New York State Department of Environmental Conservation Division of Materials Management Albany, New York 12233-7253

RECEIVED

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REGION IV HEADQUARTERS SCHENECTADY, NY 12306

2019

REGISTERED OR PERMITTED FACILITY ANNUAL REPORT

COMPOSTING

(DO NOT USE THIS FORM FOR BIOSOLIDS COMPOSTING)

6 NYCRR Part 361-3.2

This annual report is for the year of operation from January 01, 2019 to December 31, 2019

Annual Report Form Due: No Later than March 1, 2020

This form may be used for all composting facilities under section 361-3.2 of the Part 360 series except for biosolids composting. Biosolids composting requires the submission of a different annual report form. Forms for all solid waste management facilities can be found at http://www.dec.ny.gov/chemical/52706.html. If you have any questions on this form, please e-mail organicrecycling@dec.ny.gov.

Failure to provide the required information requested is a violation of Environmental Conservation Law. Timely submission of a properly completed form to the Department's Regional Office that has jurisdiction over your facility and to the Department's Central Office is required to meet the Annual Report requirements of 6 NYCRR Part 360 series.

Attach additional sheets if space on the pages is insufficient or supplementary information is required or appropriate.

FACILITY NAME: Troy Sand and Gravel - Kinderhook Mine
SW FACILITY ACTIVITY NUMBER(S): (Ex. 02P20099)
COUNTY WHERE FACILITY IS LOCATED: Columbia County

DEC USE ONLY

Region:

SWIMS:

MATRIX:

Date Reviewed:

Reviewed By:

Data Entered:

COMPOST FACILITY ANNUAL REPORT SECTION 1 – FACILITY INFORMATION



FEB 2 8 2020

REGION IV HEADQUARTERS

	FACILITY INFORMATION					
FACILITY NAME:						
Troy Sand & Gravel Co Inc	Kinderhook Pit					
FACILITY LOCATION ADDRESS:	FACILITY CITY: STATE: ZIP CODE:					
Town of Kinderhook Rt 9	Kinderhook	Kinderhook NY				
FACILITY TOWN:	FACILITY COUNTY:			E NUMBER:		
Kinderhook	Columbia	(51	8) 423	3-1804		
NYSDEC REGION #: 4						
	CONTACT PHONE NUMBER	: :				
Carl Clemente	(518) 423-1804					
CONTACT EMAIL ADDRESS: carlc@b	ondedconcrete.co	m				
	OWNER INFORMATION					
OWNER NAME:	OWNER PHONE NUMBER:					
Troy Sand & Grave Co Inc	(518) 423-1804					
OWNER ADDRESS: PO Box 171	OWNER CITY: Watervliet		STATE:	ZIP CODE: 12189		
OWNER CONTACT:	OWNER CONTACT EMAIL	ADDRESS.	INT	12109		
Carl Clemente	carlc@bondedconc					
	OPERATOR INFORMATION					
OPERATOR NAME: Same as owner			3120 41			
	PREFERENCES					
Preferred address to receive correspondence: Other (provide):	Facility location address	O (Owner address			
Preferred email address: Facility Contact	Owner Contact					
Other (provide):						
Preferred individual to receive correspondence Other (provide):	9: Facility Contact (Owner	Owne	r Contact		
Did you operate in 2019? Yes; Completed No;	ete and submit Sections 1, 1: ociated with this solid waste m	nanagement a				

SECTION 2 - QUANTITY OF MATERIAL RECEIVED

Please report quantities received from January 01, 2019 to December 31, 2019

	Inputs	Quantity	Unit	Source(s)
	Leaves only		Choose Units	
ASTE	Grass Clippings		Choose Units	
YARD WASTE	Mixture of Grass and Leaves	7,000	Cubic Yards	Town of Kinderhook
	Brush (Small branches and limbs, <4 inch diameter)		Choose Units	
0	Source Separated Organics (Food scraps, soiled paper products, etc.)		Choose Units	
SSO	Food Processing Waste (brewery grains, grape pomace, etc.)		Choose Units	
	Crop Residues (Corn stalks, etc.)		Choose Units	
OTHER	Manure (including bedding)		Choose Units	
	Sawdust/Shavings		Choose Units	
	Animal Carcasses (road-kill, animal mortalities)		Choose Units	
	Paper Mill Residuals		Choose Units	
	Digestate		Choose Units	
	Other:		Choose Units	
INT	Woodchips		Choose Units	
BULKING AGENT	Sawdust		Choose Units	
BULKIN	Other:		Choose Units	

SECTION 3 – COMPOST PRODUCTION

WHAT IS THE PROCESS DETENTION TIME? Note: Total time material is processed, not Including storage time	90	days
COMPOST PRODUCED DURING THE YEAR:	7,000	_ cubic yards <i>or</i>
		_ tons
COMPOST DISTRIBUTED DURING THE YEAR:	4,000	_ cubic yards o <i>r</i>
		_ tons
QUANTITY CURRENTLY STOCKPILED: Note: Finished product stockpiled	3,000	_ cubic yards <i>or</i>
Note. I maneu product stockphed		_ tons
AGE OF OLDEST PRODUCT ON SITE:	3	_ months

SECTION 4 - COMPOST DISTRIBUTION

Use of Compost (landscaping, agriculture, highway, onsite, bagged, etc.)
Topsoil

If PERMITTED SSO composting facility, continue to Section #5 SSO – Source Separated Organics

ALL OTHER COMPOSTING FACILITIES, continue to Section #9

SECTION 5 – PATHOGEN AND VECTOR ATTRACTION REDUCTION

For permitted SSO composting facilities only. Check one method for each:

Pathogen Reduction 361-3.7(a)

Windrow Composting	
Aerated Static Pile Composting	
O In-vessel Composting	
Other (specify):	
	Vector Attraction Reduction 361-3.7(b)
38 % Volatile Solids Reduction	
SOUR	
Aerobic Process 14 days, ≥400	c, ≥45 C avg.

Attach operating and monitoring data to show compliance with methods chosen. Temperature data records should indicate when a pile was created, pile was moved, additional material was added and/or pile was turned.

SECTION 6 - FINISHED COMPOST ANALYSIS

For permitted SSOW composting facilities only. Please attach sampling analyses and laboratory reports as required under Part 360 or your permit. Copies of original laboratory results must be attached. All results, except pH and Total Solids, must be on a dry weight basis. See 361-3.9 Table 6 for pollutant limits and Table 5 for annual product testing frequency 361-3.9 Table 5.

Summarize data in table below or attached document. Print additional pages as needed.

Analysis Date ====>	Max. Conc. (mg/kg)
Arsenic (mg/kg)	41
Cadmium (mg/kg)	10
Chromium (mg/kg)	1,000
Copper (mg/kg)	1,500
Lead (mg/kg)	300
Mercury (mg/kg)	10
Molybdenum (mg/kg)	40
Nickel (mg/kg)	200
Selenium (mg/kg)	100
Zinc (mg/kg)	2,500
TKN (mg/kg)	
Ammonia Nitrogen (mg/kg)	
Nitrate (mg/kg)	
Total Phosphorus (mg/kg)	
Total Potassium (mg/kg)	
pH (s.u.)	
Total Solids(%)	
Total Volatile Solids (%)	
Fecal Coliform (MPN/g)	<1,000 MPN/g
Salmonella (MPN/4g)	<3MPN/4g
Other	

SECTION 7 -SAMPLE MANAGEMENT PLAN

For permitted SSO composting facilities only. Describe the number, frequency and location of samples taken
Include a diagram showing all sampling locations.
SECTION 8 – ATTACHMENTS (IF REQUIRED) Permitted SSO composting facilities, please attach: - Temperature monitoring and detention time data.
 Sample analyses laboratory reports. Any additional reporting requirements.
Do you have a variance to the Part 360 permit requirements? Yes No
If yes, please describe:

SECTION 9 – UNAUTHORIZED WASTE

Has unauthorized solid waste been received at the composting facility during the reporting period? Yes No
If yes, give information below for each incident (attach additional sheets if necessary):
SECTION 10 PROBLEMS/COMPLAINTS
Describe any operational problems or neighbor complaints arising from the composting operation and include any methods used to remedy the situations. This should include odor complaints, marketing difficulties, major equipment failure, etc.
No Complaints.
SECTION 11 - QUESTIONS
Please identify any questions or concerns that you would like the Department to answer or consider:

SECTION 12 - FOOD DONATION & FOOD SCRAPS RECYCLING LAW

If you are registered or permitted to compost food scraps please complete the following. For all other operations that are interested in processing food scraps, please contact your DEC regional office to determine what is required.

In 2019, New York State passed the Food Donation & Food Scraps Recycling law. Effective January 1, 2022, large generators of food scraps (defined as generating an annual average of two tons per week or more) must donate excess food and recycle all remaining food scraps if they are within 25 miles of an organics recycler (composting facility, anaerobic digester, etc.). Examples of large generators include: large restaurants, grocery stores, hotels, colleges, etc. For more information visit: https://www.dec.ny.gov/chemical/114499.html

Contact Information

Under this legislation, DEC is responsible for providing a list of organics recyclers (compost facilities, anaerobic digesters, etc.) to large generators so they can determine available food scraps recycling opportunities in their area.

You will be included in this listing if you hold a permit or registration for the composting of source separated organics or food scraps. This will educate both large generators and haulers of food scraps that you are an available composter in their area.

Please provide the following information to include in the listing.	
Name of Business:	
Business Phone Number:	
Business Email:	
Business Website:	
I would like to opt out of DEC listing my facility as an available food scraps recycler it relates to the Food Donation and Food Scraps Recycling law.	for large generators as
Assessing Your Food Scraps Recycling Capacity	
DEC is responsible for assessing available food scraps recycling capacity across New from your operation will help us do this. Please complete the following section to calcul excess food scraps your operation will have the capability to process in 2022 . Please s (wet tons or cubic yards).	ate the amount of
A. Amount of foods scraps projected to be processed in 2020:	Choose Unit
B. Amount of foods scraps projected to be processed in 2022:	6
* Note: You will not be required to process this quantity of material, these estimates will DEC in capacity planning across the state in preparation for the Food Donation and Follow effective January 1, 2022.	
Questions?	DEC USE ONLY
	Excess Capacity:

SECTION 13 - CERTIFICATION

The Owner or Operator must sign, date and submit one completed form with an original signature to the appropriate Regional Office (See attachment for Regional Office addresses and Contacts.)

The Owner or Operator must also submit one copy by email, fax or mail to:

NYS Department of Environmental Conservation Bureau of Waste Reduction and Recycling - Annual Report 625 Broadway - 9th Floor Albany, New York 12233-7253

> Phone: 518-402-8706 Fax 518-402-9024 Email address: organicrecycling@dec.ny.gov

I certify, under penalty of law, that the information that will be used to determine compliance with the requirements in Subpart 361-3 of 6 NYCRR Part 361 has been prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that false statement made herein are punishable pursuant to section 210.45 of the penal law.

Carl Clemente	Owner
Name (Print)	Title (Print)
carlclemente@bond	ledconrete.com
E	mail (Print)
PO Box 171	Watervliet
Address	City
NY, 12189	₆ 518,423, 180 4
State and Zip	Phone Number
HMENTS: ONO OYES (IF YES, LIS' nished Compost Analysis	,



ATLANTIC TESTING LABORATORIES

Albany 22 Corporate Drive Clifton Park, NY 12065 518-383-9144 (T) 518-383-9166 (F)

WBE certified company

February 03, 2020

Troy Sand & Gravel Company, Inc. 34 Grange Road PO Box 171 Watervliet. NY 12189

Attn: Brendan Clemente

Re: Soil Laboratory Testing

2009 Blanket LSA Clifton Park, New York

ATL Report No.: AT003SL-828-01-20

Dear Brendan,

On January 06, 2020, our representative obtained one sample of Compost material from Kinderhook Pit and delivered it to our Albany, New York facility for testing. A Moisture, Ash, and Organic Matter of Peat and Other Organic Soils Test in accordance with ASTM D 2974 was performed on this sample. The results follow:

PERCENT ORGANICS, ASH CONTENT, AND MOISTURE CONTENT ASTM D 2974

ATL Sample No.	Organics	Project Specification	Furnace Temperature (°C)		Project Specification	Moisture (%)	Test Method A	Oven Drying Temperature
AT003S-828-1	49.1		440	50.9		,,,,	Oven-Dried	110

Please contact our office should you have any questions or if we may be of further service.

Sincerely,

ATTANTIC TESTING LABORATORIES, Limited

Robert E. Field Laboratory Manager bfield@atlantictesting.com

REF/RMI

cc: Brendan Clemente, Troy Sand & Gravel Company, Inc., 34 Grange Road, PO Box 171, Watervliet NY 12189
Carl Clemente, Troy Sand & Gravel Company, Inc., 34 Grange Road, PO Box 171, Watervliet NY 12189
Jude Clemente, Troy Sand & Gravel Company, Inc., 34 Grange Road, PO Box 171, Watervliet NY 12189
Nick Dinova, Troy Sand & Gravel Company, Inc., 34 Grange Road, PO Box 171, Watervliet NY 12189



ANALYTICAL REPORT

Lab Number:

L2003636

Client:

Atlantic Testing Laboratories, Limited

22 Corporate Drive Clifton Park, NY 12065

ATTN:

Robert E. Field

Phone:

(518) 383-9144

Project Name:

LSA

Project Number:

AT003

Report Date:

01/28/20

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

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

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

Project Name:

LSA

Project Number:

AT003

Lab Number:

L2003636

Report Date:

01/28/20

Alpha Sample ID

L2003636-01

Client ID

828 KINDERHOOK FIT

Matrix SOIL

Sample Location

Not Specified

Collection

Date/Time

01/06/20 10:00

01/07/20

Receive Date

Project Name:LSALab Number:L2003636Project Number:AT003Report Date:01/28/20

Case Narrative

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

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

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

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

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

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



Project Name: Project Number: LSA

AT003

Lab Number:

L2003636

Report Date:

01/28/20

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.

Sample Receipt

The sample collection date and time were specified by the client.

PCBs

L2003636-01: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the 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.

Kelly Stenstrom

Authorized Signature:

Title: Technical Director/Representative

Date: 01/28/20



ORGANICS



PCBS



OCIRG_110.01202010.00

Project Name: LSA Lab Number: L2003636

Project Number: AT003 Report Date: 01/28/20

SAMPLE RESULTS

Lab ID: L2003636-01 Date Collected: 01/06/20 10:00

Client ID: 828 KINDERHOOK PIT Date Received: 01/07/20
Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 01/08/20 17:24

Analytical Date: 01/09/20 22:04 Cleanup Method: EPA 3665A
Analyst: AD Cleanup Date: 01/09/20

Percent Solids: 37% Cleanup Method: EPA 3660B Cleanup Date: 01/09/20

Parameter	Result	Qualifier	Units	RL	MDL E	Dilution Factor	Column
Polychlorinated Biphenyls by G	C - Westborough Lab						
Aroclor 1016	ND		ug/kg	130	11.6	1	A
Arodor 1221	ND		ug/kg	130	13.0	1	A
Arodor 1232	ND		ug/kg	130	27.6	1	A
Arodor 1242	ND		ug/kg	130	17.6	1	A
Arodor 1248	ND		ug/kg	130	19.5	1	A
Arodor 1254	ND		ug/kg	130	14.2	1	A
Arodor 1260	ND		ug/kg	130	24.1	1	A
Arodor 1262	ND		ug/kg	130	16.5	1	A
Arodor 1268	ND		ug/kg	130	13.5	1	A
PCBs, Total	ND		ug/kg	130	11.6	1	A
Surrogate			% Recovery	Qualifier	Accepta Criter		umn
2,4,5,6-Tetrachloro-m-xylene			73		30-1	50	A
Decachlorobiphenyl			53		30-1	50	A
2,4,5,6-Tetrachloro-m-xylene			76		30-1	50	В
Decachlorobiphenyl			67		30-1	50	В



Project Name: LSA **Project Number:**

AT003

Lab Number:

L2003636

Report Date:

01/28/20

Method Blank Analysis Batch Quality Control

Analytical Method:

1,8082A

Analytical Date:

01/08/20 17:00

Analyst:

CW

Extraction Method: EPA 3546

Extraction Date: Cleanup Method: 01/08/20 09:01

Cleanup Date: Cleanup Method: **EPA 3665A** 01/08/20

Cleanup Date:

EPA 3660B 01/08/20

Parameter	Result	Qualifier	Units	RL	MOL	Column
Polychlorinated Biphen	yls by GC - Westborough	Lab for s	ample(s):	01 Batch:	WG132789	99-1
Aroclor 1016	ND		ug/kg	33.2	2.95	A
Arodor 1221	ND		ug/kg	33.2	3.33	A
Aroctor 1232	ND		ug/kg	33.2	7.04	A
Aroclor 1242	ND		ug/kg	33.2	4.48	A
Aroclor 1248	ND		ug/kg	33.2	4.98	A
Aroclor 1254	ND		ug/kg	33.2	3.63	A
Aroclor 1260	ND		ug/kg	33.2	6.14	A
Aroclor 1262	ND		ug/kg	33.2	4.22	A
Arocior 1268	ND		ug/kg	33.2	3.44	A
PCBs, Total	ND		ug/kg	33.2	2.95	A

			e	
Surrogate	%Recovery	Qualifier	Criteria	Column
2,4,5,6-Tetrachioro-m-xylene	93		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachioro-m-xylene	99		30-150	В
Decachlorobiphenyl	86		30-150	В



Lab Control Sample Analysis Batch Quality Control

LSA

Project Number: AT003

Project Name:

Lab Number:

L2003636

Report Date:

	LCS	LCSD		%Recovery		RPD	
Parameter	%Recovery Qual	%Recovery	Qual	Limits	RPD	Qual Limits	Column
Polychlorinated Biphenyls by GC	- Westborough Lab Associated san	mple(s): 01 Batch:	WG1327899-	2 WG1327899-3			
Aroclor 1016	82	82		40-140	0	50	Α
Aroclor 1260	77	76		40-140	1	50	A

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria Coiumn
2,4,5,6-Tetrachloro-m-xylene	90	89	30-150 A
Decachiorobiphenyl	83	81	30-150 A
2,4,5,6-Tetrachloro-m-xylene	93	90	30-150 B
Decachlorobiphenyl	99	78	30-150 B

METALS



UCHAL_110.01202010.00

Project Name:

LSA

Lab Number:

L2003636

Project Number:

AT003

Report Date:

01/28/20

SAMPLE RESULTS

Lab ID:

L2003636-01

Client ID:

828 KINDERHOOK PIT

Sample Location:

Not Specified

Date Collected:

01/06/20 10:00

Date Received:

01/07/20

Field Prep:

Not Specified

Sample Depth:

Matrix:

Soil

	000
de.	379

Percent Solids:	37%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Man	sfield Lab	the desire			See See		1,000	4.75			
Cadmium, Total	0.230	J	mg/kg	1.04	0.102	1	01/08/20 20:30	01/09/20 11:20	EPA 3050B	1,6010D	LC
Chromium, Total	6.43		mg/kg	1.04	0.100	1	01/08/20 20:30	01/09/20 11:20	EPA 3050B	1,6010D	LC
Copper, Total	27.8		mg/kg	1.04	0.269	1	01/08/20 20:30	01/09/20 11:20	EPA 3050B	1,6010D	LC
Lead, Total	17.0		mg/kg	5.22	0.280	1	01/08/20 20:30	01/09/20 11:20	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.172	0.112	1	01/09/20 04:49	5 01/09/20 14:02	EPA 7471B	1,7471B	GD
Nickel, Total	5.18		mg/kg	2.61	0.252	1	01/08/20 20:30	01/09/20 11:20	EPA 3050B	1,6010D	LC
Potassium, Total	5540		mg/kg	261	15.0	1	01/08/20 20:30	01/09/20 11:20	EPA 3050B	1,6010D	LC
Zinc, Total	68.5		mg/kg	5.22	0.306	1	01/08/20 20:30	01/09/20 11:20	EPA 3050B	1,6010D	LC



Project Name:

LSA

Project Number: AT003

Lab Number:

L2003636

Report Date:

01/28/20

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansl	field Lab for sample(s):	01 Batch:	WG1:	328108-1	de la la companya de	and State of the			
Cadmium, Total	ND	mg/kg	0.400	0.039	1	01/08/20 20:30	01/09/20 10:14	1,6010D	LC
Chromium, Total	ND	mg/kg	0.400	0.038	1	01/08/20 20:30	01/09/20 10:14	1,6010D	LC
Copper, Total	ND	mg/kg	0.400	0.103	1	01/08/20 20:30	01/09/20 10:14	1,6010D	LC
Lead, Total	ND	mg/kg	2.00	0.107	1	01/08/20 20:30	01/09/20 10:14	1,6010D	LC
Nickel, Total	ND	mg/kg	1.00	0.097	1	01/08/20 20:30	01/09/20 10:14	1,6010D	LC
Potassium, Total	ND	mg/kg	100	5.76	1	01/08/20 20:30	01/09/20 10:14	1,60100	LC
Zinc, Total	ND	mg/kg	2.00	0.117	1	01/08/20 20:30	01/09/20 10:14	1,6010D	LC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared		Analytical Method	
Total Metals - Man	sfield Lab for sample(s):	01 Batch:	WG13	328213-	WE THAT	A A			
Mercury, Total	ND	mg/kg	0.083	0.054	1	01/09/20 04:45	01/09/20 13:30	1,74718	GD

Prep Information

Digestion Method: EPA 7471B



Lab Control Sample Analysis Batch Quality Control

Lab Number:

L2003636

Project Number: AT003

Project Name:

LSA

Report Date: 01/28/20

Parameter	LCS %Recovery	Qual %	LCSD Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample	(s): 01 Batch:	WG1328108-2	SRM Lot N	Number: D1	05-540			3311
Cadmium, Total	98				75-125			
Chromium, Total	90				70-130			
Copper, Total	95				75-125			
Lead, Total	90				71-128			
Nickel, Total	94				70-131			
Potassium, Total	64				60-140			
Zinc, Total	91				70-130			
Total Metals - Mansfield Lab Associated sample	(s): 01 Batch:	WG1328213-2	SRM Lot N	lumber: D1	05-540			通用上部 机型
Mercury, Total	96				60-141	•		

Matrix Spike Analysis Batch Quality Control

Project Name:

LSA

Project Number: AT003

Lab Number:

L2003636

Report Date:

arameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recover	RPD	RPD Quaj Limits
otal Metals - Mansfield Lab	Associated san	nple(s): 01	QC Batch	ID: WG132810	08-3 W	31328108-4	QC Sample	L2000	0650-02	Client ID:	MS Sample
Cadmium, Total	0.656J	4.52	4.92	109		4.72	105		75-125	4	20
Chromium, Total	12.0	17.7	28.1	91		27.1	85		75-125	4	20
Copper, Total	39.8	22.2	62.4	102		56.7	76		75-125	10	20
Lead, Total	289	45.2	275	0	Q	278	0	Q	75-125	1	20
Nickel, Total	10.5	44.3	51.7	93		51.0	92		75-125		20
Potassium, Total	483	886	1350	98		1380	102		75-125	2	20
Zinc, Total	507	44.3	416	0	Q	354	0	Q	75-125	16	20
otal Metals - Mansfield Lab	Associated san	nple(s): 01	QC Batch	ID: WG132821	13-3 W	G1328213-4	QC Sample	L2000	650-02	Client ID:	MS Sample
Mercury, Total	0.304	0.146	0.585	193	Q	0.638	229	Q	80-120	9	20

INORGANICS & MISCELLANEOUS



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Project Name:

LSA

Project Number: AT003

Lab Number:

L2003636

Report Date:

01/28/20

SAMPLE RESULTS

Lab ID:

L2003636-01

Client ID:

828 KINDERHOOK PIT

Sample Location: Not Specified

Date Collected:

01/06/20 10:00

Date Received:

01/07/20

Field Prep:

Not Specified

Sample Depth:

Matrix:

Soil

TTICALITY.	0011									
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analysi
otal Organic Carbon - Ma	ansfield Lab		REFEREN	4.1	SALE N	NE FOR				
"otal Organic Carbon (Rep1)	15.2		%	0.010	0.010	1		01/13/20 14:16	1,9060A	SP
*otal Organic Carbon (Rep2)	17.5		%	0.010	0.010	1	•	01/13/20 14:16	1,9060A	SP
"otal Organic Carbon (Average)	16.4		%	0.010	0.010	1	•	01/13/20 14:16	1,9060A	SP
eneral Chemistry - West	borough Lat)								
Solids, Total	36.5		%	0.100	NA	1	•	01/08/20 11:05	121,2540G	RI
iolids, Total Volatile	48		%	0.10	0.10	1		01/13/20 06:30	121,2540G	DW
H (H)	7.9		SU	-	NA	1		01/08/20 11:15	1,9045D	JA
litrogen, Ammonia	28		mg/kg	19	7.1	1	01/10/20 03:15	01/10/20 20:50	121,4500NH3-BH	AT
litrogen, Nitrate	1.3	J	mg/kg	2.4	0.63	1	•	01/09/20 08:08	121,4500NO3-F	MR
iltrogen, Total Kjeldahl	13000		mg/kg	380	80.	1	01/10/20 03:36	01/10/20 19:25	121,4500NH3-H	AT
hosphorus, Total	1600		mg/kg	68	23.	5	•	01/09/20 09:30	121,4500P-E	SD



Project Name: LSA

Project Number: AT003

Lab Number:

L2003636

Report Date:

01/28/20

Method Blank Analysis Batch Quality Control

Parameter	Result Q	ualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
ieneral Chemistry - West	borough Lab	for sam	ple(s): 01	Batch	: WG13	28265-1			3	
trogen, Nitrate	ND		mg/kg	1.0	0.03	1	•	01/09/20 07:54	121,4500NO3-l	- MR
otal Organic Carbon - M	ansfield Lab	for samp	ole(s): 01	Batch:	WG132	28366-1		3 33		
stal Organic Carbon (Rep1)	NO		%	0.010	0.010	1		01/13/20 09:40	1,9060A	SP
stal Organic Carbon (Rep2)	ND		%	0.010	0.010	1	44	01/13/20 09:40	1,9060A	SP
stal Organic Carbon (Average)	ND		%	0.010	0.010	1	•	01/13/20 09:40	1,9060A	SP
eneral Chemistry - West	borough Lab	for sam	ple(s): 01	Batch	: WG13	28585-1			THE STATE OF THE S	
trogen, Total Kjeldahl	ND		mg/kg	150	0.02	1	01/10/20 03:36	01/10/20 19:22	121,4500NH3-H	TA .
eneral Chemistry - West	borough Lab	for sam	nple(s): 01	Batch	: WG13	28590-1				
trogen, Ammonia	NO		mg/kg	7.5	0.02	1	01/10/20 03:15	01/10/20 20:46	121,4500NH3-B	H AT
eneral Chemistry - West	borough Lab	for sam	pie(s): 01	Batch	: WG13	29379-1		1217		
xlids, Total Volatile	ND		%	0.10	0.10	1		01/13/20 06:30	121,2540G	DW
eneral Chemistry - West	borough Lab	for sam	ple(s): 01	Batch	: WG13	34504-1				
nosphorus, Total	ND		mg/kg	5.0	1.7	1		01/09/20 09:30	121,4500P-E	SD

Lab Control Sample Analysis Batch Quality Control

Project Name:

LSA

Project Number: AT003

Lab Number:

L2003636

Report Date:

Parameter	LCS %Recovery Qu	LCSD al %Recovery Qua	%Recovery Limits	RPD	Qual RPD Limits
General Chemistry - Westborough Lab Ass	ociated sample(s): 01	Batch: WG1327925-1			
рН	100	-	99-101	•	
General Chemistry - Westborough Lab Ass	ociated sample(s): 01	Batch: WG1328265-2	P / 2 E S	t is	
Nitrogen, Nitrate	105		90-110	•	20
Total Organic Carbon - Mansfield Lab Asso	ciated sample(s): 01	Batch: WG1328366-2			
Total Organic Carbon (Rep1)	100		75-125	•	25
Total Organic Carbon (Rep2)	104	•	75-125		25
Total Organic Carbon (Average)	102	da ang signif may sa minganggang magina paori sa sa pala 1909	75-125	•	25
General Chemistry - Westborough Lab Ass	ociated sample(s): 01	Batch: WG1328585-2			机械电影图片 軍
Nitrogen, Total Kjeldahl	102	e	83-111	•	26
General Chemistry - Westborough Lab Ass	ociated sample(s): 01	Batch: WG1328590-2	La Seculo	36 E	ALC: NO FEE
Nitrogen, Ammonia	101	•	83-115		20
General Chemistry - Westborough Lab Ass	ociated sample(s): 01	Batch: WG1334504-2			
Phosphorus, Total	85		52-148	•	20

Matrix Spike Analysis Batch Quality Control

Project Name:

LSA

Project Number: AT003

Lab Number:

L2003636

Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westbor	ough Lab Asso	ciated samp	ole(s): 01	QC Batch ID: V	WG1328	265-4	QC Sample: L20	00575	-01 Client	ID: MS	Samp	le
Nitrogen, Nitrate	1.4J	200	180	80			-		80-120	-	. , .,	20
Total Organic Carbon - Mansi Sample	field Lab Assoc	ciated sampl	e(s): 01	QC Batch ID: W	/G13283	66-4 WG	31328366-5 QC	C Samp	le: L200086	2-08	Client	ID: MS
Total Organic Carbon (Rep1)	0.123	1.09	1.19	98		1.28	97		75-125	7		25
Total Organic Carbon (Rep2)	0.127	0.905	0.998	98		1.33	104	and control of	75-125	29	Q	25
General Chemistry - Westbor	ough Lab Asso	ociated samp	ole(s): 01	QC Batch ID: V	WG1328	585-4	QC Sample: L20	00719	-01 Client	ID: MS	Samp	le
Nitrogen, Total Kjeldahl	78J	3250	3000	92					43-160	•		26
General Chemistry - Westbore	ough Lab Asso	ociated samp	ole(s): 01	QC Batch ID: V	WG1328	590-4 (QC Sample: L20	000634	-01 Client	ID: MS	Samp	le.
Nitrogen, Ammonia	16	430	350	78		•	******		55-144		Mpoor	20
General Chemistry - Westbor	ough Lab Asso	ciated samp	ole(s): 01	QC Batch ID: V	NG1334	504-3	QC Sample: L20	00001	192 Clien	t ID: N	IS Sam	ple
Phosphorus, Total	31	239	280	100					75-125			20

Lab Duplicate Analysis Batch Quality Control

Project Name: LSA Project Number: AT003

Lab Number:

L2003636

Report Date:

rameter	Native	Sample	Duplicate San	nple Unit	s RPD	Qua	RPD Limits
eneral Chemistry - Westborough Lab	Associated sample(s): 01	OC Batch (C): WG1327925-2	QC Sample:	L2000575-01	Client ID:	DUP Sample
рН	8	3.0	7.8	SU	3		5
eneral Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch II	D: WG1327935-1	QC Sample:	L2000634-01	Client ID:	DUP Sample
Solids, Total	8	5.3	86.1	%	1	8	20
eneral Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch II	D: WG1328265-3	QC Sample:	L2000575-01	Client ID:	DUP Sample
Nitrogen, Nitrate	1	.4.)	1.1J	mg/k	g NC	· 5	20
tal Organic Carbon - Mansfield Lab	Associated sample(s): 01	QC Batch ID	WG1328366-3	QC Sample: I	L2000862-08	Client ID:	DUP Sample
Total Organic Carbon (Rep1)	0.	123	0.070	%	55 °	Q	25
Total Organic Carbon (Rep2)	0.	127	0.073	%	54	Q	25
Total Organic Carbon (Average)	0.	125	0.072	%	54	Q	25
neral Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch II	D: WG1328585-3	QC Sample:	L2000719-01	Client ID:	DUP Sample
Nitrogen, Total Kjeldahl	7	'8J	140J	mg/k	g NC		26
neral Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch II	D: WG1328590-3	QC Sample:	L2000634-01	Client ID:	DUP Sample
Nitrogen, Ammonia		16	9.2	mg/k	g 54	Q	20
eneral Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch II	D: WG1329379-2	QC Sample:	L2000575-01	Client ID:	DUP Sample
Solids, Total Volatile		53	52	%	2		11
neral Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch II	D: WG1334504-4	QC Sample:	L2000001-19	2 Client I	DUP Sample
Phosphorus, Total		31	39	mg/k	g 23	Q	20



Project Name: LSA Lab Number: L2003636

Project Number: AT003

Report Date: 01/28/20

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Cooler Custody Seal

A Absent

Container Info	rmation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2003636-01A	Plastic 2oz unpreserved for TS	A	NA		3.5	Υ	Absent		CR-TI(180),NI-TI(180),CU-TI(180),PB- TI(180),ZN-TI(180),HG-T(28),CD-TI(180),K- TI(180)
L2003636-01B	Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		A2-TOC-9060-2REPS(28)
L2003636-01C	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		TKN-4500(28),TS(7),TVS-2540(7),TPHOS- 4500(28),NO3-4500(2),PH-9045(1),NYTCL- 8082(14),NH3-4500(28)



Project Name:LSALab Number:L2003636Project Number:AT003Report Date:01/28/20

GLOSSARY

Acronyms

EDI.

LOD

LOQ

MS

RPD

TEE

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

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

of PAHs using Solid-Phase Microextraction (SPME).

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

EPA • Environmental Protection Agency.

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

LCSD Laboratory Control Sample Duplicate: Refer to LCS.

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

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

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

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

MDL

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

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

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

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

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

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

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

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

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

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

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

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

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

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: LSA Lab Number: L2003636

Project Number: AT003 Report Date: 01/28/20

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

Terms

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

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

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

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Bipheayl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benzo(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a "Total' result is requested, the results of its individual components will also be reported.

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

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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

Data Qualifiers

- Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted
 analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations
 of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- The concentration may be biased high due to matrix interferences (i.e., co-clution) 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.
- 1 The lower value for the two columns has been reported due to obvious interference.
- Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where
 the identification is based on a mass spectral library search.
- 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

Report Format: DU Report with 'J' Qualifiers



Project Name:LSALab Number:L2003636Project Number:AT003Report Date:01/28/20

Data Qualifiers

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

- R Analytical results are from sample re-analysis.
- RE Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



JUNA _ 1 10.0 1 2020 10.00

Project Name: LSA Lab Number: L2003636

Project Number: AT003 Report Date: 01/28/20

REFERENCES

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

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

LIMITATION OF LIABILITIES

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

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



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Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873

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

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Revision 15

Certification Information

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

Westborough Facility

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

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

Ethyltoluene.

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

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

Mansfield Facility

SM 2540D: TSS

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

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

3-Methytthiophene, 2-Ethythiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 30508

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

Westborough Facility:

Drinking Water

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

EPA 180.1, 5M2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

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

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

Non-Potable Water

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

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan III,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

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

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

Mansfield Facility:

Drinking Water

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

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

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



ATLANTIC TESTING LABORATORIES

L 2000575

GEOTECHNICAL/CONSTRUCTION MATERIALS CHAIN OF CUSTODY RECORD

L2003636

Albany 22 Corporate Drive Certain Park, NY 12005 518/363-9144 (T) 518/363-9195 (P)

Binghamton 126 Park Averue Binghamton, NY 13903 607/773-1812 (1) 607/773-1635 (F) Canton 6431 U.S. Highway 11 Canton, NY 13617 315/366-4678 (T) 315/366-9057 (F)

Elmira 2330 Route 352 Emrs, NY 14903 607/737-0700 (1) 807/737-0714 (F) Piattsburgh 130 Artzona Aversus, Suite 1540 Piattsburgh, NY 12903 518/503-5678 (T) 518/502-1321 (F) Poughkeepsie 251 Upper North Road Highland, NY 12528 845/891-6099 (F) 845/891-6099 (F)

Rochester 3495 Winton Pace Building B, Suite 4A Rochester, NY 14623 585427-9020 (T) 585427-9021 (F) Syracuse 6085 Court Street Road Suite A Syracuse, NY 13039 3154989-5281 (T) 3164999-3374 (F) Utica 301 St. Anthony Street Utics, NY 13501 315/735-3308 (T) -315/735-0742 (F) Watertown 26581 NYS Route 263 Visitertown, NY 13801 319/786-7087 (1) 315/786-2022 (F)

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Send Test	Data / Repo	ort To: Bob Field bfield@atlantictesting	.com		(name) (email address)	Date	Date	Date	Date.	Date	Date	Date	Date	Date	Date	Date	Page 1 of 2
Sample No.	Sample Type	Sample Location		imple cription	No. of Containers												Field Notes
827	S	Clifton Park Transfer Station	Comp	ost	2	X	×	×	×	×	×	×	X	×	×	x	*One sample per report (3 total)
828	S	Kinderhook Pit	Comp	ost	2	X	x	X	x	X	×	X	×	X	X	×	
829	S	Zerunda Pit	Comp	ost	2	×	х	Х	х	х	X	X	X	X	X	X	
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	Caretti	Samples Relinquished By:					Samo	les Rece	ivad Ru				Sa	male Tv	ne Code	Kov-	Storage Location of Sample:
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ATLANTIC TESTING LABORATORIES

GEOTECHNICAL/CONSTRUCTION MATERIALS CHAIN OF CUSTODY RECORD

L 2000575

Albany 32 Corporate Drive Citton Park, NY 12085 \$187383-9144 (1) \$18083-9166 (F) Binghamton 129 Park Avenue Binghamton, NY 13903 607/773-1812 (T) 807/773-1835 (F) Canton 6431 U.S. Highway 11 Canton, NY. 33617 315/386-4578 (T) 315/386-8067 (F)

Elmira 2330 Rouse 352 Elmira, NY 14903 607/737-0714 (F) Platisburch 130 Atzona Avenus, Suite 1540 Platisburgh, NY 12905 518/963-678 (1) 518/962-1321 (F) Poughkeepsie 251 Upper North Road Hightend, NY 12528 845/091-6089 (F) 845/091-6089 (F) Rochester 3495 Winton Place Building B, Suite 4A Rochester, NY 14623 585/427-9020 (T) 585/427-9021 (F) Syracuse 8085 Court Street Read Suite A Syracuse, RY 13039 315:699-5281 (T) 315:699-3374 (F) Utica 201 St. Anthony Street Uses, 61Y 13601 3167735-3306 (1) 3157735-0742 (F)

Watertown 26561 NYS Route 263 Westrown, NY 13601 315786-7667 (T) 515786-2022 (F)

Client:	Troy Sand	& Gravel		Applicable	e Specification					Page of							
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Sample No.	Sample Type	Sample Location	34	imple cription	No. of Containers												Field Notes
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OL.		Transfer Station					^	~									
828	S	Kinderhook Pit	Comp	ost	2	X	×	X									
829	S	Zerunda Pit	Comp	ost	2	×	×	×	-								
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179 River Street, Troy, New Yerk 12180

(518) 270-1620/Fax (518) 270-1672

Environmental Profossionals Geologic Consultants Construction Sorvices

February 27, 2020

Bureau of Waste Reduction and Recycling 625 Broadway Albany, NY 12233-7253

Subject:

Troy Sand & Gravel Company, Inc.

2019 Annual Report - Kinderhook Mine #11P14401

RECEIVED
FEB 2 8 2020
REGION IV HEADQUARTERS
SCHENECTADY, NY 12306

This Report is submitted on behalf of the Applicant, Troy Sand & Gravel Company Inc., to fulfill annual reporting requirements for the above mentioned operation.

If you have any questions regarding this information, please contact me at 518.270.1620 ext. 102, or by email mpolacco@h2hassociates.com.

Sincerely,

H2H Geoscience Engineering, PLLC

Michael Polacco Project Geologist

c Attachments as noted

Moles

Victoria Schmitt, NYSDEC Region 4 w/attach Carl Clemente, Troy S&G w/ attach File