical waste or liquids of	() (ICHELE	ACKAWANNA, NY 14218 ACKAWANNA, NY 14218 Ammananana amman	
	umaulaugua COU 3889 Towervill∈	Jamestown, New	000486 ZOLADZ 13600 F	ALDEN N	Sci Sto Net	ατγ.	21,43	Operating hours This is to certi hazardous materi type.	Driver Geberator T	Comment L	

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é terret de la Lite	HILL 601425	ILE ROLL OFF						TENDERED CHANGE CHECK NO.
	KATE	VEHIC	ZC147 ORIGI	N) ALM	i cket	EEE		
X1.2	7117 9	DATE OUT TIME IN TIME OUT	12/06/13 12:46 12:46	3S1 ERIE COL	Inbound - Charge ti	RATE EXTENSION		Ω
	02 11	DATE IN	12/06/13 Refer	07151				Eriday. ain any f any 16) 985-47 JRE
	ANDFILL	c 14701	STRUCTION COMPANY COAD STREET	004	Gross Wt. 68840 LB Tare Wt. 27720 LB ght 41120 TB	T DESCRIPTION	N Soil Contam OutCo	AM to 3:30 PM Monday thru 1 hat this load does not conta medical waste or liquids of Telephone (7 S MANNA, NY 14218 MANNA, SURTWARN (910) 799-6767 SIGNATU
	3889 Towerville Roa	Jamestown, New York	000486 ZOLADZ CONS 13600 RAILR	ALDEN NY 14	Scale 1 Stored Net Wei	OTY. UNIT	90.07 90.07	Operating hours 7:30 This is to certify thazardous materials, type. Driver DENNIS Generator TECUMS Comment LACKAM

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LL 601425	· ·		TOTAL	NET AMCUNT	TENDERED CHANGE	CHECK NO.
TL     TEXT     TEXT     TEXT       2     117100     9     KATE HI       DATE IN     DATE OUT     TIME IN     TIME OUT	2/06/13 12/06/13 11:51 11:51 ZC148 REFERENCE 0RIGIN 071513S1 ERIE COUNTY (NY)	Inbound - Charge ticket	RATE EXTENSION FEE		any any 1985-4785	
CHAUTAUQUA COUNTY LANDFILL 3889 Towerville Road Jamestown, New York 14701	000486 ZOLADZ CONSTRUCTION COMPANY 13600 RAILROAD STREET ALDEN NY 14004	Scale 1 Gross Wt. 71140 LB Stored Tare Wt. 27940 LB Net Weight 43200 LB	21.60 TON Soil Contam OutCo	Operating hours 7:30 AM to 3:30 PM Monday thru Frie	This is to certify that this load does not contain hazardous materials, medical waste or liquids of ar type. Telephone (716) Driver TECUMSEH PHASE II	VW6TI TO REORDER CONTACT CAROLINA SOFTWARE (910) 799-6767 SIGNATURE

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# **APPENDIX F**

# ANALYTICAL DATA





#### ANALYTICAL REPORT

Lab Number:	L1309890
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN: Phone:	Tom Forbes (716) 856-0599
Project Name:	PH II & III BP HOT SPOT
Project Number: Report Date:	0071-013-325 06/07/13

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

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

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



Project Name:	PH II & III BP HOT SPOT	Lab Number:	L1309890
Project Number:	0071-013-325	Report Date:	06/07/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1309890-01	BUSINESS PARK II COMPOSITE	TECUMSEH-PH II & III BP HOT	05/31/13 12:00
L1309890-02	BUSINESS PARK III COMPOSITE	TECUMSEH-PH II & III BP HOT	05/31/13 15:00



Project Name:PH II & III BP HOT SPOTProject Number:0071-013-325

 Lab Number:
 L1309890

 Report Date:
 06/07/13

#### **Case Narrative**

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.



Project Name:PH II & III BP HOT SPOTProject Number:0071-013-325

 Lab Number:
 L1309890

 Report Date:
 06/07/13

#### **Case Narrative (continued)**

**Report Submission** 

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

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

Cynthia McQueen

Authorized Signature:

Title: Technical Director/Representative

Date: 06/07/13



# METALS



Serial_No:06071313:27

Project Name:	PH II 8	K III BP HO	Г ЅРОТ				Lab Nur	nber:	L13098	90	
Project Number:	0071-0	)13-325					Report I	Date:	06/07/1	3	
				SAMPL		ULTS					
Lab ID:	L13098	390-01					Date Co	llected:	05/31/1	3 12:00	
Client ID:	BUSIN	ESS PARK	II COM	POSITE			Date Re	ceived:	05/31/1	3	
Sample Location:	TECU	MSEH-PH I	I & III BF	P HOT			Field Pre	ep:	Not Spe	ecified	
Matrix:	Soil						TCLP/SF	PLP Ext. Date	e: 06/03/1	3 15:15	
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA	. 1311 - \	Vestboroug	h Lab								
Arsenic, TCLP	ND		mg/l	1.0	0.03	1	06/04/13 09:20	06/06/13 21:20	EPA 3015	1,6010C	MG
Barium, TCLP	0.40	J	mg/l	0.50	0.03	1	06/04/13 09:20	06/06/13 21:20	EPA 3015	1,6010C	MG
Cadmium, TCLP	ND		mg/l	0.10	0.01	1	06/04/13 09:20	06/06/13 21:20	EPA 3015	1,6010C	MG
Chromium, TCLP	ND		mg/l	0.20	0.02	1	06/04/13 09:20	06/06/13 21:20	EPA 3015	1,6010C	MG
Lead, TCLP	ND		mg/l	0.50	0.03	1	06/04/13 09:20	06/06/13 21:20	EPA 3015	1,6010C	MG
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	06/05/13 09:44	06/05/13 15:54	EPA 7470A	1,7470A	JH

0.03

0.02

1

1

0.50

0.10

mg/l

mg/l



1,6010C

1,6010C

MG

MG

06/04/13 09:20 06/06/13 21:20 EPA 3015

06/04/13 09:20 06/06/13 21:20 EPA 3015

Selenium, TCLP

Silver, TCLP

ND

ND

Project Name: PH II & III BP HOT SPOT Project Number: 0071-013-325 
 Lab Number:
 L1309890

 Report Date:
 06/07/13

## Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilutio Facto	n Date r Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 13	311 - Wes	tborough La	b for sa	mple(s):	01-02	Batch:	WG612402-1			
Arsenic, TCLP	0.04	J	mg/l	1.0	0.03	1	06/04/13 09:20	06/06/13 09:54	1,6010C	MG
Barium, TCLP	0.07	J	mg/l	0.50	0.03	1	06/04/13 09:20	06/06/13 09:54	1,6010C	MG
Cadmium, TCLP	ND		mg/l	0.10	0.01	1	06/04/13 09:20	06/06/13 09:54	1,6010C	MG
Chromium, TCLP	ND		mg/l	0.20	0.02	1	06/04/13 09:20	06/06/13 09:54	1,6010C	MG
Lead, TCLP	ND		mg/l	0.50	0.03	1	06/04/13 09:20	06/06/13 09:54	1,6010C	MG
Selenium, TCLP	ND		mg/l	0.50	0.03	1	06/04/13 09:20	06/06/13 09:54	1,6010C	MG
Silver, TCLP	ND		mg/l	0.10	0.02	1	06/04/13 09:20	06/06/13 09:54	1,6010C	MG

### **Prep Information**

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 06/03/13 15:15

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA	1311 - Westborough La	b for sa	mple(s):	01-02	Batch: W	VG612531-1			
Mercury, TCLP	ND	mg/l	0.0010	0.0003	1	06/05/13 09:44	06/05/13 15:43	1,7470A	JH

#### **Prep Information**

Digestion Method: EPA 7470A TCLP/SPLP Extraction Date: 06/03/13 15:15



### Lab Control Sample Analysis

Batch Quality Control

Project Name: PH II & III BP HOT SPOT

**Project Number:** 0071-013-325

 Lab Number:
 L1309890

 Report Date:
 06/07/13

LCS LCSD %Recovery %Recovery Limits Parameter Qual %Recovery RPD **RPD** Limits Qual Qual TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 01-02 Batch: WG612402-2 Arsenic, TCLP 100 -75-125 20 -Barium, TCLP 100 75-125 20 --Cadmium, TCLP 102 75-125 20 --Chromium, TCLP 95 75-125 20 --Lead, TCLP 102 75-125 20 --Selenium, TCLP 100 -75-125 20 -Silver, TCLP 94 75-125 20 --TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 01-02 Batch: WG612531-2 102 80-120 Mercury, TCLP --



### Matrix Spike Analysis Batch Quality Control

Project Name: PH II & III BP HOT SPOT

**Project Number:** 0071-013-325

 Lab Number:
 L1309890

 Report Date:
 06/07/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	/ Qual	Recovery Limits	RPD Qual	RPD Limits
TCLP Metals by EPA 1311	- Westborough	Lab Associat	ed sample(s	): 01-02 QC	Batch I	D: WG6124	402-4 QC S	Sample:	L1309764-27	Client ID:	MS Sample
Arsenic, TCLP	ND	1.2	1.2	100		-	-		75-125	-	20
Barium, TCLP	0.12J	20	20	100		-	-		75-125	-	20
Cadmium, TCLP	ND	0.51	0.51	100		-	-		75-125	-	20
Chromium, TCLP	ND	2	1.9	95		-	-		75-125	-	20
Lead, TCLP	0.14J	5.1	5.3	104		-	-		75-125	-	20
Selenium, TCLP	ND	1.2	1.2	100		-	-		75-125	-	20
Silver, TCLP	ND	0.5	0.48	96		-	-		75-125	-	20
TCLP Metals by EPA 1311	- Westborough	Lab Associat	ed sample(s)	): 01-02 QC	Batch I	D: WG612	531-4 QC S	Sample:	L1309896-02	Client ID:	MS Sample
Mercury, TCLP	ND	0.025	0.0248	99		-	-		70-130	-	20



Project Name: Project Number:	PH II & III BP HOT S 0071-013-325	POT	Lab Duplicate Analysis Batch Quality Control				
Parameter		Native Sample	Duplicate Sample	Units	RPD Qu	al RPD	Limits
TCLP Metals by EPA 13 Sample	11 - Westborough Lab	Associated sample(s): 01-02	QC Batch ID: WG612402-3	QC Sample:	L1309764-2	7 Client ID:	DUP
Lead, TCLP		0.14J	0.15J	mg/l	NC		20
TCLP Metals by EPA 13 Sample	11 - Westborough Lab	Associated sample(s): 01-02	QC Batch ID: WG612531-3	QC Sample:	L1309896-02	2 Client ID:	DUP
Mercury, TCLP		ND	ND	mg/l	NC		20

- -


Serial_No:06071313:27

Lab Number: L1309890 Report Date: 06/07/13

Project Name:PH II & III BP HOT SPOTProject Number:0071-013-325

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

### Reagent H2O Preserved Vials Frozen on: NA

## Cooler Information Custody Seal Cooler

А

Absent

Container Info	rmation			Temp			
Container ID	Container Type	Cooler	рΗ	deg C	Pres	Seal	Analysis(*)
L1309890-01A	Amber 250ml unpreserved	А	N/A	2.8	Y	Absent	-
L1309890-01X	Plastic 250ml HNO3 preserved spl	A	<2	2.8	Y	Absent	CD-CI(180),AS-CI(180),BA- CI(180),HG-C(28),PB- CI(180),CR-CI(180),SE- CI(180),AG-CI(180)
L1309890-02A	Amber 250ml unpreserved	А	N/A	2.8	Y	Absent	-
L1309890-02X	Plastic 250ml HNO3 preserved spl	A	<2	2.8	Y	Absent	CD-CI(180),AS-CI(180),BA- CI(180),HG-C(28),PB- CI(180),CR-CI(180),SE- CI(180),AG-CI(180)



#### Serial_No:06071313:27

### Project Name: PH II & III BP HOT SPOT

Project Number: 0071-013-325

## Lab Number: L1309890

#### **Report Date:** 06/07/13

#### GLOSSARY

#### Acronyms

- EDL Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
- EPA Environmental Protection Agency.
- LCS Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD Laboratory Control Sample Duplicate: Refer to LCS.
- LFB Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- MDL Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MSD Matrix Spike Sample Duplicate: Refer to MS.
- NA Not Applicable.
- NC Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NI Not Ignitable.
- RL Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
- SRM Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

#### Footnotes

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

#### Terms

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

#### Data Qualifiers

- A Spectra identified as "Aldol Condensation Product".
- B The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C -Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported

Report Format: DU Report with "J" Qualifiers



Serial_No:06071313:27

## Project Name: PH II & III BP HOT SPOT

Project Number: 0071-013-325

Lab Number: L1309890

### **Report Date:** 06/07/13

#### Data Qualifiers

due to obvious interference.

- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- J Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.



Project Name:PH II & III BP HOT SPOTProject Number:0071-013-325

 Lab Number:
 L1309890

 Report Date:
 06/07/13

#### REFERENCES

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

#### LIMITATION OF LIABILITIES

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

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



## Certificate/Approval Program Summary

Last revised December 19, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

#### Connecticut Department of Public Health Certificate/Lab ID: PH-0574. NELAP Accredited Solid Waste/Soil.

*Drinking Water* (<u>Inorganic Parameters</u>: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. <u>Organic Parameters</u>: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). <u>Microbiology Parameters</u>: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

*Wastewater/Non-Potable Water* (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. <u>Organic Parameters</u>: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. <u>Microbiology Parameters</u>: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

*Solid Waste/Soil* (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. <u>Organic Parameters</u>: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270). )

#### Maine Department of Human Services Certificate/Lab ID: 2009024.

*Drinking Water* (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. <u>Organic</u> <u>Parameters</u>: 504.1, 524.2.)

*Wastewater/Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500CI-D, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 6010C, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. <u>Organic Parameters</u>: 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8330, 8151A, 8260B, 8260C, 8270C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

*Solid Waste/Soil* (<u>Inorganic Parameters</u>: 9010B, 9012A, 9014, 9030B, 9040B, 9045C, 6010B, 6010C, 6020, 6020A, 7471A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. <u>Organic Parameters</u>: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8270D, 8330, 8151A, 8081A, 8081B, 8082, 8082A, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

#### Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,TI) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertOT SM9223B; MF-SM9222D.)

*Non-Potable Water* (Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

<u>Organic Parameters</u>: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. <u>Microbiology Parameters</u>: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services <u>Certificate/Lab ID</u>: 200307. NELAP Accredited. Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. <u>Organic Parameters</u>: 504.1, 524.2.)

*Non-Potable Water* (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. <u>Organic Parameters</u>: SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

*Solid & Chemical Materials* (<u>Inorganic Parameters</u>: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. <u>Organic Parameters</u>: SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. *NELAP Accredited. Drinking Water* (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

*Non-Potable Water* (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500CI-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM2520B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. <u>Organic Parameters</u>: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

*Solid & Chemical Materials* (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. <u>Organic Parameters</u>: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

#### New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

*Drinking Water* (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. <u>Organic Parameters</u>: EPA 524.2, 504.1.)

*Non-Potable Water* (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010C, 9030B. <u>Organic Parameters</u>: EPA 624, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

 3546, 3580A, 5030B, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources <u>Certificate/Lab ID</u>: 666. (<u>Inorganic</u> <u>Parameters</u>: SM2310B, 2320B, 4500CI-E, 4500Cn-E, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311,1312. <u>Organic Parameters</u>: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

*Drinking Water Program* <u>Certificate/Lab ID</u>: 25700. (<u>Inorganic Parameters</u>: Chloride EPA 300.0. <u>Organic Parameters</u>: 524.2)

Pennsylvania Department of Environmental Protection <u>Certificate/Lab ID</u>: 68-03671. *NELAP Accredited. Drinking Water* (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. <u>Organic Parameters</u>: EPA 524.2, 504.1)

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500CI-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. <u>Organic Parameters</u>: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

*Solid & Hazardous Waste* (<u>Inorganic Parameters</u>: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. <u>Organic Parameters</u>: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health <u>Certificate/Lab ID</u>: LAO00065. *NELAP Accredited via NJ-DEP*. Refer to MA-DEP Certificate for Potable and Non-Potable Water. Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

**Texas Commisson on Environmental Quality** <u>Certificate/Lab ID</u>: T104704476. *NELAP Accredited. Non-Potable Water* (<u>Inorganic Parameters</u>: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2[−] D, 510C, 5210B, 5220D, 5310C, 5540C. <u>Organic Parameters</u>: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services <u>Certificate/Lab ID</u>: 460195. *NELAP Accredited. Drinking Water* (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.2, 2320B, 4500F-C, 4500NO3-F, 5310C. <u>Organic Parameters</u>: EPA 504.1, 524.2.)

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 9010B, 9040B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C. <u>Organic Parameters</u>: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, )

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9030B, 9010B, 9012A, 9014 9040B, 9045C, 9050A, 9065. <u>Organic Parameters</u>: EPA 5030B, 5035, 3540C, 3546, 355B0, 3580A, 3630C, 6020A, 8260B, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B <u>Certificate/Lab ID</u>: L2217. Drinking Water (Inorganic Parameters: SM 4500H-B. <u>Organic Parameters</u>: EPA 524.2, 504.1.)

*Non-Potable Water* (<u>Inorganic Parameters</u>: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056, 7196A, 3500-Cr-D. <u>Organic Parameters</u>: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Page Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C,

8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

#### The following analytes are not included in our current NELAP/TNI Scope of Accreditation:

**EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

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FAX: 508-898-9193	FAX: 508-822-3288	Project N	lame: <i>PH<u>.</u>T</i>	_3[[_/S	PHO+SP	stign_	l ⊡F/ In¥An	XX NEV	ĺ	KA EMA	IL Deliver	rablee		1	Same	as Client		νO #:		
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Phone: (716) 9	356-0599	Turn-A	Around Tir	ne				· · · · ·												
Fax:						·	1													
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## ANALYTICAL REPORT

Lab Number:	L1315442
Client:	Benchmark & Turnkey Companies
	2558 Hamburg Turnpike
	Suite 300
	Buffalo, NY 14218
ATTN:	Tom Forbes
Phone:	(716) 856-0599
Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number:	Not Specified
Report Date:	08/15/13

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

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

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



Collection

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) Project Number: Not Specified

Lab Number: L1315442 Report Date: 08/15/13

Alpha Sample ID	Client ID
L1315442-01	HOTSPOT A-N
L1315442-02	HOTSPOT A-S
L1315442-03	HOTSPOT A-E
L1315442-04	HOTSPOT A-W
L1315442-05	HOTSPOT A-F(2.5')
L1315442-06	HOTSPOT E-10N
L1315442-07	HOTSPOT E-10E
L1315442-08	HOTSPOT E-10S
L1315442-09	HOTSPOT E-25W
L1315442-10	HOTSPOT E-F(2')
L1315442-11	HOTSPOT H-10E
L1315442-12	HOTSPOT H-10N
L1315442-13	HOTSPOT H-10W
L1315442-14	HOTSPOT H-10S
L1315442-15	HOTSPOT H-F(2')
L1315442-16	HOTSPOT J-10N
L1315442-17	HOTSPOT J-20W
L1315442-18	HOTSPOT J-10S
L1315442-19	HOTSPOT J-10E
L1315442-20	HOTSPOT J-F(2')
L1315442-21	HOTSPOT K-10N
L1315442-22	HOTSPOT K-15E
L1315442-23	HOTSPOT K-10S
L1315442-24	HOTSPOT K-10W
L1315442-25	HOTSPOT K-F(2')
L1315442-26	HOTSPOT N-10N
L1315442-27	HOTSPOT N-10W
L1315442-28	HOTSPOT N-15S
L1315442-29	HOTSPOT N-10E
L1315442-30	HOTSPOT N-F(2')
Hage 2,01,114 L19315442-31	HOTSPOT O-10E

Sample Location	
TECUMSE	ŀ

Location	Date/Time
TECUMSEH BPAII + BPAIII	08/01/13 10:45
TECUMSEH BPAII + BPAIII	08/01/13 10:48
TECUMSEH BPAII + BPAIII	08/01/13 10:50
TECUMSEH BPAII + BPAIII	08/01/13 10:53
TECUMSEH BPAII + BPAIII	08/01/13 10:55
TECUMSEH BPAII + BPAIII	08/01/13 11:45
TECUMSEH BPAII + BPAIII	08/01/13 11:48
TECUMSEH BPAII + BPAIII	08/01/13 11:50
TECUMSEH BPAII + BPAIII	08/01/13 11:53
TECUMSEH BPAII + BPAIII	08/01/13 11:55
TECUMSEH BPAII + BPAIII	08/01/13 09:20
TECUMSEH BPAII + BPAIII	08/01/13 09:15
TECUMSEH BPAII + BPAIII	08/01/13 09:23
TECUMSEH BPAII + BPAIII	08/01/13 09:25
TECUMSEH BPAII + BPAIII	08/01/13 09:30
TECUMSEH BPAII + BPAIII	08/01/13 13:20
TECUMSEH BPAII + BPAIII	08/01/13 13:23
TECUMSEH BPAII + BPAIII	08/01/13 13:25
TECUMSEH BPAII + BPAIII	08/01/13 13:28
TECUMSEH BPAII + BPAIII	08/01/13 13:30
TECUMSEH BPAII + BPAIII	08/01/13 14:30
TECUMSEH BPAII + BPAIII	08/01/13 14:33
TECUMSEH BPAII + BPAIII	08/01/13 14:35
TECUMSEH BPAII + BPAIII	08/01/13 14:38
TECUMSEH BPAII + BPAIII	08/01/13 14:40
TECUMSEH BPAII + BPAIII	08/02/13 14:50
TECUMSEH BPAII + BPAIII	08/02/13 14:53
TECUMSEH BPAII + BPAIII	08/02/13 14:55
TECUMSEH BPAII + BPAIII	08/02/13 14:58
TECUMSEH BPAII + BPAIII	08/02/13 1500 HA
TECUMSEH BPAII + BPAIII	08/02/13 14:15

Alpha Sample ID	Client ID
L1315442-32	HOTSPOT O-10W
L1315442-33	HOTSPOT O-20S
L1315442-34	HOTSPOT O-10N
L1315442-35	HOTSPOT O-F(2')
L1315442-36	HOTSPOT C-100E
L1315442-37	HOTSPOT C-0
L1315442-38	HOTSPOT C-100W
L1315442-39	HOTSPOT C-200W
L1315442-40	HOTSPOT M-10E
L1315442-41	HOTSPOT M-10S
L1315442-42	HOTSPOT M-10W
L1315442-43	HOTSPOT M-10N
L1315442-44	HOTSPOT M-F(2')

Sample	
Location	

Sample Location	Collection Date/Time
TECUMSEH BPAII + BPAIII	08/02/13 14:18
TECUMSEH BPAII + BPAIII	08/02/13 14:20
TECUMSEH BPAII + BPAIII	08/02/13 14:22
TECUMSEH BPAII + BPAIII	08/02/13 14:25
TECUMSEH BPAII + BPAIII	08/01/13 09:45
TECUMSEH BPAII + BPAIII	08/01/13 09:55
TECUMSEH BPAII + BPAIII	08/01/13 10:35
TECUMSEH BPAII + BPAIII	08/01/13 10:40
TECUMSEH BPAII + BPAIII	08/08/13 00:00
TECUMSEH BPAII + BPAIII	08/08/13 00:00
TECUMSEH BPAII + BPAIII	08/08/13 00:00
TECUMSEH BPAII + BPAIII	08/08/13 00:00
TECUMSEH BPAII + BPAIII	08/08/13 00:00



# Project Name:HOTSPOT REMOVAL (ARSENIC+LEAD)Project Number:Not Specified

 Lab Number:
 L1315442

 Report Date:
 08/15/13

#### **Case Narrative**

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.



 Project Name:
 HOTSPOT REMOVAL (ARSENIC+LEAD)

 Project Number:
 Not Specified

 Lab Number:
 L1315442

 Report Date:
 08/15/13

#### **Case Narrative (continued)**

#### **Report Submission**

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

#### Metals

The WG628858-4 MS recovery, performed on L1315442-01, is above the acceptance criteria for lead (397%). A post digestion spike was performed with an acceptable recovery of 85%.

The WG628889-4 MS recovery, performed on L1315442-21, is above the acceptance criteria for arsenic (327%). A post digestion spike was performed with an unacceptable recovery of 70%. This has been attributed to sample matrix.

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

Cynthia McQueen

Authorized Signature:

Title: Technical Director/Representative

Date: 08/15/13



## METALS



Project Name:	HOTS	POT REMO	OVAL (AR	SENIC	+LEAD	)	Lab Nu	mber:	L13154	L1315442			
Project Number:	Not Sp	ecified					Report	Date:	08/15/1	3			
			:	SAMPL	E RES	ULTS							
Lab ID:	L13154	442-16					Date Co	ollected:	08/01/1	3 13:20			
Client ID:	HOTSI	POT J-10N					Date Re	eceived:	08/08/1	3			
Sample Location:	TECUI	MSEH BPA	II + BPAI	II			Field Pr	ep:	Not Spe	Not Specified			
Matrix:	Soil												
Percent Solids:	87%					Dilution	Data	Data	Bron	Analytical			
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst		
Total Metals - Westb	orough L	.ab											
Arsenic, Total	47		mg/kg	0.44	0.09	1	08/14/13 10:1:	3 08/14/13 17:20	EPA 3050B	1,6010C	KL		



Project Name:	HOTS	POT REMO	OVAL (AR	SENIC	+LEAD	)	Lab Nu	mber:	L13154	L1315442			
Project Number:	Not Sp	ecified					Report	Date:	08/15/1	3			
			:	SAMPL	E RES	ULTS							
Lab ID:	L13154	442-17					Date Co	ollected:	08/01/1	3 13:23			
Client ID:	HOTSI	POT J-20W	/				Date Re	eceived:	08/08/1	3			
Sample Location:	TECUI	MSEH BPA	II + BPAI	II			Field Pr	ep:	Not Spe	Not Specified			
Matrix:	Soil												
Percent Solids:	87%					Dilution	Data	Data	Bron	Analytical			
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst		
Total Metals - Westb	orough L	.ab											
Arsenic, Total	90		mg/kg	1.7	0.34	4	08/14/13 10:1:	3 08/14/13 22:00	EPA 3050B	1,6010C	KL		



Project Name:	HOTS	POT REM	OVAL (AR	SENIC	+LEAD	)	Lab Nu	mber:	L13154	L1315442			
Project Number:	Not Sp	pecified					Report	Date:	08/15/1	3			
			:	SAMPL	E RES	ULTS							
Lab ID:	L13154	442-19					Date Co	ollected:	08/01/1	3 13:28			
Client ID:	HOTSI	POT J-10E					Date Re	eceived:	08/08/1	3			
Sample Location:	TECUI	MSEH BPA	All + BPAI	II			Field Pr	ep:	Not Spe	Not Specified			
Matrix:	Soil												
Percent Solids:	90%					Dilution	Data	Data	Bron	Analytical			
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst		
Total Metals - Westb	orough L	.ab											
Arsenic, Total	60		mg/kg	0.44	0.09	1	08/14/13 10:1:	3 08/14/13 17:38	EPA 3050B	1,6010C	KL		



Project Name:	HOTSI	POT REMO	OVAL (AR	SENIC	+LEAD	)	Lab Number: L1315			42	
Project Number:	Not Sp	ecified					Report	Date:	08/15/1	3	
			5	SAMPL	E RES	ULTS					
Lab ID:	L13154	442-20					Date Co	llected:	08/01/1	3 13:30	
Client ID:	HOTSP	POT J-F(2'	)				Date Re	ceived:	08/08/1	3	
Sample Location:	TECUN	MSEH BPA	II + BPAII	I			Field Pre	ep:	Not Spe	ecified	
Matrix:	Soil										
Percent Solids:	87%					Dilution	Data	Dete	Bron	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Westb	orough L	.ab									
Arsenic, Total	91		mg/kg	1.8	0.36	4	08/14/13 10:13	3 08/14/13 22:08	EPA 3050B	1,6010C	KL



Project Name:	HOTS	POT REMO	OVAL (AR	SENIC	+LEAD)	)	Lab Number:		L13154	L1315442	
Project Number:	Not Sp	ecified					Report	Date:	08/15/1	3	
			:	SAMPL	E RES	ULTS					
Lab ID:	L13154	442-21					Date Co	ollected:	08/01/1	3 14:30	
Client ID:	HOTSI	POT K-10N	1				Date Re	eceived:	08/08/1	3	
Sample Location:	TECU	MSEH BPA	II + BPAI	I			Field Pr	ep:	Not Spe	ecified	
Matrix:	Soil										
Percent Solids:	94%					Dilution	Data	Data	Bron	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Westb	orough L	.ab									
Arsenic, Total	28		mg/kg	0.41	0.08	1	08/14/13 11:33 08/14/13 18:4		EPA 3050B	1,6010C	KL



Project Name:	HOTS	POT REMO	OVAL (AR	SENIC	+LEAD	)	Lab Nu	L13154	L1315442		
Project Number:	Not Sp	ecified					Report	Date:	08/15/1	3	
			:	SAMPL	E RES	ULTS					
Lab ID:	L13154	442-22					Date Co	ollected:	08/01/1	3 14:33	
Client ID:	HOTSI	POT K-15E					Date Re	eceived:	08/08/1	3	
Sample Location:	TECU	MSEH BPA	II + BPAI				Field Pr	ep:	Not Spe	cified	
Matrix:	Soil										
Percent Solids:	93%					Dilution	Data	Data	Bron	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Westb	orough L	.ab									
Arsenic, Total	68		mg/kg	0.41	0.08	1	08/14/13 11:33	3 08/14/13 19:11	EPA 3050B	1,6010C	KL



Project Name:	HOTS	POT REMO	OVAL (AR	SENIC	+LEAD)	)	Lab Number: L1			42	
Project Number:	Not Sp	ecified					Report	Date:	08/15/1	3	
			5	SAMPL	E RES	ULTS					
Lab ID:	L13154	442-23					Date Co	llected:	08/01/1	3 14:35	
Client ID:	HOTSI	POT K-10S	;				Date Re	ceived:	08/08/1	3	
Sample Location:	TECU	MSEH BPA	II + BPAII	I			Field Pre	ep:	Not Spe	ecified	
Matrix:	Soil										
Percent Solids:	90%					Dilution	Data	Data	Bron	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Westb	orough L	.ab									
Arsenic, Total	94		mg/kg	0.86	0.17	2	08/14/13 11:33	08/14/13 19:15	EPA 3050B	1,6010C	KL



Project Name:	HOTS	POT REMO	OVAL (AR	SENIC	+LEAD	)	Lab Number: L1315442			42	
Project Number:	Not Sp	ecified					Report I	Date:	08/15/1	3	
			:	SAMPL	E RES	ULTS					
Lab ID:	L13154	442-24					Date Co	llected:	08/01/1	3 14:38	
Client ID:	HOTSI	POT K-10V	V				Date Re	ceived:	08/08/1	3	
Sample Location:	TECU	OTSPOT K-10W ECUMSEH BPAII + BPAIII oil					Field Pre	ep:	Not Spe	cified	
Matrix:	Soil										
Percent Solids:	92%					Dilution	Data	Data	Bron	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Westb	orough L	.ab									
Arsenic, Total	59		mg/kg	0.86	0.17	2	08/14/13 11:33	08/14/13 19:19	EPA 3050B	1,6010C	KL



Project Name:	HOTS	POT REMO	OVAL (AR	SENIC	+LEAD)	)	Lab Number: L131			42	
Project Number:	Not Sp	ecified					Report	Date:	08/15/1	3	
			:	SAMPL	E RES	ULTS					
Lab ID:	L13154	442-25					Date Co	llected:	08/01/1	3 14:40	
Client ID:	HOTSI	POT K-F(2	')				Date Re	ceived:	08/08/1	3	
Sample Location:	TECU	IOTSPOT K-F(2') ECUMSEH BPAII + BPAIII Soil					Field Pre	ep:	Not Spe	cified	
Matrix:	Soil										
Percent Solids:	90%					Dilution	Data	Data	Bron	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Westb	orough L	.ab									
Arsenic, Total	51		mg/kg	0.86	0.17	2	08/14/13 11:33	08/14/13 19:22	EPA 3050B	1,6010C	KL



Project Name:	HOTS	POT REM	OVAL (AR	SENIC	+LEAD	)	Lab Number: L1			42	
Project Number:	Not Sp	pecified					Report	Date:	08/15/1	3	
				SAMPL	E RES	ULTS					
Lab ID:	L1315	442-26					Date Co	ollected:	08/02/1	3 14:50	
Client ID:	HOTS	POT N-10	١				Date Re	eceived:	08/08/1	3	
Sample Location:	TECU	MSEH BPA	II + BPAI	II			Field Pi	rep:	Not Spe	ecified	
Matrix:	Soil										
Percent Solids:	91%					Dilution	Data	Dete	Dron	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Westb	orough L	ab									
Arsenic, Total	100		mg/kg	4.3	0.86	10	08/14/13 11:3	3 08/15/13 12:49	EPA 3050B	1,6010C	KL
Lead, Total	390		mg/kg	21	0.86	10	08/14/13 11:3	3 08/15/13 12:49	EPA 3050B	1,6010C	KL



Project Name:	HOTS	POT REM	OVAL (AF	RSENIC	+LEAD	)	Lab Nu	L13154	L1315442			
Project Number:	Not Sp	pecified					Report	Date:	08/15/1	3		
				SAMPL	E RES	ULTS						
Lab ID:	L1315	442-27					Date Co	ollected:	08/02/1	3 14:53		
Client ID:	HOTS	POT N-10	V				Date Re	eceived:	08/08/1	3		
Sample Location:	TECUI	ECUMSEH BPAII + BPAIII bil					Field Pr	ep:	Not Spe	Not Specified		
Matrix:	Soil	Soil										
Percent Solids:	88%					Dilution	Data	Data	Bron	Analytical		
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst	
Total Metals - Westb	orough L	ab										
Arsenic, Total	51		mg/kg	0.89	0.18	2	08/14/13 11:33	3 08/14/13 19:29	EPA 3050B	1,6010C	KL	
Lead, Total	520		mg/kg	4.4	0.18	2	08/14/13 11:33	3 08/14/13 19:29	EPA 3050B	1,6010C	KL	



Project Name:	HOTS	POT REM	OVAL (AR	SENIC	+LEAD	)	Lab Number: L13			42	
Project Number:	Not Sp	pecified					Report	Date:	08/15/1	3	
				SAMPL	E RES	ULTS					
Lab ID:	L1315	442-28					Date Co	ollected:	08/02/1	3 14:55	
Client ID:	HOTS	POT N-158	3				Date Re	eceived:	08/08/1	3	
Sample Location:	TECU	ECUMSEH BPAII + BPAIII oil					Field Pr	ep:	Not Spe	ecified	
Matrix:	Soil	Soil									
Percent Solids:	88%					Dilution	Data	Data	Bron	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Westb	orough L	ab									
Arsenic, Total	51		mg/kg	0.90	0.18	2	08/14/13 11:33	3 08/14/13 19:33	EPA 3050B	1,6010C	KL
Lead, Total	280		mg/kg	4.5	0.18	2	08/14/13 11:33	3 08/14/13 19:33	EPA 3050B	1,6010C	KL



Project Name:	HOTS	POT REM	OVAL (AF	RSENIC	+LEAD	)	Lab Nu	mber:	L13154	42	
Project Number:	Not Sp	pecified					Report	Date:	08/15/1	3	
				SAMPL	E RES	ULTS					
Lab ID:	L1315	442-29					Date Co	ollected:	08/02/1	3 14:58	
Client ID:	HOTS	POT N-10E	Ē				Date Re	eceived:	08/08/1	3	
Sample Location:	TECU	ECUMSEH BPAII + BPAIII oil					Field Pr	ep:	Not Spe	ecified	
Matrix:	Soil	Soil									
Percent Solids:	89%					Dilution	Data	Dete	Bron	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Westb	orough L	ab									
Arsenic, Total	46		mg/kg	0.88	0.18	2	08/14/13 11:33	3 08/14/13 19:36	EPA 3050B	1,6010C	KL
Lead, Total	230		mg/kg	4.4	0.18	2	08/14/13 11:33	3 08/14/13 19:36	EPA 3050B	1,6010C	KL



Project Name:	HOTS	POT REM	OVAL (AR	SENIC	+LEAD	)	Lab Nu	mber:	L13154	42	
Project Number:	Not Sp	pecified					Report	Date:	08/15/1	3	
			:	SAMPL	E RES	ULTS					
Lab ID:	L1315	442-30					Date Co	ollected:	08/02/1	3 15:00	
Client ID:	HOTS	POT N-F(2	')				Date Re	eceived:	08/08/1	3	
Sample Location:	TECU	ECUMSEH BPAII + BPAIII oil					Field Pr	ep:	Not Spe	ecified	
Matrix:	Soil	Soil									
Percent Solids:	83%					Dilution	Data	Dete	Bron	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Westb	orough L	ab									
Arsenic, Total	63		mg/kg	0.95	0.19	2	08/14/13 11:33	3 08/14/13 19:40	EPA 3050B	1,6010C	KL
Lead, Total	160		mg/kg	4.7	0.19	2	08/14/13 11:33	3 08/14/13 19:40	EPA 3050B	1,6010C	KL



Project Name:	HOTS	POT REMO	OVAL (AR	SENIC	+LEAD	)	Lab Number: L131			42	
Project Number:	Not Sp	ecified					Report	Date:	08/15/1	3	
			5	SAMPL	E RES	ULTS					
Lab ID:	L13154	442-31					Date Co	ollected:	08/02/1	3 14:15	
Client ID:	HOTSI	POT O-10E	Ξ				Date Re	eceived:	08/08/1	3	
Sample Location:	TECU	MSEH BPA	II + BPAII	I			Field Pr	ep:	Not Spe	ecified	
Matrix:	Soil										
Percent Solids:	89%					Dilution	Dete	Data	Bron	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Westb	orough L	.ab									
Arsenic, Total	87		mg/kg	0.90	0.18	2	08/14/13 11:33	3 08/14/13 19:51	EPA 3050B	1,6010C	KL



Project Name:	HOTSI	POT REMO	OVAL (AR	SENIC	+LEAD	)	Lab Nu	mber:	L13154	42				
Project Number:	Not Sp	ecified					Report	Date:	08/15/1	08/15/13				
	SAMPLE RESULTS													
Lab ID:	L13154	442-32					Date Co	llected:	08/02/1	3 14:18				
Client ID:	HOTSP	POT O-10V	N				Date Re	ceived:	08/08/13					
Sample Location:	TECUN	MSEH BPA	II + BPAII	I			Field Pr	ep:	Not Specified					
Matrix:	Soil													
Percent Solids:	89%					Dilution	Data	Dete	Bron	Analytical				
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst			
Total Metals - Westb	Total Metals - Westborough Lab													
Arsenic, Total	14		mg/kg	0.86	0.17	2	08/14/13 11:33	3 08/14/13 19:54	EPA 3050B	1,6010C	KL			



Project Name:	HOTS	POT REMO	OVAL (AR	SENIC	+LEAD	)	Lab Nu	mber:	L13154	42					
Project Number:	Not Sp	ecified					Report	<b>Report Date:</b> 08/15/13							
	SAMPLE RESULTS														
Lab ID:	L13154	442-34					Date Co	llected:	08/02/1	3 14:22					
Client ID:	HOTSI	POT O-10N	١				Date Re	ceived:	08/08/13						
Sample Location:	TECU	MSEH BPA	II + BPAI	11			Field Prep:		Not Specified						
Matrix:	Soil														
Percent Solids:	88%					Dilution	Data	Dete	Bron	Analytical					
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst				
Total Metals - Westb	Total Metals - Westborough Lab														
Arsenic, Total	5.7		mg/kg	0.86	0.17	2	08/14/13 11:33	8 08/14/13 20:01	EPA 3050B	1,6010C	KL				



Project Name:	HOTS	POT REMO	OVAL (AR	SENIC	+LEAD	)	Lab Nur	nber:	L13154	42				
Project Number:	Not Sp	ecified					Report	<b>Report Date:</b> 08/15/13						
SAMPLE RESULTS														
Lab ID:	L13154	442-35					Date Co	llected:	08/02/1	3 14:25				
Client ID:	HOTSI	POT O-F(2	')				Date Re	ceived:	08/08/1	08/08/13				
Sample Location:	TECU	MSEH BPA	II + BPAI	11			Field Prep:		Not Specified					
Matrix:	Soil													
Percent Solids:	86%					Dilution	Data	Data	Bron	Analytical				
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst			
Total Metals - Westb	Total Metals - Westborough Lab													
Arsenic, Total	19		mg/kg	0.91	0.18	2	08/14/13 11:33	08/14/13 20:05	EPA 3050B	1,6010C	KL			



Project Name:	HOTS	POT REMO	OVAL (AR	SENIC	+LEAD)	)	Lab Nu	mber:	L13154	42				
Project Number:	Not Sp	ecified					Report	Report Date: 08/15			5/13			
SAMPLE RESULTS														
Lab ID:	L13154	442-40					Date Co	llected:	08/08/1	3 00:00				
Client ID:	HOTSI	POT M-10E	Ξ				Date Re	ceived:	08/08/13					
Sample Location:	TECU	MSEH BPA	II + BPAII	I			Field Pre	ep:	Not Specified					
Matrix:	Soil													
Percent Solids:	87%					Dilution	Data	Data	Dron	Analytical				
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst			
Total Metals - Westb	orough L	.ab												
Arsenic, Total	86		mg/kg	4.5	0.90	10	08/14/13 11:33	3 08/15/13 12:59	EPA 3050B	1,6010C	KL			



Project Name:	HOTS	POT REMO	OVAL (AR	SENIC	+LEAD	)	Lab Nu	mber:	L13154	42				
Project Number:	Not Sp	ecified					Report	<b>Report Date:</b> 08/15/1						
SAMPLE RESULTS														
Lab ID:	L13154	442-42					Date Co	llected:	08/08/1	3 00:00				
Client ID:	HOTSI	POT M-10V	V				Date Re	ceived:	08/08/13					
Sample Location:	TECU	MSEH BPA	II + BPAII	I			Field Pr	ep:	Not Specified					
Matrix:	Soil													
Percent Solids:	85%					Dilution	Data	Dete	Bron	Analytical				
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst			
Total Metals - Westborough Lab														
Arsenic, Total	63		mg/kg	0.46	0.09	1	08/14/13 15:45	5 08/15/13 13:30	EPA 3050B	1,6010C	KL			



Project Name:	HOTS	POT REMO	OVAL (AR	SENIC	+LEAD	)	Lab Nu	mber:	L13154	42				
Project Number:	Not Sp	ecified					Report	<b>Report Date:</b> 08/15/13						
SAMPLE RESULTS														
Lab ID:	L13154	442-43					Date Co	ollected:	08/08/1	3 00:00				
Client ID:	HOTSI	POT M-10	N				Date Re	eceived:	08/08/13					
Sample Location:	TECU	MSEH BPA	II + BPAI				Field Pr	ep:	Not Specified					
Matrix:	Soil													
Percent Solids:	91%					Dilution	Data	Dete	Bron	Analytical				
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst			
Total Metals - Westb	Total Metals - Westborough Lab													
Arsenic, Total	42		mg/kg	0.43	0.09	1	08/14/13 15:45	5 08/15/13 13:33	EPA 3050B	1,6010C	KL			


Serial_No:08151316:09

Project Name:	HOTS	OTSPOT REMOVAL (ARSENIC+LEAD)						Lab Number: L1315442			
Project Number:	Not Sp	ecified					Report	Report Date: 08/15/			
			:	SAMPL	E RES	ULTS					
Lab ID:	L13154	442-44					Date Co	ollected:	08/08/1	3 00:00	
Client ID:	HOTSI	HOTSPOT M-F(2')				Date Received:		08/08/13			
Sample Location:	TECU	TECUMSEH BPAII + BPAIII				Field Pr	Field Prep:		Not Specified		
Matrix:	Soil										
Percent Solids:	79%					Dilution	Data	Data	Bron	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Westb	orough L	.ab									
Arsenic, Total	42		mg/kg	0.49	0.10	1	08/14/13 15:45	5 08/15/13 13:37	EPA 3050B	1,6010C	KL



 Project Name:
 HOTSPOT REMOVAL (ARSENIC+LEAD)

 Project Number:
 Not Specified

 Lab Number:
 L1315442

 Report Date:
 08/15/13

# Method Blank Analysis Batch Quality Control

Parameter	Result Qu	ualifier Unit	s RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborou	igh Lab for	sample(s): 01	-20 Ba	tch: WG6	28858-1				
Arsenic, Total	ND	mg/k	.g 0.4	0.08	3 1	08/14/13 10:13	08/14/13 15:36	6 1,6010C	KL
Lead, Total	ND	mg/ł	.g 2.	0.0	3 1	08/14/13 10:13	08/14/13 15:36	5 1,6010C	KL

# **Prep Information**

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborou	ugh Lab	for sample(s)	): 21-40	Batch:	WG62	8889-1				
Arsenic, Total	ND		mg/kg	0.40	0.08	1	08/14/13 11:33	08/14/13 18:38	1,6010C	KL
Lead, Total	ND		mg/kg	2.0	0.08	1	08/14/13 11:33	08/14/13 18:38	1,6010C	KL

# **Prep Information**

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborou	igh Lab	for sample(s	s): 41-44	Batch:	WG62	8998-1				
Arsenic, Total	ND		mg/kg	0.40	0.08	1	08/14/13 15:45	08/15/13 11:46	5 1,6010C	KL

# **Prep Information**

Digestion Method: EPA 3050B



# Lab Control Sample Analysis Batch Quality Control

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)

Project Number: Not Specified

 Lab Number:
 L1315442

 Report Date:
 08/15/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Total Metals - Westborough Lab Associated san	nple(s): 01-20	Batch: WC	G628858-2 SRI	M Lot Numbe	er: 0518-10-02				
Arsenic, Total	94		-		81-119	-			
Lead, Total	98		-		80-120	-			
Total Metals - Westborough Lab Associated san	nple(s): 21-40	Batch: WC	G628889-2 SRI	M Lot Numbe	er: 0518-10-02				
Arsenic, Total	94		-		81-119	-			
Lead, Total	94		-		80-120	-			
Total Metals - Westborough Lab Associated san	nple(s): 41-44	Batch: WC	G628998-2 SRI	M Lot Numbe	er: 0518-10-02				
Arsenic, Total	100		-		81-119	-			



L1315442

08/15/13

# Matrix Spike Analysis

Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	Batch Quality Control	Lab Number:
Project Number:	Not Specified		Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	N Qual F	MSD Jound	MSD %Recovery Qual	Recovery Limits	RPD Qual	RPD Limits
Total Metals - Westboroug	h Lab Associated	sample(s): 0	01-20 QC	Batch ID: WG	628858-4	QC S	ample: L1315442-01	Client ID:	HOTSPOT A-I	N
Arsenic, Total	37.	10.6	42	47	Q	-	-	75-125	-	35
Lead, Total	140	45.3	320	397	Q	-	-	75-125	-	35
Total Metals - Westboroug	h Lab Associated	sample(s): 2	21-40 QC	Batch ID: WG	628889-4	QC S	ample: L1315442-21	Client ID:	HOTSPOT K-	10N
Arsenic, Total	28.	9.79	60	327	Q	-	-	75-125	-	35
Lead, Total	200	41.6	330	312	Q	-	-	75-125	-	35
Total Metals - Westboroug	h Lab Associated	sample(s): 4	41-44 QC	Batch ID: WG	628998-4	QC S	ample: L1315342-32	Client ID:	MS Sample	
Arsenic, Total	3.5	10.3	13	92		-	-	75-125	-	35



# Lab Duplicate Analysis Batch Quality Control

Project Name:HOTSPOT REMOVAL (ARSENIC+LEAD)Project Number:Not Specified

 Lab Number:
 L1315442

 Report Date:
 08/15/13

Native Sample **Duplicate Sample** Units RPD Qual **RPD Limits** Parameter Total Metals - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG628858-3 QC Sample: L1315442-01 Client ID: HOTSPOT A-N Lead, Total 140 150 mg/kg 7 35 Total Metals - Westborough Lab Associated sample(s): 21-40 QC Batch ID: WG628889-3 QC Sample: L1315442-21 Client ID: HOTSPOT K-10N Arsenic, Total 28. 31 mg/kg 10 35 Total Metals - Westborough Lab Associated sample(s): 41-44 QC Batch ID: WG628998-3 QC Sample: L1315342-32 Client ID: DUP Sample Arsenic, Total 3.5 mg/kg 35 3.8 8



# INORGANICS & MISCELLANEOUS



Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	Lab Number:	L1315442						
Project Number:	Not Specified	Report Date:	08/15/13						
SAMPLE RESULTS									
Lab ID: Client ID: Sample Location:	L1315442-16 HOTSPOT J-10N TECUMSEH BPAII + BPAIII	Date Collected: Date Received: Field Prep:	08/01/13 13:20 08/08/13 Not Specified						

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	estborough Lat	)								
Solids, Total	87.3		%	0.100	NA	1	-	08/10/13 03:27	30,2540G	RT



Matrix:

Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	Lab Number:	L1315442		
Project Number:	Not Specified	Report Date:	08/15/13		
	SAMPLE RESULTS				
Lab ID: Client ID: Sample Location:	L1315442-17 HOTSPOT J-20W TECUMSEH BPAII + BPAIII	Date Collected: Date Received: Field Prep:	08/01/13 13:23 08/08/13 Not Specified		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - West	General Chemistry - Westborough Lab									
Solids, Total	87.2		%	0.100	NA	1	-	08/10/13 03:27	30,2540G	RT



Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	Lab Number:	L1315442				
Project Number:	Not Specified	Report Date:	08/15/13				
SAMPLE RESULTS							
Lab ID: Client ID: Sample Location:	L1315442-19 HOTSPOT J-10E TECUMSEH BPAII + BPAIII	Date Collected: Date Received: Field Prep:	08/01/13 13:28 08/08/13 Not Specified				
Matrix:	Soil						

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.7		%	0.100	NA	1	-	08/10/13 03:27	30,2540G	RT



Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	Lab Number:	L1315442				
Project Number:	Not Specified	Report Date:	08/15/13				
SAMPLE RESULTS							
Lab ID: Client ID:	L1315442-20 HOTSPOT J-F(2')	Date Collected: Date Received:	08/01/13 13:30 08/08/13				

Sample Location: Matrix:	mple Location: TECUMSEH BPAII + BPAIII atrix: Soil			Field	Prep:	Not Specified				
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	stborough Lal	C								
Solids, Total	87.4		%	0.100	NA	1	-	08/10/13 03:27	30,2540G	RT



Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	Lab Number:	L1315442				
Project Number:	Not Specified	Report Date:	08/15/13				
SAMPLE RESULTS							
Lab ID: Client ID: Sample Location:	L1315442-21 HOTSPOT K-10N TECUMSEH BPAII + BPAIII	Date Collected: Date Received: Field Prep:	08/01/13 14:30 08/08/13 Not Specified				

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.2		%	0.100	NA	1	-	08/10/13 03:43	30,2540G	RT



Serial	No:081	5131	6:09
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Project Name: Project Number:	HOTSPOT REMOVAL (ARSENIC+LEAD)	Lab Number: Report Date:	L1315442				
	Not Specified	Roport Bator	00/10/10				
SAMPLE RESULTS							
Lab ID:	L1315442-22	Date Collected:	08/01/13 14:33				
Client ID:	HOTSPOT K-15E	Date Received:	08/08/13				
Sample Location:	TECUMSEH BPAII + BPAIII	Field Prep:	Not Specified				
Matrix:	Soil						

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	estborough Lat	)								
Solids, Total	92.6		%	0.100	NA	1	-	08/10/13 03:43	30,2540G	RT



Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) Project Number: Not Specified		Lab Number: Report Date:	L1315442 08/15/13
·	SAMPLE RESULTS	·	
Lab ID: Client ID: Sample Location: Matrix:	L1315442-23 HOTSPOT K-10S TECUMSEH BPAII + BPAIII Soil	Date Collected: Date Received: Field Prep:	08/01/13 14:35 08/08/13 Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	estborough Lat	)								
Solids, Total	90.0		%	0.100	NA	1	-	08/10/13 03:43	30,2540G	RT



Serial No	08151	316:09
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Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	Lab Number:	L1315442		
Project Number:	Not Specified	Report Date:	08/15/13		
	SAMPLE RESULTS				
Lab ID: Client ID: Sample Location:	L1315442-24 HOTSPOT K-10W TECUMSEH BPAII + BPAIII	Date Collected: Date Received: Field Prep:	08/01/13 14:38 08/08/13 Not Specified		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westbo	orough Lab	)								
Solids, Total	91.8		%	0.100	NA	1	-	08/10/13 03:43	30,2540G	RT



Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	Lab Number:	L1315442		
Project Number:	Not Specified	Report Date:	08/15/13		
	SAMPLE RESULTS				
Lab ID:	L1315442-25	Date Collected:	08/01/13 14:40		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Client ID: Sample Location: Matrix:	HOTSPOT K-F TECUMSEH BI Soil	'(2') PAII + BPAII	II				Date F Field F	Received: Prep:	08/08/13 Not Specified	

General Chemistry	- Westborough Lab								
Solids, Total	90.4	%	0.100	NA	1	-	08/10/13 03:43	30,2540G	RT



Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	Lab Number:	L1315442					
Project Number:	Not Specified	Report Date:	08/15/13					
SAMPLE RESULTS								
Lab ID: Client ID: Sample Location:	L1315442-26 HOTSPOT N-10N TECUMSEH BPAII + BPAIII	Date Collected: Date Received: Field Prep:	08/02/13 14:50 08/08/13 Not Specified					

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - West	tborough Lat	)								
Solids, Total	91.1		%	0.100	NA	1	-	08/10/13 03:43	30,2540G	RT



Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	Lab Number:	L1315442					
Project Number:	Not Specified	Report Date:	08/15/13					
SAMPLE RESULTS								
Lab ID: Client ID: Sample Location:	L1315442-27 HOTSPOT N-10W TECUMSEH BPAII + BPAIII	Date Collected: Date Received: Field Prep:	08/02/13 14:53 08/08/13 Not Specified					

Soil

Matrix:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westbo	rough Lat	)								
Solids, Total	88.4		%	0.100	NA	1	-	08/10/13 03:43	30,2540G	RT



Serial	No:081	5131	6:09
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Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	Lab Number:	L1315442					
Project Number:	Not Specified	Report Date:	08/15/13					
SAMPLE RESULTS								
Lab ID: Client ID: Sample Location:	L1315442-28 HOTSPOT N-15S TECUMSEH BPAII + BPAIII	Date Collected: Date Received: Field Prep:	08/02/13 14:55 08/08/13 Not Specified					

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westbo	rough Lat	)								
Solids, Total	87.6		%	0.100	NA	1	-	08/10/13 03:43	30,2540G	RT



Project Name: Project Number:	HOTSPOT REMOVAL (ARSENIC+LEAD) Not Specified	Lab Number: Report Date:	L1315442 08/15/13				
SAMPLE RESULTS							
Lab ID: Client ID: Sample Location: Matrix:	L1315442-29 HOTSPOT N-10E TECUMSEH BPAII + BPAIII Soil	Date Collected: Date Received: Field Prep:	08/02/13 14:58 08/08/13 Not Specified				

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	estborough Lat	)								
Solids, Total	88.7		%	0.100	NA	1	-	08/10/13 03:43	30,2540G	RT



Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	Lab Number:	L1315442		
Project Number:	Not Specified	Report Date:	08/15/13		
	SAMPLE RESULTS				
Lab ID:	L1315442-30	Date Collected:	08/02/13 15:00		

Sample Location:TECUMSEH BPAIL + BPAILField Prep:Not SpecifiedMatrix:Soil	Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
	Sample Location: Matrix:	TECUMSEH BI	PAII + BPAI	II				Field F	Prep:	Not Specified	

General Chemistry - W	/estborough Lab								
Solids, Total	83.0	%	0.100	NA	1	-	08/10/13 03:43	30,2540G	RT



Project Name: Project Number:	HOTSPOT REMOVAL (ARSENIC+LEAD) Not Specified	Lab Number: Report Date:	L1315442 08/15/13
	SAMPLE RESULTS		
Lab ID: Client ID: Sample Location: Matrix:	L1315442-31 HOTSPOT O-10E TECUMSEH BPAII + BPAIII Soil	Date Collected: Date Received: Field Prep:	08/02/13 14:15 08/08/13 Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	estborough Lat	C								
Solids, Total	88.7		%	0.100	NA	1	-	08/10/13 03:43	30,2540G	RT



Serial	No:081	5131	6:09
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Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	Lab Number:	L1315442		
Project Number:	Not Specified	Report Date:	08/15/13		
	SAMPLE RESULTS				
Lab ID: Client ID:	L1315442-32 HOTSPOT O-10W TECLIMSEH BRAIL + BRAIII	Date Collected: Date Received:	08/02/13 14:18 08/08/13 Not Specified		
Matrix:	Soil	Field Prep:	Not Specified		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westb	orough Lab	)								
Solids, Total	88.9		%	0.100	NA	1	-	08/10/13 03:43	30,2540G	RT



Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	Lab Number:	L1315442		
Project Number:	Not Specified	Report Date:	08/15/13		
	SAMPLE RESULTS				
Lab ID: Client ID: Sample Location:	L1315442-34 HOTSPOT O-10N TECUMSEH BPAII + BPAIII	Date Collected: Date Received: Field Prep:	08/02/13 14:22 08/08/13 Not Specified		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	Vestborough Lat	)								
Solids, Total	87.9		%	0.100	NA	1	-	08/10/13 03:43	30,2540G	RT



Matrix:

Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	Lab Number:	L1315442					
Project Number:	Not Specified	Report Date:	08/15/13					
SAMPLE RESULTS								
Lab ID: Client ID: Sample Location:	L1315442-35 HOTSPOT O-F(2') TECUMSEH BPAII + BPAIII	Date Collected: Date Received: Field Prep:	08/02/13 14:25 08/08/13 Not Specified					

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Vestborough Lat	)								
Solids, Total	85.9		%	0.100	NA	1	-	08/10/13 03:43	30,2540G	RT



Matrix:

08/10/13 03:43

30,2540G

RT

Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	Lab Number:	L1315442					
Project Number:	Not Specified	Report Date:	08/15/13					
SAMPLE RESULTS								
Lab ID:	L1315442-40	Date Collected:	08/08/13 00:00					

General Chemistry - We	stborough Lal	b								
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Matrix:	Soil									
Sample Location:	TECUMSEH BPAII + BPAIII						Field P	Prep:	Not Specified	
Client ID:	ient ID: Hersi et Merse						Date R	leceived:	08/08/13	

NA

1

-

0.100

%



Solids, Total

86.8

Field Prep:

Not Specified

Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	Lab Number:	L1315442					
Project Number:	Not Specified	Report Date:	08/15/13					
SAMPLE RESULTS								
Lab ID: Client ID:	L1315442-42 HOTSPOT M-10W	Date Collected: Date Received:	08/08/13 00:00 08/08/13					

Sample Location: TECUMSEH BPAII + BPAIII

Soil

Matrix:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	/estborough Lab	)								
Solids, Total	85.1		%	0.100	NA	1	-	08/10/13 03:08	30,2540G	RT



Serial No	08151	316:09
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Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	Lab Number:	L1315442						
Project Number:	Not Specified	Report Date:	08/15/13						
SAMPLE RESULTS									
Lab ID:	L1315442-43	Date Collected:	08/08/13 00:00						

Client ID: Sample Location: Matrix:	Client ID:HOTSPOT M-10NSample Location:TECUMSEH BPAII + BPAIIIMatrix:Soil						Date Received: Field Prep:		08/08/13 Not Specified	
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	stborough Lat	)								
Solids, Total	90.6		%	0.100	NA	1	-	08/10/13 03:08	30,2540G	RT



08/10/13 03:08

30,2540G

RT

Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	Lab Number:	L1315442					
Project Number:	Not Specified	Report Date:	08/15/13					
SAMPLE RESULTS								
Lab ID:	L1315442-44	Date Collected:	08/08/13 00:00					

Sample Location: Matrix:	Soil	PAII + BPAI					Field P	rep:	Not Specified	
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst

NA

1

-

0.100

%



Solids, Total

79.0

# Lab Duplicate Analysis Batch Quality Control

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)

 Lab Number:
 L1315442

 Report Date:
 08/15/13

Project Number: Not Specified

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual RPD Limits
General Chemistry - Westborough Lab Associated san	nple(s): 41-44 QC Batch I	D: WG628023-1	QC Sample: L13 [°]	15400-01	Client ID: DUP Sample
Solids, Total	89.5	89.0	%	1	20
General Chemistry - Westborough Lab Associated san	nple(s): 01-20 QC Batch I	D: WG628024-1 (	QC Sample: L13	15442-01	Client ID: HOTSPOT A-N
Solids, Total	87.2	86.6	%	1	20
General Chemistry - Westborough Lab Associated san	nple(s): 21-40 QC Batch I	D: WG628025-1	QC Sample: L13	15442-21	Client ID: HOTSPOT K-10N
Solids, Total	94.2	93.5	%	1	20



#### Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)

Project Number: Not Specified

# Sample Receipt and Container Information

YES Were project specific reporting limits specified?

#### Reagent H2O Preserved Vials Frozen on: NA

### **Cooler Information Custody Seal** Cooler А Absent

# **Container Information**

Container Information								
Container Type	Cooler	рΗ	deg C	Pres	Seal	Analysis(*)		
Amber 120ml unpreserved	А	N/A	3	Y	Absent	TS(7),PB-TI(180)		
Amber 120ml unpreserved	А	N/A	3	Y	Absent	TS(7),PB-TI(180)		
Amber 120ml unpreserved	А	N/A	3	Y	Absent	TS(7),PB-TI(180)		
Amber 120ml unpreserved	А	N/A	3	Y	Absent	TS(7),PB-TI(180)		
Amber 120ml unpreserved	А	N/A	3	Y	Absent	TS(7),PB-TI(180)		
Amber 120ml unpreserved	А	N/A	3	Y	Absent	AS-TI(180),TS(7)		
Amber 120ml unpreserved	А	N/A	3	Y	Absent	AS-TI(180),TS(7)		
Amber 120ml unpreserved	А	N/A	3	Y	Absent	AS-TI(180),TS(7)		
Amber 120ml unpreserved	А	N/A	3	Y	Absent	AS-TI(180),TS(7)		
Amber 120ml unpreserved	А	N/A	3	Y	Absent	AS-TI(180),TS(7)		
Amber 120ml unpreserved	В	N/A	3	Y	Absent	AS-TI(180),TS(7)		
Amber 120ml unpreserved	А	N/A	3	Y	Absent	AS-TI(180),TS(7)		
Amber 120ml unpreserved	А	N/A	3	Y	Absent	AS-TI(180),TS(7)		
Amber 120ml unpreserved	А	N/A	3	Υ	Absent	AS-TI(180),TS(7)		
Amber 120ml unpreserved	В	N/A	3	Υ	Absent	AS-TI(180),TS(7)		
Amber 120ml unpreserved	А	N/A	3	Υ	Absent	AS-TI(180),TS(7)		
Amber 120ml unpreserved	А	N/A	3	Υ	Absent	AS-TI(180),TS(7)		
Amber 120ml unpreserved	А	N/A	3	Y	Absent	AS-TI(180),TS(7)		
Amber 120ml unpreserved	А	N/A	3	Y	Absent	AS-TI(180),TS(7)		
Amber 120ml unpreserved	А	N/A	3	Y	Absent	AS-TI(180),TS(7)		
Amber 120ml unpreserved	В	N/A	3	Y	Absent	AS-TI(180),TS(7)		
Amber 120ml unpreserved	В	N/A	3	Y	Absent	AS-TI(180),TS(7)		
Amber 120ml unpreserved	В	N/A	3	Y	Absent	AS-TI(180),TS(7)		
Amber 120ml unpreserved	А	N/A	3	Y	Absent	AS-TI(180),TS(7)		
Amber 120ml unpreserved	А	N/A	3	Y	Absent	AS-TI(180),TS(7)		
Amber 120ml unpreserved	В	N/A	3	Y	Absent	AS-TI(180),TS(7),PB-TI(180)		
	Container TypeAmber 120ml unpreservedAmber 120ml unpreserved	Container TypeCoolerAmber 120ml unpreservedAAmber 120ml unpreservedBAmber 120ml unpreservedBAmber 120ml unpreservedBAmber 120ml unpreservedBAmber 120ml unpreservedAAmber 120ml unpreservedA <t< td=""><td>rmationContainer TypeCoolerpHAmber 120ml unpreservedAN/AAmber 120ml unpreservedBN/AAmber 120ml unpreservedBN/AAmber 120ml unpreservedBN/AAmber 120ml unpreservedAN/AAmber 120ml unpreservedBN/AAmber 120ml unpreservedBN/AAmber 120ml unpreservedAN/AAmber 120ml unpreservedBN/AAmber 120ml unpreservedBN/A<t< td=""><td>rmationTemp deg CContainer TypeCoolerpHdeg CAmber 120ml unpreservedAN/A3Amber 120ml unpreservedBN/A3Amber 120ml unpreservedBN/A3Amber 120ml unpreservedBN/A3Amber 120ml</td><td>rmationTemp CoolerPHTemp deg CPresAmber 120ml unpreservedAN/A3YAmber 120ml unpreservedBN/A3YAmber 120ml unpreserved<!--</td--><td>rmationTemp degPresSealContainer TypeCoolerpHdegPresSealAmber 120ml unpreservedAN/A3YAbsentAmber 120ml unpreservedAN/A3YAbsent</td></td></t<></td></t<>	rmationContainer TypeCoolerpHAmber 120ml unpreservedAN/AAmber 120ml unpreservedBN/AAmber 120ml unpreservedBN/AAmber 120ml unpreservedBN/AAmber 120ml unpreservedAN/AAmber 120ml unpreservedBN/AAmber 120ml unpreservedBN/AAmber 120ml unpreservedAN/AAmber 120ml unpreservedBN/AAmber 120ml unpreservedBN/A <t< td=""><td>rmationTemp deg CContainer TypeCoolerpHdeg CAmber 120ml unpreservedAN/A3Amber 120ml unpreservedBN/A3Amber 120ml unpreservedBN/A3Amber 120ml unpreservedBN/A3Amber 120ml</td><td>rmationTemp CoolerPHTemp deg CPresAmber 120ml unpreservedAN/A3YAmber 120ml unpreservedBN/A3YAmber 120ml unpreserved<!--</td--><td>rmationTemp degPresSealContainer TypeCoolerpHdegPresSealAmber 120ml unpreservedAN/A3YAbsentAmber 120ml unpreservedAN/A3YAbsent</td></td></t<>	rmationTemp deg CContainer TypeCoolerpHdeg CAmber 120ml unpreservedAN/A3Amber 120ml unpreservedBN/A3Amber 120ml unpreservedBN/A3Amber 120ml unpreservedBN/A3Amber 120ml	rmationTemp CoolerPHTemp deg CPresAmber 120ml unpreservedAN/A3YAmber 120ml unpreservedBN/A3YAmber 120ml unpreserved </td <td>rmationTemp degPresSealContainer TypeCoolerpHdegPresSealAmber 120ml unpreservedAN/A3YAbsentAmber 120ml unpreservedAN/A3YAbsent</td>	rmationTemp degPresSealContainer TypeCoolerpHdegPresSealAmber 120ml unpreservedAN/A3YAbsentAmber 120ml unpreservedAN/A3YAbsent		





# Serial_No:08151316:09

# Project Name:HOTSPOT REMOVAL (ARSENIC+LEAD)Project Number:Not Specified

# Lab Number: L1315442 Report Date: 08/15/13

Container Information								
Container ID	Container Type	Cooler	рΗ	deg C	Pres	Seal	Analysis(*)	
L1315442-27A	Amber 120ml unpreserved	А	N/A	3	Y	Absent	AS-TI(180),TS(7),PB-TI(180)	
L1315442-28A	Amber 120ml unpreserved	В	N/A	3	Y	Absent	AS-TI(180),TS(7),PB-TI(180)	
L1315442-29A	Amber 120ml unpreserved	В	N/A	3	Y	Absent	AS-TI(180),TS(7),PB-TI(180)	
L1315442-30A	Amber 120ml unpreserved	В	N/A	3	Y	Absent	AS-TI(180),TS(7),PB-TI(180)	
L1315442-31A	Amber 120ml unpreserved	В	N/A	3	Y	Absent	AS-TI(180),TS(7)	
L1315442-32A	Amber 120ml unpreserved	В	N/A	3	Y	Absent	AS-TI(180),TS(7)	
L1315442-33A	Amber 120ml unpreserved	В	N/A	3	Y	Absent	AS-TI(180),TS(7)	
L1315442-34A	Amber 120ml unpreserved	В	N/A	3	Y	Absent	AS-TI(180),TS(7)	
L1315442-35A	Amber 120ml unpreserved	В	N/A	3	Y	Absent	AS-TI(180),TS(7)	
L1315442-36A	Amber 120ml unpreserved	А	N/A	3	Y	Absent	AS-TI(180),TS(7)	
L1315442-37A	Amber 120ml unpreserved	А	N/A	3	Y	Absent	AS-TI(180),TS(7)	
L1315442-38A	Amber 120ml unpreserved	А	N/A	3	Y	Absent	AS-TI(180),TS(7)	
L1315442-39A	Amber 120ml unpreserved	В	N/A	3	Y	Absent	AS-TI(180),TS(7)	
L1315442-40A	Amber 120ml unpreserved	В	N/A	3	Y	Absent	AS-TI(180),TS(7)	
L1315442-41A	Amber 120ml unpreserved	В	N/A	3	Y	Absent	AS-TI(180),TS(7)	
L1315442-42A	Amber 120ml unpreserved	В	N/A	3	Y	Absent	AS-TI(180),TS(7)	
L1315442-43A	Amber 120ml unpreserved	В	N/A	3	Y	Absent	AS-TI(180),TS(7)	
L1315442-44A	Amber 120ml unpreserved	В	N/A	3	Y	Absent	AS-TI(180),TS(7)	



# **Project Name:** HOTSPOT REMOVAL (ARSENIC+LEAD)

# Project Number: Not Specified

# Lab Number: L1315442

# **Report Date:** 08/15/13

## GLOSSARY

#### Acronyms

- EDL Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
- EPA Environmental Protection Agency.
- LCS Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD Laboratory Control Sample Duplicate: Refer to LCS.
- LFB Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- MDL Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MSD Matrix Spike Sample Duplicate: Refer to MS.
- NA Not Applicable.
- NC Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NI Not Ignitable.
- RL Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
- SRM Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

#### Footnotes

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

#### Terms

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

#### Data Qualifiers

- A Spectra identified as "Aldol Condensation Product".
- B The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C -Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with "J" Qualifiers



# Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)

Project Number: Not Specified

Lab Number: L1315442

**Report Date:** 08/15/13

#### Data Qualifiers

- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- **P** The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- J Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.





 Project Name:
 HOTSPOT REMOVAL (ARSENIC+LEAD)

 Project Number:
 Not Specified

 Lab Number:
 L1315442

 Report Date:
 08/15/13

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

# LIMITATION OF LIABILITIES

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

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



# Certificate/Approval Program Summary

Last revised July 2, 2013 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

## Connecticut Department of Public Health Certificate/Lab ID: PH-0574. NELAP Accredited Solid Waste/Soil.

*Drinking Water* (<u>Inorganic Parameters</u>: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. <u>Organic Parameters</u>: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). <u>Microbiology Parameters</u>: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

*Wastewater/Non-Potable Water* (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. <u>Organic Parameters</u>: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. <u>Microbiology Parameters</u>: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

*Solid Waste/Soil* (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. <u>Organic Parameters</u>: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270). )

# State of Illinois Certificate/Lab ID: 003155. NELAP Accredited.

*Drinking Water* (Inorganic Parameters: SM2120B, 2320B, 2510B, 2540C, SM4500CN-CE, 4500F-C, 4500H-B, 4500NO3-F, 5310C, EPA 200.7, 200.8, 245.1, 300.0. <u>Organic Parameters</u>: EPA 504.1, 524.2.)

*Wastewater/Non-Potable Water* (Inorganic Parameters: SM2120B, 2310B, 2320B, 2340B, 2510B, 2540B, 2540C, 2540D, SM4500CL-E, 4500CN-E, 4500F-C, 4500H-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-E, 4500S-D, 4500SO3-B, 5210B, 5220D, 5310C, 5540C, EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1. <u>Organic Parameters</u>: EPA 608, 624, 625.)

*Hazardous and Solid Waste* (Inorganic Parameters: EPA 1010A, 1030, 1311, 1312, 6010C, 6020A, 7196A, 7470A, 7471B, 9012B, 9014, 9038, 9040C, 9045D, 9050A, 9065, 9251. <u>Organic Parameters</u>: 8011 (NPW only), 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8315A, 8330.)

# Maine Department of Human Services Certificate/Lab ID: 2009024.

*Drinking Water* (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2120B, 2130B, 2320B, 2510C, 2540C, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, 5310C, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. <u>Organic Parameters</u>: 504.1, 524.2.)

*Wastewater/Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664A, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 8315A, 9010C, SM2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-C, 4500NH3-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-B, 4500P-E, 4500S2-D, 4500SO3-B, 5540C, 5210B, 5220D, 5310C, 9010B, 9030B, 9040C, 7470A, 7196A, 2340B, EPA 200.7, 6010C, 200.8, 6020A, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. <u>Organic Parameters</u>: 608, 624, 625, 8011, 8081B, 8082A, 8330, 8151A, 8260C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

*Solid Waste/Soil* (<u>Inorganic Parameters</u>: 9010B, 9012A, 9014, 9040B, 9045C, 6010C, 6020A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B, 9038, 9251. <u>Organic Parameters</u>: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260C, 8270D, 8330, 8151A, 8081B, 8082A, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035.)

# Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

*Drinking Water* (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B. <u>Organic Parameters</u>: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. <u>Microbiology Parameters</u>: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water* (Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

<u>Organic Parameters</u>: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. <u>Microbiology Parameters</u>: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services <u>Certificate/Lab ID</u>: 200307. NELAP Accredited. Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. <u>Organic Parameters</u>: 504.1, 524.2.)

*Non-Potable Water* (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. <u>Organic Parameters</u>: SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

*Solid & Chemical Materials* (<u>Inorganic Parameters</u>: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. <u>Organic Parameters</u>: SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Hampshire Department of Environmental Services <u>Certificate/Lab ID</u>: 2064. NELAP Accredited. Drinking Water (<u>Organic Parameters</u>: EPA 524.2: Di-isopropyl ether (DIPE), Ethyl-t-butyl ether (ETBE), Tert-amyl methyl ether (TAME)).

Non-Potable Water (Organic Parameters: EPA 8260C: 1,3,5-Trichlorobenzene. EPA 8015C(M): TPH.)

Solid & Chemical Materials (Organic Parameters: EPA 8260C: 1,3,5-Trichlorobenzene.)

### New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

*Drinking Water* (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. <u>Organic Parameters</u>: EPA 332, 504.1, 524.2.)

*Non-Potable Water* (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500CI-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. <u>Organic Parameters</u>: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Page Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D,
9050A, 9065, 9251. <u>Organic Parameters</u>: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

#### New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

*Drinking Water* (<u>Inorganic Parameters</u>: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.1, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. <u>Organic Parameters</u>: EPA 524.2, 504.1.)

*Non-Potable Water* (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2340B, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010C, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 8315A, 3005A, 3015, 9010C, 9030B. <u>Organic Parameters</u>: EPA 624, 8260C, 8270D, 8270D-SIM, 625, 608, 8081B, 8151A, 8330, 8082A, EPA 3510C, 5030B, 8015C, 8011.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1010A, 1030, EPA 6010C, 6020A, 7196A, 7471B, 8315A, 9012B, 9014, 9065, 9050A, 9038, 9251, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. <u>Organic Parameters:</u> EPA 8260C, 8270D, 8270D-SIM, 8015C, 8081B, 8151A, 8330, 8082A, 3540C, 3546, 3580A, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources <u>Certificate/Lab ID</u>: 666. (<u>Inorganic</u> <u>Parameters</u>: SM2310B, 2320B, 4500CI-E, 4500Cn-E, 9012B, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311,1312. <u>Organic Parameters</u>: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

*Drinking Water Program* <u>Certificate/Lab ID</u>: 25700. (<u>Inorganic Parameters</u>: Chloride EPA 300.0. <u>Organic Parameters</u>: 524.2)

Pennsylvania Department of Environmental Protection <u>Certificate/Lab ID</u>: 68-03671. *NELAP Accredited. Drinking Water* (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. <u>Organic Parameters</u>: EPA 524.2, 504.1)

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500CI-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. <u>Organic Parameters</u>: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

*Solid & Hazardous Waste* (<u>Inorganic Parameters</u>: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. <u>Organic Parameters</u>: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health <u>Certificate/Lab ID</u>: LAO00065. *NELAP Accredited via NJ-DEP.* Refer to MA-DEP Certificate for Potable and Non-Potable Water. Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

**Texas Commisson on Environmental Quality** <u>Certificate/Lab ID</u>: T104704476. *NELAP Accredited. Non-Potable Water* (<u>Inorganic Parameters</u>: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2⁻ D, 510C, 5210B, 5220D, 5310C, 5540C. <u>Organic Parameters</u>: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services <u>Certificate/Lab ID</u>: 460195. *NELAP Accredited. Drinking Water* (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.1, 2320B, 4500F-C, 4500NO3-F, 4500H+B, 5310C. <u>Organic Parameters</u>: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 351.2, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 2340B, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, Page 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500 SO3-B, 4500H-B, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C, 9010Cm

9030B, 9040C. <u>Organic Parameters</u>: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, )

*Solid & Hazardous Waste* (<u>Inorganic Parameters</u>: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9010C, 9012B, 9030B, 9014, 9038, 9040C, 9045D, 9251, 9050A, 9065. <u>Organic Parameters</u>: EPA 5030B, 5035, 3540C, 3546, 3550B, 3580A, 3620C, 3630C, 6020A, 8260B, 8260C, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

**Department of Defense, L-A-B** <u>Certificate/Lab ID</u>: L2217. *Drinking Water* (<u>Inorganic Parameters</u>: SM 4500H-B. <u>Organic Parameters</u>: EPA 524.2, 504.1.)

*Non-Potable Water* (<u>Inorganic Parameters</u>: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056, 7196A, 3500-Cr-D. <u>Organic Parameters</u>: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

*Solid & Hazardous Waste* (<u>Inorganic Parameters</u>: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, <u>Organic Parameters</u>: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

#### The following analytes are not included in our current NELAP/TNI Scope of Accreditation:

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether. **EPA 8260B:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8260 Non-potable water matrix:** Iodomethane (methyl iodide), Methyl methacrylate. **EPA 8260 Soil matrix:** Tert-amyl methyl ether (TAME), Diisopropyl ether (DIPE), Azobenzene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine. **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

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## ANALYTICAL REPORT

Lab Number:	L1316540
Client:	Benchmark & Turnkey Companies
	2558 Hamburg Turnpike
	Suite 300
	Buffalo, NY 14218
ATTN:	Tom Forbes
Phone:	(716) 856-0599
Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number:	0071-013-325
Report Date:	09/04/13

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Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

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



Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number:	0071-013-325

 Lab Number:
 L1316540

 Report Date:
 09/04/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1316540-01	025S	TECUMSEH BPAII + BPAIII	08/23/13 09:45
L1316540-02	J20S	TECUMSEH BPAII + BPAIII	08/23/13 09:40
L1316540-03	H 15S	TECUMSEH BPAII + BPAIII	08/23/13 09:20
L1316540-04	E 35W	TECUMSEH BPAII + BPAIII	08/23/13 11:45
L1316540-05	M 20S	TECUMSEH BPAII + BPAIII	08/23/13 09:55



# Project Name:HOTSPOT REMOVAL (ARSENIC+LEAD)Project Number:0071-013-325

 Lab Number:
 L1316540

 Report Date:
 09/04/13

#### **Case Narrative**

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.



Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) Project Number: 0071-013-325

 Lab Number:
 L1316540

 Report Date:
 09/04/13

#### **Case Narrative (continued)**

**Report Submission** 

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

Metals

L1316540-01 through -05 have elevated detection limits due to the dilutions required by matrix interferences encountered during analysis.

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

Cynthia Mi Chen Cynthia McQueen

Authorized Signature:

Title: Technical Director/Representative

Date: 09/04/13



# METALS



Serial_No:09041313:51

Project Name:	HOTS	POT REMO	OVAL (AR	SENIC	+LEAD	)	Lab Nu	mber:	L13165	40	
Project Number:	0071-0	013-325					Report	Date:	09/04/1	3	
			\$	SAMPL	E RES	ULTS					
Lab ID:	L1316	540-05					Date Co	ollected:	08/23/1	3 09:55	
Client ID:	M 20S						Date Re	eceived:	08/23/1	3	
Sample Location:	TECUI	MSEH BPA	AII + BPAII	I			Field Pre	ep:	Not Spe	ecified	
Matrix:	Soil										
Percent Solids:	83%					Dilution	Data	Dete	Bron	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Westb	orough L	.ab									
Arsenic, Total	90		mg/kg	0.95	0.19	2	08/30/13 12:28	3 09/03/13 20:57	EPA 3050B	1,6010C	MG



Project Name:HOTSPOT REMOVAL (ARSENIC+LEAD)Project Number:0071-013-325

 Lab Number:
 L1316540

 Report Date:
 09/04/13

# Method Blank Analysis Batch Quality Control

Parameter	Result (	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborou	igh Lab fo	or sample(s	s): 01-05	Batch:	WG63	2857-1				
Arsenic, Total	ND		mg/kg	0.40	0.08	1	08/30/13 12:28	09/03/13 13:18	1,6010C	MG

# **Prep Information**

Digestion Method: EPA 3050B



# Lab Control Sample Analysis Batch Quality Control

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)

**Project Number:** 0071-013-325

 Lab Number:
 L1316540

 Report Date:
 09/04/13

Parameter	LCS %Recovery	Qual	LCSD %Recover	y Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Total Metals - Westborough Lab As	ssociated sample(s): 01-05	Batch: WO	G632857-2	SRM Lot Numbe	er: 0518-10-02				
Arsenic, Total	100		-		81-119	-			



		Matrix Spike Analysis		
Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	Batch Quality Control	Lab Number:	L1316540
Project Number:	0071-013-325		Report Date:	09/04/13

<u>P</u> ;	arameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD Qual	RPD Limits
Т	Total Metals - Westborough Lab	Associated	sample(s): 07	1-05 QC	Batch ID: WG	632857-	4 QC S	Sample: L131652	29-12	Client ID:	MS Sample	
	Arsenic, Total	1.8	10.2	10	80		-	-		75-125	-	35



Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	Lab Duplicate Analy	SIS	La	r: L1316540	
Project Number:	0071-013-325	Batch Quality Control		R	e: 09/04/13	
Parameter	Native Samp	le Duplicate Sample	Units	RPD	Qual	RPD Limits

Farameter	Native Sample	Duplicate Sample	Units	NFU		LIIIIIIS
Total Metals - Westborough Lab Associated sample(s): 0	1-05 QC Batch ID: \	WG632857-3 QC Sample:	L1316529-12	2 Client ID	: DUP Sample	
Arsenic, Total	1.8	1.4	mg/kg	25		35



# INORGANICS & MISCELLANEOUS



Serial	No:09041313:51
• • • · · · • · ·	

Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	Lab Number:	L1316540
Project Number:	0071-013-325	Report Date:	09/04/13
	SAMPLE RESULTS		

Lab ID:	L1316540-05	Date Collected:	08/23/13 09:55
Client ID:	M 20S	Date Received:	08/23/13
Sample Location:	TECUMSEH BPAII + BPAIII	Field Prep:	Not Specified
Matrix:	Soil		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	/estborough Lat	)								
Solids, Total	83.0		%	0.100	NA	1	-	08/26/13 21:56	30,2540G	RT



Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	POT REMOVAL (ARSENIC+LEAD) Lab Duplicate Analys Batch Quality Control				: L1316540
Project Number:	0071-013-325			R	eport Date	: 09/04/13
rameter	Nativo Sampl	n Duplicato Sampla	Unite	חספ	Qual	PPD Limits

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits	
General Chemistry - Westborough Lab Associa	ated sample(s): 01-05 QC Ba	tch ID: WG631669-1 QC	Sample: L13	16531-01	Client ID: I	DUP Sample	
Solids, Total	76.8	77.2	%	1		20	



Serial_No:09041313:51

# Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) Project Number: 0071-013-325

Lab Number: L1316540 Report Date: 09/04/13

### Sample Receipt and Container Information

Were project specific reporting limits specified? YES

### Reagent H2O Preserved Vials Frozen on: NA

# Cooler Information Custody Seal Cooler

Α

Absent

Container Information	tion
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	ination			remp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1316540-01A	Amber 120ml unpreserved	А	N/A	2.8	Y	Absent	AS-TI(180),TS(7)
L1316540-02A	Amber 120ml unpreserved	А	N/A	2.8	Y	Absent	AS-TI(180),TS(7)
L1316540-03A	Amber 120ml unpreserved	А	N/A	2.8	Y	Absent	AS-TI(180),TS(7)
L1316540-04A	Amber 120ml unpreserved	А	N/A	2.8	Y	Absent	AS-TI(180),TS(7)
L1316540-05A	Amber 120ml unpreserved	А	N/A	2.8	Y	Absent	AS-TI(180),TS(7)



#### **Project Name:** HOTSPOT REMOVAL (ARSENIC+LEAD)

Project Number: 0071-013-325

# Lab Number: L1316540

#### Report Date: 09/04/13

#### GLOSSARY

#### Acronyms

- EDL Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
- EPA Environmental Protection Agency.
- LCS Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD Laboratory Control Sample Duplicate: Refer to LCS.
- LFB Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- MDL Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MSD Matrix Spike Sample Duplicate: Refer to MS.
- NA Not Applicable.
- NC Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NI Not Ignitable.
- RL Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
- SRM Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

#### Footnotes

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

#### Terms

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

#### Data Qualifiers

- A Spectra identified as "Aldol Condensation Product".
- B The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C -Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with "J" Qualifiers



09/04/13

#### **Project Name:** HOTSPOT REMOVAL (ARSENIC+LEAD)

**Project Number:** 0071-013-325 Lab Number: L1316540 **Report Date:** 

Data Qualifiers

- М - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- Р - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R - Analytical results are from sample re-analysis.
- RE - Analytical results are from sample re-extraction.
- S - Analytical results are from modified screening analysis.
- J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.





Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) Project Number: 0071-013-325 
 Lab Number:
 L1316540

 Report Date:
 09/04/13

#### REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

#### LIMITATION OF LIABILITIES

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

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



### **Certificate/Approval Program Summary**

Last revised August 29, 2013 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

#### Connecticut Department of Public Health Certificate/Lab ID: PH-0574. NELAP Accredited Solid Waste/Soil.

*Drinking Water* (<u>Inorganic Parameters</u>: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. <u>Organic Parameters</u>: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). <u>Microbiology Parameters</u>: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

*Wastewater/Non-Potable Water* (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. <u>Organic Parameters</u>: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. <u>Microbiology Parameters</u>: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

*Solid Waste/Soil* (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. <u>Organic Parameters</u>: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270). )

#### State of Illinois Certificate/Lab ID: 003155. NELAP Accredited.

*Drinking Water* (Inorganic Parameters: SM2120B, 2320B, 2510B, 2540C, SM4500CN-CE, 4500F-C, 4500H-B, 4500NO3-F, 5310C, EPA 200.7, 200.8, 245.1, 300.0. <u>Organic Parameters</u>: EPA 504.1, 524.2.)

*Wastewater/Non-Potable Water* (Inorganic Parameters: SM2120B, 2310B, 2320B, 2340B, 2510B, 2540B, 2540C, 2540D, SM4500CL-E, 4500CN-E, 4500F-C, 4500H-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-E, 4500S-D, 4500SO3-B, 5210B, 5220D, 5310C, 5540C, EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1. <u>Organic Parameters</u>: EPA 608, 624, 625.)

*Hazardous and Solid Waste* (Inorganic Parameters: EPA 1010A, 1030, 1311, 1312, 6010C, 6020A, 7196A, 7470A, 7471B, 9012B, 9014, 9038, 9040C, 9045D, 9050A, 9065, 9251. <u>Organic Parameters</u>: 8011 (NPW only), 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8315A, 8330.)

#### Maine Department of Human Services Certificate/Lab ID: 2009024.

*Drinking Water* (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2120B, 2130B, 2320B, 2510C, 2540C, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, 5310C, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. <u>Organic Parameters</u>: 504.1, 524.2.)

*Wastewater/Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664A, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 8315A, 9010C, SM2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-C, 4500NH3-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-B, 4500P-E, 4500S2-D, 4500SO3-B, 5540C, 5210B, 5220D, 5310C, 9010B, 9030B, 9040C, 7470A, 7196A, 2340B, EPA 200.7, 6010C, 200.8, 6020A, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. <u>Organic Parameters</u>: 608, 624, 625, 8011, 8081B, 8082A, 8330, 8151A, 8260C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

*Solid Waste/Soil* (<u>Inorganic Parameters</u>: 9010B, 9012A, 9014, 9040B, 9045C, 6010C, 6020A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B, 9038, 9251. <u>Organic Parameters</u>: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260C, 8270D, 8330, 8151A, 8081B, 8082A, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035.)

#### Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

*Drinking Water* (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B. <u>Organic Parameters</u>: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. <u>Microbiology Parameters</u>: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water* (Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

<u>Organic Parameters</u>: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. <u>Microbiology Parameters</u>: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services <u>Certificate/Lab ID</u>: 200307. NELAP Accredited. Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. <u>Organic Parameters</u>: 504.1, 524.2.)

*Non-Potable Water* (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. <u>Organic Parameters</u>: SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

*Solid & Chemical Materials* (<u>Inorganic Parameters</u>: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. <u>Organic Parameters</u>: SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Hampshire Department of Environmental Services <u>Certificate/Lab ID</u>: 2064. NELAP Accredited. Drinking Water (<u>Organic Parameters</u>: EPA 524.2: Di-isopropyl ether (DIPE), Ethyl-t-butyl ether (ETBE), Tert-amyl methyl ether (TAME)).

Non-Potable Water (Organic Parameters: EPA 8260C: 1,3,5-Trichlorobenzene. EPA 8015C(M): TPH.)

Solid & Chemical Materials (Organic Parameters: EPA 8260C: 1,3,5-Trichlorobenzene.)

#### New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

*Drinking Water* (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. <u>Organic Parameters</u>: EPA 332, 504.1, 524.2.)

*Non-Potable Water* (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500CI-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. <u>Organic Parameters</u>: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Page Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D,

9050A, 9065, 9251. <u>Organic Parameters</u>: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

#### New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

*Drinking Water* (<u>Inorganic Parameters</u>: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.1, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. <u>Organic Parameters</u>: EPA 524.2, 504.1.)

*Non-Potable Water* (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2340B, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010C, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 8315A, 3005A, 3015, 9010C, 9030B. <u>Organic Parameters</u>: EPA 624, 8260C, 8270D, 8270D-SIM, 625, 608, 8081B, 8151A, 8330, 8082A, EPA 3510C, 5030B, 8015C, 8011.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1010A, 1030, EPA 6010C, 6020A, 7196A, 7471B, 8315A, 9012B, 9014, 9065, 9050A, 9038, 9251, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. <u>Organic Parameters:</u> EPA 8260C, 8270D, 8270D-SIM, 8015C, 8081B, 8151A, 8330, 8082A, 3540C, 3546, 3580A, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources <u>Certificate/Lab ID</u>: 666. (<u>Inorganic</u> <u>Parameters</u>: SM2310B, 2320B, 4500CI-E, 4500Cn-E, 9012B, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311,1312. <u>Organic Parameters</u>: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

*Drinking Water Program* <u>Certificate/Lab ID</u>: 25700. (<u>Inorganic Parameters</u>: Chloride EPA 300.0. <u>Organic Parameters</u>: 524.2)

Pennsylvania Department of Environmental Protection <u>Certificate/Lab ID</u>: 68-03671. *NELAP Accredited. Drinking Water* (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. <u>Organic Parameters</u>: EPA 524.2, 504.1)

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500CI-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. <u>Organic Parameters</u>: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

*Solid & Hazardous Waste* (<u>Inorganic Parameters</u>: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. <u>Organic Parameters</u>: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health <u>Certificate/Lab ID</u>: LAO00065. *NELAP Accredited via NJ-DEP.* Refer to MA-DEP Certificate for Potable and Non-Potable Water. Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

**Texas Commisson on Environmental Quality** <u>Certificate/Lab ID</u>: T104704476. *NELAP Accredited. Non-Potable Water* (<u>Inorganic Parameters</u>: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2⁻ D, 510C, 5210B, 5220D, 5310C, 5540C. <u>Organic Parameters</u>: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services <u>Certificate/Lab ID</u>: 460195. *NELAP Accredited. Drinking Water* (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.1, 2320B, 4500F-C, 4500NO3-F, 4500H+B, 5310C. <u>Organic Parameters</u>: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 351.2, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 2340B, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, Page 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500 SO3-B, 4500H-B, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C, 9010Cm

9030B, 9040C. <u>Organic Parameters</u>: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, )

*Solid & Hazardous Waste* (<u>Inorganic Parameters</u>: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9010C, 9012B, 9030B, 9014, 9038, 9040C, 9045D, 9251, 9050A, 9065. <u>Organic Parameters</u>: EPA 5030B, 5035, 3540C, 3546, 3550B, 3580A, 3620C, 3630C, 6020A, 8260B, 8260C, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

**Department of Defense, L-A-B** <u>Certificate/Lab ID</u>: L2217. *Drinking Water* (<u>Inorganic Parameters</u>: SM 4500H-B. <u>Organic Parameters</u>: EPA 524.2, 504.1.)

*Non-Potable Water* (Inorganic Parameters: EPA 200.7, 200.8, 6010C, 6020A, 245.1, 7470A, 9040B, 9010B, 180.1, 300.0, 332.0, 6860, 351.1, 353.2, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500Norg-C, 4500NO3-F, 5310C, 2130B, 2320B, 2340B, 2540C, 5540C, 3005A, 3015, 9056, 7196A, 3500-Cr-D. <u>Organic Parameters</u>: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A, 8082A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

*Solid & Hazardous Waste* (<u>Inorganic Parameters</u>: EPA 200.7, 6010C, 6020A, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9040B, 9045C, 9010C, 9012B, 9251, SM3500-CR-D, 4500CN-CE, 2540G, <u>Organic Parameters</u>: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A/B-prep, 8082A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

#### The following analytes are not included in our current NELAP/TNI Scope of Accreditation:

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether. **EPA 8260B:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8260 Non-potable water matrix:** Iodomethane (methyl iodide), Methyl methacrylate. **EPA 8260 Soil matrix:** Tert-amyl methyl ether (TAME), Diisopropyl ether (DIPE), Azobenzene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine. **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

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WESTBORO, MA	MANSFIELD, MA	<b>Project Information</b>		Report Inforr	nation - Data Delivera	bles Billing	nformation
TEL: 508-898-9220	TEL: 508-822-9300	Project Name: Hotsat	Penn in Arsenic	🗆 FAX	EMAIL	🗙 Same a	s Client info PO #:
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Buttalo N	IY 14218	ALPHA Quote #:					
Phone: (716)	- 856 - 0549	Turn-Around Time					
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PORM NO: 01-01 (rev. 14-0				0-			

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## ANALYTICAL REPORT

Lab Number:	L1318103
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Tom Forbes
Phone:	(716) 856-0599
Project Name:	HOTSPOT REMOVAL
Project Number:	0071-013-325
Report Date:	10/09/13

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

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

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



 Lab Number:
 L1318103

 Report Date:
 10/09/13

Project Name:	HOTSPOT REMOVAL
Project Number:	0071-013-325

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time		
L1318103-01	J30S	TECUMSEH	09/12/13 09:30		
L1318103-02	J40S	TECUMSEH	09/12/13 09:50		
L1318103-03	O30S	TECUMSEH	09/12/13 10:30		
L1318103-04	O35S	TECUMSEH	09/12/13 10:50		



# Project Name: HOTSPOT REMOVAL Project Number: 0071-013-325

 Lab Number:
 L1318103

 Report Date:
 10/09/13

#### **Case Narrative**

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.



Project Name:HOTSPOT REMOVALProject Number:0071-013-325

 Lab Number:
 L1318103

 Report Date:
 10/09/13

#### **Case Narrative (continued)**

Report Submission

This final report replaces the partial report issued September 26, 2013, and includes the results of all requested analyses.

The previously-issued partial report replaced the partial report issued September 19, 2013. At the client's request, the analysis of Total Arsenic was performed on L1318103-04.

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

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

Authorized Signature:

Michelle M. Morris

Title: Technical Director/Representative

Date: 10/09/13



# METALS



Serial_No:10091318:32

Project Name:	HOTS	POT REM	OVAL				Lab Nu	mber:	L13181	03	
Project Number:	0071-0	0071-013-325					Report	Report Date:		10/09/13	
SAMPLE RESULTS											
Lab ID:	L1318 ⁻	103-01					Date Co	ollected:	09/12/1	3 09:30	
Client ID:	J30S						Date Re	eceived:	09/13/1	3	
Sample Location:	TECUI	TECUMSEH					Field Prep:		Not Specified		
Matrix:	Matrix: Soil										
Percent Solids:	85%					Dilution	Data	Data	Bron	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	30		mg/kg	4.6	0.92	10	09/17/13 10:25	5 09/17/13 17:47	EPA 3050B	1,6010C	MG



Project Name:HOTSPOT REMOVALProject Number:0071-013-325

 Lab Number:
 L1318103

 Report Date:
 10/09/13

# Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborou	igh Lab for sample	e(s): 01,03	Batch:	WG63	6712-1				
Arsenic, Total	ND	mg/kg	0.40	0.08	1	09/17/13 10:25	09/17/13 17:19	1,6010C	MG
Prep Information       Digestion Method:     EPA 3050B									
Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 04 Batch: WG638614-1									
Arsenic, Total	ND	mg/kg	0.40	0.08	1	09/24/13 12:40	09/24/13 19:36	1,6010C	MG

**Prep Information** 

Digestion Method: EPA 3050B


# Lab Control Sample Analysis

Batch Quality Control

Lab Number: L1318103 **Report Date:** 10/09/13

LCS LCSD %Recovery %Recovery %Recovery Limits Parameter Qual RPD **RPD Limits** Qual Qual Total Metals - Westborough Lab Associated sample(s): 01,03 Batch: WG636712-2 SRM Lot Number: 0518-10-02 100 81-119 Arsenic, Total --Total Metals - Westborough Lab Associated sample(s): 04 Batch: WG638614-2 SRM Lot Number: 0518-10-02 81-119 Arsenic, Total 100 --

**Albha** 

**Project Name:** 

**Project Number:** 

HOTSPOT REMOVAL

0071-013-325

# Matrix Spike Analysis Batch Quality Control

Project Name:HOTSPOT REMOVALProject Number:0071-013-325

 Lab Number:
 L1318103

 Report Date:
 10/09/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery Qu	Recovery al Limits	RPD Qual	RPD Limits
Total Metals - Westborough Lal	o Associated	sample(s): 01	03 QC	Batch ID: WG	636712-4	4 QC Sa	ample: L1318028-0	1 Client ID:	MS Sample	
Arsenic, Total	4.9	12.4	11	49	Q	-	-	75-125	-	35
Total Metals - Westborough Lal	o Associated	sample(s): 04	QC Ba	tch ID: WG638	614-4	QC Sam	ole: L1318559-01	Client ID: MS	Sample	
Arsenic, Total	8.6	11.7	24	132	Q	-	-	75-125	-	35



Parameter		Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Project Number:	0071-013-325				R	eport Date	:: 10/09/13
Project Name:	HOTSPOT REMOVAL	L	ab Duplicate Analy Batch Quality Control	/SIS	La	ab Numbe	<b>r:</b> L1318103

Total Metals - Westborough Lab Associated s	ample(s): 01,03 QC Batch ID: WG6	636712-3 QC Sample: L1318028-	01 Client ID	: DUP Sample
Arsenic, Total	4.9	4.2 mg/kg	15	35
Total Metals - Westborough Lab Associated s	ample(s): 04 QC Batch ID: WG638	614-3 QC Sample: L1318559-01	Client ID: D	UP Sample
Arsenic, Total	8.6	9.4 mg/kg	9	35



# INORGANICS & MISCELLANEOUS



								Serial_No:10	091318:32	
Project Name:	HOTSPOT F	REMOVA	L				Lab N	lumber:	L1318103	
Project Number:	0071-013-32	25					Repo	rt Date:	10/09/13	
				SAMPLE	RESUL	TS				
Lab ID:	L1318103-0	1					Date	Collected:	09/12/13 09:3	0
Client ID:	J30S						Date	Received:	09/13/13	
Sample Location:	TECUMSEH						Field	Prep:	Not Specified	
Matrix:	Soil									
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	stborough Lat	)								
Solids, Total	84.6		%	0.100	NA	1	-	09/16/13 13:18	30,2540G	ML



Project Name:	HOTSPOT REMOVAL	Lab Duplicate Analysis Batch Quality Control	Lab Number:	L1318103
Project Number:	0071-013-325		Report Date:	10/09/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associa	ated sample(s): 01,03 QC Batch I	D: WG636434-1 Q0	C Sample: L13	18064-10	Client ID:	DUP Sample
Solids, Total	95.7	95.4	%	0		20
General Chemistry - Westborough Lab Associa	ated sample(s): 04 QC Batch ID:	WG638037-1 QC S	ample: L1318 ²	03-04 Cli	ient ID: O3	5S
Solids, Total	89.8	87.8	%	2		20



Serial_No:10091318:32

Lab Number: L1318103 Report Date: 10/09/13

#### Project Name: HOTSPOT REMOVAL Project Number: 0071-013-325

# Sample Receipt and Container Information

YES Were project specific reporting limits specified?

#### Reagent H2O Preserved Vials Frozen on: NA

# **Cooler Information Custody Seal** Cooler

А

Absent

# **Container Information**

Container Info	rmation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1318103-01A	Amber 120ml unpreserved	А	N/A	6	Y	Absent	AS-TI(180),TS(7)
L1318103-02A	Amber 120ml unpreserved	А	N/A	6	Y	Absent	HOLD()
L1318103-03A	Amber 120ml unpreserved	А	N/A	6	Y	Absent	AS-TI(180),TS(7)
L1318103-04A	Amber 120ml unpreserved	А	N/A	6	Y	Absent	AS-TI(180),TS(7)



# Serial_No:10091318:32

# Project Name: HOTSPOT REMOVAL

Project Number: 0071-013-325

# Lab Number: L1318103

# Report Date: 10/09/13

# GLOSSARY

#### Acronyms

- EDL Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
- EPA Environmental Protection Agency.
- LCS Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD Laboratory Control Sample Duplicate: Refer to LCS.
- LFB Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- MDL Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MSD Matrix Spike Sample Duplicate: Refer to MS.
- NA Not Applicable.
- NC Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NI Not Ignitable.
- RL Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
- SRM Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

#### Footnotes

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

#### Terms

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

#### Data Qualifiers

- A Spectra identified as "Aldol Condensation Product".
- B The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C -Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with "J" Qualifiers



Serial_No:10091318:32

# Project Name: HOTSPOT REMOVAL

Project Number: 0071-013-325

Lab Number: L1318103

**Report Date:** 10/09/13

#### Data Qualifiers

- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- **P** The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- J Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.



Project Name:HOTSPOT REMOVALProject Number:0071-013-325

 Lab Number:
 L1318103

 Report Date:
 10/09/13

# REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

# LIMITATION OF LIABILITIES

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

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



# **Certificate/Approval Program Summary**

Last revised October 1, 2013 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

# Connecticut Department of Public Health Certificate/Lab ID: PH-0574. NELAP Accredited Solid Waste/Soil.

*Drinking Water* (<u>Inorganic Parameters</u>: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. <u>Organic Parameters</u>: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). <u>Microbiology Parameters</u>: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

*Wastewater/Non-Potable Water* (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. <u>Organic Parameters</u>: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. <u>Microbiology Parameters</u>: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

*Solid Waste/Soil* (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. <u>Organic Parameters</u>: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270). )

# State of Illinois Certificate/Lab ID: 003155. NELAP Accredited.

*Drinking Water* (Inorganic Parameters: SM2120B, 2320B, 2510B, 2540C, SM4500CN-CE, 4500F-C, 4500H-B, 4500NO3-F, 5310C, EPA 200.7, 200.8, 245.1, 300.0. <u>Organic Parameters</u>: EPA 504.1, 524.2.)

*Wastewater/Non-Potable Water* (Inorganic Parameters: SM2120B, 2310B, 2320B, 2340B, 2510B, 2540B, 2540C, 2540D, SM4500CL-E, 4500CN-E, 4500F-C, 4500H-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-E, 4500S-D, 4500SO3-B, 5210B, 5220D, 5310C, 5540C, EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1. <u>Organic Parameters</u>: EPA 608, 624, 625.)

*Hazardous and Solid Waste* (Inorganic Parameters: EPA 1010A, 1030, 1311, 1312, 6010C, 6020A, 7196A, 7470A, 7471B, 9012B, 9014, 9038, 9040C, 9045D, 9050A, 9065, 9251. <u>Organic Parameters</u>: 8011 (NPW only), 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8315A, 8330.)

# Maine Department of Human Services Certificate/Lab ID: 2009024.

*Drinking Water* (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2120B, 2130B, 2320B, 2510C, 2540C, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, 5310C, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. <u>Organic Parameters</u>: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 8315A, 9010C, SM2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-C, 4500NH3-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-B, 4500P-E, 4500S2-D, 4500SO3-B, 5540C, 5210B, 5220D, 5310C, 9010B, 9030B, 9040C, 7470A, 7196A, 2340B, EPA 200.7, 6010C, 200.8, 6020A, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. <u>Organic Parameters</u>: 608, 624, 625, 8011, 8081B, 8082A, 8330, 8151A, 8260C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

*Solid Waste/Soil* (<u>Inorganic Parameters</u>: 9010B, 9012A, 9014, 9040B, 9045C, 6010C, 6020A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B, 9038, 9251. <u>Organic Parameters</u>: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260C, 8270D, 8330, 8151A, 8081B, 8082A, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035.)

# Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

*Drinking Water* (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B. <u>Organic Parameters</u>: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. <u>Microbiology Parameters</u>: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water* (Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

<u>Organic Parameters</u>: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. <u>Microbiology Parameters</u>: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services <u>Certificate/Lab ID</u>: 200307. NELAP Accredited. Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. <u>Organic Parameters</u>: 504.1, 524.2.)

*Non-Potable Water* (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. <u>Organic Parameters</u>: SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

*Solid & Chemical Materials* (<u>Inorganic Parameters</u>: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. <u>Organic Parameters</u>: SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Hampshire Department of Environmental Services <u>Certificate/Lab ID</u>: 2064. NELAP Accredited. Drinking Water (<u>Organic Parameters</u>: EPA 524.2: Di-isopropyl ether (DIPE), Ethyl-t-butyl ether (ETBE), Tert-amyl methyl ether (TAME)).

Non-Potable Water (Organic Parameters: EPA 8260C: 1,3,5-Trichlorobenzene. EPA 8015C(M): TPH.)

Solid & Chemical Materials (Organic Parameters: EPA 8260C: 1,3,5-Trichlorobenzene.)

## New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

*Drinking Water* (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. <u>Organic Parameters</u>: EPA 332, 504.1, 524.2.)

*Non-Potable Water* (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500CI-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310C, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, 4500SO4-E, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. <u>Organic Parameters</u>: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 5030C, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Page Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D,

9050A, 9065, 9251. <u>Organic Parameters</u>: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5030C, 5035L, 5035H, NJ EPH.)

## New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

*Drinking Water* (<u>Inorganic Parameters</u>: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.1, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. <u>Organic Parameters</u>: EPA 524.2, 504.1.)

*Non-Potable Water* (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2340B, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010C, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 8315A, 3005A, 9010C, 9030B. <u>Organic Parameters</u>: EPA 624, 8260C, 8270D, 8270D-SIM, 625, 608, 8081B, 8151A, 8330A, 8082A, EPA 3510C, 5030B, 5030C, 8015C, 8011.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1010A, 1030, EPA 6010C, 6020A, 7196A, 7471B, 8315A, 9012B, 9014, 9065, 9050A, 9038, 9251, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. <u>Organic Parameters:</u> EPA 8260C, 8270D, 8270D-SIM, 8015C, 8081B, 8151A, 8330A, 8082A, 3540C, 3546, 3580A, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources <u>Certificate/Lab ID</u>: 666. (<u>Inorganic</u> <u>Parameters</u>: SM2310B, 2320B, 4500CI-E, 4500Cn-E, 9012B, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311,1312. <u>Organic Parameters</u>: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

*Drinking Water Program* <u>Certificate/Lab ID</u>: 25700. (Inorganic Parameters: Chloride EPA 300.0. <u>Organic Parameters</u>: 524.2)

Pennsylvania Department of Environmental Protection <u>Certificate/Lab ID</u>: 68-03671. *NELAP Accredited. Drinking Water* (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. <u>Organic Parameters</u>: EPA 524.2, 504.1)

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500CI-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. <u>Organic Parameters</u>: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

*Solid & Hazardous Waste* (<u>Inorganic Parameters</u>: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. <u>Organic Parameters</u>: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health <u>Certificate/Lab ID</u>: LAO00065. *NELAP Accredited via NJ-DEP.* Refer to MA-DEP Certificate for Potable and Non-Potable Water. Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476. NELAP Accredited.

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2⁻ D, 510C, 5210B, 5220D, 5310C, 5540C. <u>Organic Parameters</u>: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services <u>Certificate/Lab ID</u>: 460195. *NELAP Accredited. Drinking Water* (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.1, 2320B, 4500F-C, 4500NO3-F, 4500H+B, 5310C. <u>Organic Parameters</u>: EPA 504.1, 524.2.)

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 351.2, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 2340B, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-Page 00-1-X, 7196A, 7470A, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C,

4500NH3-H, 4500NO2-B, 4500NO3-F, 4500 SO3-B, 4500H-B, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C, 9010Cm 9030B, 9040C. <u>Organic Parameters</u>: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, )

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9010C, 9012B, 9030B, 9014, 9038, 9040C, 9045D, 9251, 9050A, 9065. <u>Organic Parameters</u>: EPA 5030B, 5035, 3540C, 3546, 3550B, 3580A, 3620C, 3630C, 6020A, 8260B, 8260C, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

**Department of Defense, L-A-B** <u>Certificate/Lab ID</u>: L2217. *Drinking Water* (<u>Inorganic Parameters</u>: SM 4500H-B. <u>Organic Parameters</u>: EPA 524.2, 504.1.)

*Non-Potable Water* (<u>Inorganic Parameters</u>: EPA 200.7, 200.8, 6010C, 6020A, 245.1, 7470A, 9040B, 9010B, 180.1, 300.0, 332.0, 6860, 351.1, 353.2, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500Norg-C, 4500NO3-F, 5310C, 2130B, 2320B, 2340B, 2540C, 5540C, 3005A, 3015, 9056, 7196A, 3500-Cr-D. <u>Organic Parameters</u>: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A, 8082A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

*Solid & Hazardous Waste* (<u>Inorganic Parameters</u>: EPA 200.7, 6010C, 6020A, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9040B, 9045C, 9010C, 9012B, 9251, SM3500-CR-D, 4500CN-CE, 2540G, <u>Organic Parameters</u>: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A/B-prep, 8082A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

# The following analytes are not included in our current NELAP/TNI Scope of Accreditation:

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether. **EPA 8260B:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8260 Non-potable water matrix:** Iodomethane (methyl iodide), Methyl methacrylate. **EPA 8260 Soil matrix:** Tert-amyl methyl ether (TAME), Diisopropyl ether (DIPE), Azobenzene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine. **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

																<u>S</u>	erial No:10091318:32
	CHAIN OF	CU	STO	DY P	AGE	OF	Date	e Rec'	d in L	ab:	9	131	B		AL	PHA	Job #: [131810]
WESTBORO, MA	MANSFIELD, MA	Project	Informati	ion			Re	port l	nforr	natio	n - Data	a Deliv	erable	s	Bi	ling	Information
TEL: 508-898-9220	TEL: 508-822-9300	Project N	ame: Ha	strant	Roma	unt		FAX		À	<b>É</b> MAIL	-			X.	ame a	as Client info PO #:
Client Information	1	Project L	ocation:	T	<u></u>			ADEx			Add'l De	eliverabl	es				
Client:		· Project #	·	ecun	220		Reg	ulato	ry Re	quire	ements/	Repor	t Limi	ts			
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Ruffa	6, NY 14218	ALPHA C	Quote #:	Tom	Torbe	y											
Phone: 716-22	15-3314	Turn-A	round Tir	ne					•								
Fax:																	
Email: bgweree	& twokey llc.com e been previously analyzed by Alpha	Date Du	ırd □ e: 9	20 C	confirmed if pre-a	pproved!)	5	212						/	7/		SAMPLE HANDLING
Other Project Sp	Decific Requirements/Comn	nents/De		imits:			7 ANA	treetue									Done     H     Not needed     Lab to do     Preservation     Lab to do     T
ALPHA Lab ID (Lab Use Only)	Sample ID		Colle Date	ection Time	Sample Matrix	Sampler's Initials	/	7	$\left  \right $		/ /	/ /			/	/. ,	Sample Specific Comments
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					Pr	eservative	A										pletely. Samples can not be logged in and turnaround time clock will not
- - -		Relinqu	ished By:		Dat	te/Time	1	WA	Reg	pived	By:			Date	/Time	•	start until any ambiguitles are resolved
	Brock	figene			9-12-	13/1400	U		10				7/	<u> 2 </u>	1/4	100	Alpha's Terms and Conditions.
FORM NO: 01-01 (rev. 14-00	DT-07)	J			9/12/	15/100		10	e	pr	UT.	5		<u>(14</u>	51/5	50	Yordreverse side

Page 26 of 26 . . .....



# ANALYTICAL REPORT

Lab Number:	L1320249
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY, 14218
ATTN: Phone:	Brock Greene (716) 856-0599
Project Name:	HOTSPOT REMOVAL
Report Date:	10/15/13

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

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

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



 Lab Number:
 L1320249

 Report Date:
 10/15/13

Project Name:HOTSPOT REMOVALProject Number:0071-013-325

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1320249-01	O45S	TECUMSEH	10/08/13 15:30
L1320249-02	O55S	TECUMSEH	10/08/13 15:35



# Project Name: HOTSPOT REMOVAL Project Number: 0071-013-325

Lab Number: L1320249 Report Date: 10/15/13

# **Case Narrative**

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.



Project Name: HOTSPOT REMOVAL Project Number: 0071-013-325 
 Lab Number:
 L1320249

 Report Date:
 10/15/13

# **Case Narrative (continued)**

Report Submission

This final report replaces the partial report issued October 14, 2013, and includes the results of all requested analyses. The project name has been amended.

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

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

609 Standow Kelly Stenstrom

Authorized Signature:

Title: Technical Director/Representative

Date: 10/15/13



# METALS



Serial_No:10151313:39

Project Name:	HOTSI	POT REM	OVAL				Lab Nu	mber:	L13202	49	
Project Number:	0071-0	)13-325					Report	Date:	10/15/1	3	
				SAMPL	E RES	ULTS					
Lab ID:	L13202	249-01					Date Co	ollected:	10/08/1	3 15:30	
Client ID:	O45S						Date Re	eceived:	10/09/1	3	
Sample Location:	TECUN	MSEH					Field Pr	ep:	Not Spe	ecified	
Matrix:	Soil										
Percent Solids:	84%					Dilution	Data	Data	Bron	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Westb	orough L	.ab									
Arsenic, Total	96		mg/kg	9.1	1.8	20	10/10/13 10:1:	3 10/11/13 16:01	EPA 3050B	1,6010C	MG



Project Name:HOTSPOT REMOVALProject Number:0071-013-325

 Lab Number:
 L1320249

 Report Date:
 10/15/13

# Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytica Method	Analyst
Total Metals - Westborou	igh Lab	for sample(s	s): 01	Batch: V	VG64280	8-1				
Arsenic, Total	ND		mg/kg	0.40	0.08	1	10/10/13 10:13	10/11/13 12:51	1,6010C	MG

# **Prep Information**

Digestion Method: EPA 3050B



# Lab Control Sample Analysis

Batch Quality Control

 Lab Number:
 L1320249

 Report Date:
 10/15/13

Project Name:HOTSPOT REMOVALProject Number:0071-013-325

LCS LCSD %Recovery %Recovery %Recovery Limits **RPD Limits** Parameter Qual RPD Qual Qual Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG642808-2 SRM Lot Number: 0518-10-02 Arsenic, Total 94 81-119 --



		Matrix Spike Analysis Batch Quality Control		
Project Name:	HOTSPOT REMOVAL		Lab Number:	L1320249
Project Number:	0071-013-325		Report Date:	10/15/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Recover Qual Limits	y RPD	Qual	RPD Limits
Total Metals - Westborough Lab	Associated	sample(s): 01	QC Ba	tch ID: WG642	808-4	QC Sam	ole: L1320242-0	02 Client ID: M	S Sample	Э	
Arsenic, Total	2.3	9.85	12	98		-	-	75-125	-		35



Project Name:	HOTSPOT REMOVAL	L	ab Duplicate Analy	La	ab Numbe	er: L1320249	L1320249	
Project Number:	0071-013-325		Batch Quality Control	R(	eport Date	e: 10/15/13	10/15/13	
rameter		Native Sample	Dunlicate Sample	Units	RPD	Qual	RPD Limits	

Parameter	Native Sample	Duplic	Duplicate Sample		RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s):	01 QC Batch ID:	WG642808-3	QC Sample:	L1320242-02	Client ID:	DUP Sample	9
Arsenic, Total	2.3		2.0	mg/kg	14		35



# INORGANICS & MISCELLANEOUS



								Serial_No:10 [,]	o:10151313:39		
Project Name:	HOTSPOT I	REMOVA	L				Lab N	lumber:	L1320249		
Project Number:	0071-013-325						Repo	rt Date:	10/15/13		
				SAMPLE	RESUL	TS					
Lab ID:	L1320249-0	1					Date	Collected:	10/08/13 15:3	0	
Client ID:	O45S						Date Received: 10/09/13				
Sample Location:	TECUMSEH						Field	Prep:	Not Specified		
Matrix:	Soil										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
General Chemistry - We	stborough Lat	)									
Solids, Total	83.8		%	0.100	NA	1	-	10/10/13 02:31	30,2540G	RT	



Demonster		Notive Comula	Duralizata Comula	L lucito		Qual	
Project Number:	0071-013-325				R	eport Date	:: 10/15/13
Project Name:	HOTSPOT REMOVAL	L	ab Duplicate Analy Batch Quality Control	<b>SIS</b>	La	r: L1320249	

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Parameter	Native Sa	Imple	Duplicate Sal	mple Units	RPD	Qual	RPD LIMIts
General Chemistry - Westborough Lab Associated samp	le(s): 01	QC Batch ID:	WG642701-1	QC Sample: L1	319746-45 Cli	ent ID: DU	IP Sample
Solids, Total	80.6		82.0	%	2		20



			Serial_No:101	51313:39
Project Name:	HOTSPOT REMOVAL		Lab Number:	L1320249
Project Number:	0071-013-325		Report Date:	10/15/13
	Sample I	Receipt and Container Information		
Were project spec	ific reporting limits specified?	YES		
Reagent H2O Pre	eserved Vials Frozen on: N	A		
Cooler Informatio	on Custody Seal			
Cooler				

Temp

2.4

2.4

Cooler

А

А

рΗ

N/A

N/A

deg C Pres Seal

Υ

Υ

Absent

Absent

Analysis(*)

HOLD()

AS-TI(180),TS(7)

Page 14 of 22

А

**Container Information** 

**Container ID** 

L1320249-01A

L1320249-02A

Absent

**Container Type** 

Amber 120ml unpreserved

Amber 120ml unpreserved



# Serial_No:10151313:39

# Project Name: HOTSPOT REMOVAL

Project Number: 0071-013-325

# Lab Number: L1320249

# **Report Date:** 10/15/13

### Acronyms

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

GLOSSARY

- EPA Environmental Protection Agency.
- LCS Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD Laboratory Control Sample Duplicate: Refer to LCS.
- LFB Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- MDL Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MSD Matrix Spike Sample Duplicate: Refer to MS.
- NA Not Applicable.
- NC Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NI Not Ignitable.
- RL Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
- SRM Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

#### Footnotes

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

#### Terms

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

#### Data Qualifiers

- A Spectra identified as "Aldol Condensation Product".
- B The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C -Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with "J" Qualifiers



Serial_No:10151313:39

# Project Name: HOTSPOT REMOVAL

Project Number: 0071-013-325

Lab Number: L1320249

**Report Date:** 10/15/13

#### Data Qualifiers

- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- **P** The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- J Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.



Project Name:HOTSPOT REMOVALProject Number:0071-013-325

 Lab Number:
 L1320249

 Report Date:
 10/15/13

# REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

# LIMITATION OF LIABILITIES

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

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



# **Certificate/Approval Program Summary**

Last revised October 1, 2013 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

# Connecticut Department of Public Health Certificate/Lab ID: PH-0574. NELAP Accredited Solid Waste/Soil.

*Drinking Water* (<u>Inorganic Parameters</u>: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. <u>Organic Parameters</u>: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). <u>Microbiology Parameters</u>: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

*Wastewater/Non-Potable Water* (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. <u>Organic Parameters</u>: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. <u>Microbiology Parameters</u>: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

*Solid Waste/Soil* (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. <u>Organic Parameters</u>: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270). )

# State of Illinois Certificate/Lab ID: 003155. NELAP Accredited.

*Drinking Water* (Inorganic Parameters: SM2120B, 2320B, 2510B, 2540C, SM4500CN-CE, 4500F-C, 4500H-B, 4500NO3-F, 5310C, EPA 200.7, 200.8, 245.1, 300.0. <u>Organic Parameters</u>: EPA 504.1, 524.2.)

*Wastewater/Non-Potable Water* (Inorganic Parameters: SM2120B, 2310B, 2320B, 2340B, 2510B, 2540B, 2540C, 2540D, SM4500CL-E, 4500CN-E, 4500F-C, 4500H-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-E, 4500S-D, 4500SO3-B, 5210B, 5220D, 5310C, 5540C, EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1. <u>Organic Parameters</u>: EPA 608, 624, 625.)

*Hazardous and Solid Waste* (Inorganic Parameters: EPA 1010A, 1030, 1311, 1312, 6010C, 6020A, 7196A, 7470A, 7471B, 9012B, 9014, 9038, 9040C, 9045D, 9050A, 9065, 9251. <u>Organic Parameters</u>: 8011 (NPW only), 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8315A, 8330.)

# Maine Department of Human Services Certificate/Lab ID: 2009024.

*Drinking Water* (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2120B, 2130B, 2320B, 2510C, 2540C, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, 5310C, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. <u>Organic Parameters</u>: 504.1, 524.2.)

*Wastewater/Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664A, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 8315A, 9010C, SM2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-C, 4500NH3-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-B, 4500P-E, 4500S2-D, 4500SO3-B, 5540C, 5210B, 5220D, 5310C, 9010B, 9030B, 9040C, 7470A, 7196A, 2340B, EPA 200.7, 6010C, 200.8, 6020A, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. <u>Organic Parameters</u>: 608, 624, 625, 8011, 8081B, 8082A, 8330, 8151A, 8260C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

*Solid Waste/Soil* (<u>Inorganic Parameters</u>: 9010B, 9012A, 9014, 9040B, 9045C, 6010C, 6020A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B, 9038, 9251. <u>Organic Parameters</u>: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260C, 8270D, 8330, 8151A, 8081B, 8082A, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035.)

# Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

*Drinking Water* (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B. <u>Organic Parameters</u>: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. <u>Microbiology Parameters</u>: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water* (Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

<u>Organic Parameters</u>: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. <u>Microbiology Parameters</u>: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services <u>Certificate/Lab ID</u>: 200307. NELAP Accredited. Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. <u>Organic Parameters</u>: 504.1, 524.2.)

*Non-Potable Water* (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. <u>Organic Parameters</u>: SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

*Solid & Chemical Materials* (<u>Inorganic Parameters</u>: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. <u>Organic Parameters</u>: SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Hampshire Department of Environmental Services <u>Certificate/Lab ID</u>: 2064. NELAP Accredited. Drinking Water (<u>Organic Parameters</u>: EPA 524.2: Di-isopropyl ether (DIPE), Ethyl-t-butyl ether (ETBE), Tert-amyl methyl ether (TAME)).

Non-Potable Water (Organic Parameters: EPA 8260C: 1,3,5-Trichlorobenzene. EPA 8015C(M): TPH.)

Solid & Chemical Materials (Organic Parameters: EPA 8260C: 1,3,5-Trichlorobenzene.)

## New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

*Drinking Water* (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. <u>Organic Parameters</u>: EPA 332, 504.1, 524.2.)

*Non-Potable Water* (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500CI-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310C, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, 4500SO4-E, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. <u>Organic Parameters</u>: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 5030C, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Page Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 2030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D,

9050A, 9065, 9251. <u>Organic Parameters</u>: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5030C, 5035L, 5035H, NJ EPH.)

## New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

*Drinking Water* (<u>Inorganic Parameters</u>: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.1, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. <u>Organic Parameters</u>: EPA 524.2, 504.1.)

*Non-Potable Water* (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2340B, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010C, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 8315A, 3005A, 9010C, 9030B. <u>Organic Parameters</u>: EPA 624, 8260C, 8270D, 8270D-SIM, 625, 608, 8081B, 8151A, 8330A, 8082A, EPA 3510C, 5030B, 5030C, 8015C, 8011.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1010A, 1030, EPA 6010C, 6020A, 7196A, 7471B, 8315A, 9012B, 9014, 9065, 9050A, 9038, 9251, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. <u>Organic Parameters:</u> EPA 8260C, 8270D, 8270D-SIM, 8015C, 8081B, 8151A, 8330A, 8082A, 3540C, 3546, 3580A, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources <u>Certificate/Lab ID</u>: 666. (<u>Inorganic</u> <u>Parameters</u>: SM2310B, 2320B, 4500CI-E, 4500Cn-E, 9012B, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311,1312. <u>Organic Parameters</u>: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

*Drinking Water Program* <u>Certificate/Lab ID</u>: 25700. (Inorganic Parameters: Chloride EPA 300.0. <u>Organic Parameters</u>: 524.2)

Pennsylvania Department of Environmental Protection <u>Certificate/Lab ID</u>: 68-03671. *NELAP Accredited. Drinking Water* (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. <u>Organic Parameters</u>: EPA 524.2, 504.1)

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500CI-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. <u>Organic Parameters</u>: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

*Solid & Hazardous Waste* (<u>Inorganic Parameters</u>: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. <u>Organic Parameters</u>: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health <u>Certificate/Lab ID</u>: LAO00065. *NELAP Accredited via NJ-DEP.* Refer to MA-DEP Certificate for Potable and Non-Potable Water. Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476. NELAP Accredited.

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2⁻ D, 510C, 5210B, 5220D, 5310C, 5540C. <u>Organic Parameters</u>: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services <u>Certificate/Lab ID</u>: 460195. *NELAP Accredited. Drinking Water* (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.1, 2320B, 4500F-C, 4500NO3-F, 4500H+B, 5310C. <u>Organic Parameters</u>: EPA 504.1, 524.2.)

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 351.2, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 2340B, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-Page 00-1-X, 7196A, 7470A, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C,

4500NH3-H, 4500NO2-B, 4500NO3-F, 4500 SO3-B, 4500H-B, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C, 9010Cm 9030B, 9040C. <u>Organic Parameters</u>: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, )

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9010C, 9012B, 9030B, 9014, 9038, 9040C, 9045D, 9251, 9050A, 9065. <u>Organic Parameters</u>: EPA 5030B, 5035, 3540C, 3546, 3550B, 3580A, 3620C, 3630C, 6020A, 8260B, 8260C, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

**Department of Defense, L-A-B** <u>Certificate/Lab ID</u>: L2217. *Drinking Water* (<u>Inorganic Parameters</u>: SM 4500H-B. <u>Organic Parameters</u>: EPA 524.2, 504.1.)

*Non-Potable Water* (<u>Inorganic Parameters</u>: EPA 200.7, 200.8, 6010C, 6020A, 245.1, 7470A, 9040B, 9010B, 180.1, 300.0, 332.0, 6860, 351.1, 353.2, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500Norg-C, 4500NO3-F, 5310C, 2130B, 2320B, 2340B, 2540C, 5540C, 3005A, 3015, 9056, 7196A, 3500-Cr-D. <u>Organic Parameters</u>: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A, 8082A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

*Solid & Hazardous Waste* (<u>Inorganic Parameters</u>: EPA 200.7, 6010C, 6020A, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9040B, 9045C, 9010C, 9012B, 9251, SM3500-CR-D, 4500CN-CE, 2540G, <u>Organic Parameters</u>: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A/B-prep, 8082A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

# The following analytes are not included in our current NELAP/TNI Scope of Accreditation:

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether. **EPA 8260B:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8260 Non-potable water matrix:** Iodomethane (methyl iodide), Methyl methacrylate. **EPA 8260 Soil matrix:** Tert-amyl methyl ether (TAME), Diisopropyl ether (DIPE), Azobenzene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine. **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.
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## **APPENDIX G**

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