

November 13, 2023

Mr. Mark Krening
Waste Management, Inc.
7227 NE 55th Avenue
Portland, OR 97218

RE: NW Natural Source Control Groundwater Treatment Facility Filter Press Cake Renewal Profile

Dear Mark:

Sevenson Environmental Services, Inc. (SES), on behalf of NW Natural, requests renewal of existing Profile 115116OR to continue to dispose of filter press cake residuals from the NW Natural Groundwater Treatment System (GTS) at the Waste Management, Inc. Hillsboro (Subtitle D) Landfill.

Table 1 summarizes representative testing results of monthly samples collected of the filter press cake residuals since the previous profile renewal in January 2023. All samples as summarized on Table 1 were submitted to Apex Laboratories, LLC (Apex) for analysis of: free liquids, total metals, leachable metals (toxicity characteristic leaching procedure-TCLP), total petroleum hydrocarbons (TPH), total cyanide, total volatile organic compounds (VOCs) and TCLP VOCs, and semi-volatile organic compounds (SVOCs). The laboratory reports as provided by Apex for each of the ten monthly sampling events completed during 2023 are included in Attachment 1.

Table 1 includes Method Detection Limits (MDLs) for “non-detect” constituents. Neither the reported concentrations nor the MDLs for these constituents exceed Resource Conservation and Recovery Act (RCRA) toxicity characteristic regulatory levels. These regulatory levels are based on leachate concentrations tested by Toxicity Characteristic Leaching Procedure (TCLP) methodology. Therefore, to complete this evaluation the total-concentration analytical results for the samples were screened against EPA’s TCLP regulatory levels multiplied by 20 (Table 1) to account for attenuation that occurs during the leaching process.

Part of Waste Management, Inc. profile renewal process requires radiochemical sampling. SES collected a separate grab sample from the October monthly sampling of filter press cake on October 24, 2023. The filter press cake sample was submitted to Pace Analytical (Pace) on October 25, 2023 for radiochemical analytical testing by Method DOE Ga-01-R/901.1 for following analytes: Potassium-40, Thallium-208, Lead-210, Lead-212, Lead-214, Bismuth-212, Bismuth-214(Ra-226), Radium-226 (186 KeV), Actinium-228 (Ra-228), Thorium-234 (U-238), Protactinium-234m, and Uranium-235. In Table 2, SES has charted the results from Pace Analytical Report dated October 26, 2023. The chart provides WM limits for comparison. The full laboratory report for this testing is included as Attachment 2.

Based on Apex Laboratories, LLC and Pace Analytical testing and screening procedures described above, it is concluded that filter press cake residuals are consistent with the existing profile (for renewal) and are therefore acceptable for disposal at a RCRA Subtitle D non-hazardous waste disposal facility. Based on the information included herein, it is requested that Waste Management renew Profile 115116OR and approve of continued disposal of these waste treatment residuals at the Hillsboro Landfill.

Please contact me if you have any questions.

Thank You,



William Byrd
WWTP Superintendent
Sevenson Environmental Services

Cc: Robert Wyatt (NW Natural), Kathryn Williams (NW Natural), Patty Dost (Pearl Legal Group), Ryan Barth (Anchor QEA), Rob Ede (Hahn and Associates), Tim Stone (Anchor QEA), Jen Mott (Anchor QEA), Mike Crystal (Sevenson Environmental Services), Joe Burke (Sevenson Environmental Services), Wesley Thomas (ODEQ), Terence Driscoll (Aponowich, Driscoll & Associates, Inc.)

Table
Table 1 Charted Monthly Apex Laboratory Results
Table 2 Charted Pace Analytical Results

Attachments
Attachment 1 Apex Laboratory Reports
Attachment 2 Pace Analytical Report
Signed WM Profile 115116OR
Signed Oregon Profile Radiation Addendum Certification

Generator Name Profile Number

Waste Name

Generator's NAICS Code Code Two;

Does the Generator's Facility manage, store, use, process, or discard any of the following materials in or from your production process?

Yes ¹	No	Waste Classifications
		Nuclear Materials
		Mineral Ore mining/overburden processing or extraction <i>Uranium, Radium, Thorium, Plutonium, Cobalt, Strontium, Zirconium, Polonium, Beryllium</i>
		Phosphate Fertilizer Production <i>Phosphogypsum, Scale, Residuals, Slag</i>
		Coal and Coal Burning Wastes <i>Coal Fly/Bottom Ash</i>
		Petroleum Refining/Production <i>Filter Socks, Pipe Scale, Stratum Water, Refinery Process Sediments, Tank Bottoms</i>
		Drinking Water and Wastewater Treatment Wastes <i>Filter Socks, Pipe Scale, Stratum Water, Tank Bottoms, Bio-solids, Septic</i>
		Other Processing Wastes <i>Ceramic, Refractory, Zircon sand, Bauxite to Alumina processing, Titanium, Zirconium, Baghouse Dusts with refractory, "Mag-Thor" metals, Ceramic Insulators, Sand Blasting waste</i>
		Geothermal Wastes <i>Filter Socks, Pipe Scale, Stratum Water, Tank Bottoms</i>
		Does the generator perform Metals Casting?
		Are any of the Generator's wastes subject to an oil and gas exploration and production (E&P) exemption pursuant to section 3001(b)(2)(A)?
		Have any of the Generator's wastes been tested using isotopic testing?
		Is any of the generator's wastes known to contain radioactivity?
		Does the Generator's facility have a Federal or State license to store, dispose or transport radioactive materials? Federal License No: _____ State License No: _____

1- Any YES answers may require additional information, please contact your TSC representative at wmpnw2@wm.com

GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)

By signing this form, I hereby certify that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

I am an Authorized Agent signing on behalf of the Generator, and I have confirmed with the Generator that information contained in this profile, as well as supporting documents provided, are accurate and complete.

Name Print _____ Date _____
 Title _____
 Company _____

Certification Signature





ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Wednesday, February 8, 2023

Chip Byrd
Sevenson Environmental Services, Inc.
2749 Lockport Road
Niagara Falls, NY 14305

RE: A3A0849 - Gasco -- Filtercake - 111323

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3A0849, which was received by the laboratory on 1/25/2023 at 10:05:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler 2.6 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



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Darwin Thomas, Business Development Director



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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3A0849 - 02 08 23 1514
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FC-012323-2053	A3A0849-01	Solid	01/23/23 23:45	01/25/23 10:05

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ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-012323-2053 (A3A0849-01)				Matrix: Solid		Batch: 23A0938		
Diesel	11900000	1090000	2180000	ug/kg dry	20	01/27/23 08:30	NWTPH-Dx	F-13
Oil	ND	2180000	4350000	ug/kg dry	20	01/27/23 08:30	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: %</i>	<i>Limits: 50-150 %</i>	20	01/27/23 08:30	NWTPH-Dx	S-01

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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-012323-2053 (A3A0849-01)				Matrix: Solid		Batch: 23A1004		V-15
Gasoline Range Organics	987000	130000	261000	ug/kg dry	100	01/27/23 19:25	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 101 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>01/27/23 19:25</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>96 %</i>	<i>50-150 %</i>	<i>1</i>	<i>01/27/23 19:25</i>	<i>NWTPH-Gx (MS)</i>	

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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-012323-2053 (A3A0849-01)				Matrix: Solid		Batch: 23A1004		V-15
Acetone	ND	26100	52100	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
Acrylonitrile	ND	2610	5210	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
Benzene	391	261	521	ug/kg dry	100	01/27/23 19:25	5035A/8260D	J
Bromobenzene	ND	652	1300	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
Bromochloromethane	ND	1300	2610	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
Bromodichloromethane	ND	1300	2610	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
Bromoform	ND	2610	5210	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
Bromomethane	ND	26100	26100	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
2-Butanone (MEK)	ND	13000	26100	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
n-Butylbenzene	ND	1300	2610	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
sec-Butylbenzene	ND	1300	2610	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
tert-Butylbenzene	ND	1300	2610	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
Carbon disulfide	ND	13000	26100	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
Carbon tetrachloride	ND	1300	2610	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
Chlorobenzene	ND	652	1300	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
Chloroethane	ND	13000	26100	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
Chloroform	ND	1300	2610	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
Chloromethane	ND	6520	13000	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
2-Chlorotoluene	ND	1300	2610	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
4-Chlorotoluene	ND	1300	2610	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
Dibromochloromethane	ND	2610	5210	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	6520	13000	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	1300	2610	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
Dibromomethane	ND	1300	2610	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
1,2-Dichlorobenzene	ND	652	1300	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
1,3-Dichlorobenzene	ND	652	1300	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
1,4-Dichlorobenzene	ND	652	1300	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
Dichlorodifluoromethane	ND	2610	5210	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
1,1-Dichloroethane	ND	652	1300	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	652	1300	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
1,1-Dichloroethene	ND	652	1300	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
cis-1,2-Dichloroethene	ND	652	1300	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
trans-1,2-Dichloroethene	ND	652	1300	ug/kg dry	100	01/27/23 19:25	5035A/8260D	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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 ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3A0849 - 02 08 23 1514
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-012323-2053 (A3A0849-01)				Matrix: Solid		Batch: 23A1004		V-15
1,2-Dichloropropane	ND	652	1300	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
1,3-Dichloropropane	ND	1300	2610	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
2,2-Dichloropropane	ND	1300	2610	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
1,1-Dichloropropene	ND	1300	2610	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
cis-1,3-Dichloropropene	ND	1300	2610	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
trans-1,3-Dichloropropene	ND	1300	2610	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
Ethylbenzene	ND	652	1300	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
Hexachlorobutadiene	ND	2610	5210	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
2-Hexanone	ND	26100	26100	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
Isopropylbenzene	ND	1300	2610	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
4-Isopropyltoluene	ND	1300	2610	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
Methylene chloride	ND	13000	26100	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
4-Methyl-2-pentanone (MIBK)	ND	13000	26100	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	1300	2610	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
Naphthalene	49800	2610	5210	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
n-Propylbenzene	ND	652	1300	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
Styrene	ND	1300	2610	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	652	1300	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	1300	2610	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
Tetrachloroethene (PCE)	ND	652	1300	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
Toluene	ND	1300	2610	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
1,2,3-Trichlorobenzene	ND	6520	13000	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
1,2,4-Trichlorobenzene	ND	6520	13000	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
1,1,1-Trichloroethane	ND	652	1300	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
1,1,2-Trichloroethane	ND	652	1300	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
Trichloroethene (TCE)	ND	652	1300	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
Trichlorofluoromethane	ND	2610	5210	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
1,2,3-Trichloropropane	ND	1300	2610	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
1,2,4-Trimethylbenzene	1850	1300	2610	ug/kg dry	100	01/27/23 19:25	5035A/8260D	J
1,3,5-Trimethylbenzene	ND	1300	2610	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
Vinyl chloride	ND	652	1300	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
m,p-Xylene	ND	1300	2610	ug/kg dry	100	01/27/23 19:25	5035A/8260D	
o-Xylene	ND	652	1300	ug/kg dry	100	01/27/23 19:25	5035A/8260D	

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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-012323-2053 (A3A0849-01)				Matrix: Solid		Batch: 23A1004		V-15
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/27/23 19:25</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/27/23 19:25</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>79-120 %</i>	<i>1</i>	<i>01/27/23 19:25</i>	<i>5035A/8260D</i>	

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ANALYTICAL SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-012323-2053 (A3A0849-01)				Matrix: Solid		Batch: 23B0150		
Benzene	ND	6.25	12.5	ug/L	50	02/03/23 16:09	1311/8260D	
2-Butanone (MEK)	ND	250	500	ug/L	50	02/03/23 16:09	1311/8260D	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	02/03/23 16:09	1311/8260D	
Chlorobenzene	ND	12.5	25.0	ug/L	50	02/03/23 16:09	1311/8260D	
Chloroform	ND	25.0	50.0	ug/L	50	02/03/23 16:09	1311/8260D	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	02/03/23 16:09	1311/8260D	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	02/03/23 16:09	1311/8260D	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	02/03/23 16:09	1311/8260D	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	02/03/23 16:09	1311/8260D	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	02/03/23 16:09	1311/8260D	
Vinyl chloride	ND	12.5	25.0	ug/L	50	02/03/23 16:09	1311/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>02/03/23 16:09</i>	<i>1311/8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>02/03/23 16:09</i>	<i>1311/8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>104 %</i>		<i>80-120 %</i>		<i>1</i>	<i>02/03/23 16:09</i>	<i>1311/8260D</i>

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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-012323-2053 (A3A0849-01)				Matrix: Solid		Batch: 23A1133		
Acenaphthene	47300	1420	2850	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Acenaphthylene	ND	3670	3670	ug/kg dry	200	02/02/23 13:57	EPA 8270E	R-02
Anthracene	36700	1420	2850	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Benz(a)anthracene	19300	1420	2850	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Benzo(a)pyrene	22800	2140	4270	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Benzo(b)fluoranthene	17400	2140	4270	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Benzo(k)fluoranthene	6540	2140	4270	ug/kg dry	200	02/02/23 13:57	EPA 8270E	M-05
Benzo(g,h,i)perylene	13100	1420	2850	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Chrysene	25600	1420	2850	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Dibenz(a,h)anthracene	ND	1420	2850	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Fluoranthene	99100	1420	2850	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Fluorene	28600	1420	2850	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Indeno(1,2,3-cd)pyrene	11900	1420	2850	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
1-Methylnaphthalene	17800	2850	5690	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
2-Methylnaphthalene	18800	2850	5690	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Naphthalene	ND	2850	5690	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Phenanthrene	192000	1420	2850	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Pyrene	116000	1420	2850	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Carbazole	2580	2140	4270	ug/kg dry	200	02/02/23 13:57	EPA 8270E	J
Dibenzofuran	3800	1420	2850	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
2-Chlorophenol	ND	7120	14200	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
4-Chloro-3-methylphenol	ND	14200	28500	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
2,4-Dichlorophenol	ND	7120	14200	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
2,4-Dimethylphenol	ND	7120	14200	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
2,4-Dinitrophenol	ND	35600	71200	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	35600	71200	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
2-Methylphenol	ND	3560	7120	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
3+4-Methylphenol(s)	ND	3560	7120	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
2-Nitrophenol	ND	14200	28500	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
4-Nitrophenol	ND	28500	28500	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Pentachlorophenol (PCP)	ND	14200	28500	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Phenol	ND	2850	5690	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	7120	14200	ug/kg dry	200	02/02/23 13:57	EPA 8270E	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3A0849 - 02 08 23 1514
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-012323-2053 (A3A0849-01)				Matrix: Solid		Batch: 23A1133		
2,3,5,6-Tetrachlorophenol	ND	7120	14200	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
2,4,5-Trichlorophenol	ND	7120	14200	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Nitrobenzene	ND	14200	28500	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
2,4,6-Trichlorophenol	ND	7120	14200	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	21400	42700	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Butyl benzyl phthalate	ND	14200	28500	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Diethylphthalate	ND	14200	28500	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Dimethylphthalate	ND	14200	28500	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Di-n-butylphthalate	ND	14200	28500	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Di-n-octyl phthalate	ND	14200	28500	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
N-Nitrosodimethylamine	ND	3560	7120	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	3560	7120	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
N-Nitrosodiphenylamine	ND	7120	7120	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	3560	7120	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	3560	7120	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	3560	7120	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Hexachlorobenzene	ND	1420	2850	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Hexachlorobutadiene	ND	3560	7120	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Hexachlorocyclopentadiene	ND	7120	14200	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Hexachloroethane	ND	3560	7120	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
2-Chloronaphthalene	ND	1420	2850	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
1,2,4-Trichlorobenzene	ND	3560	7120	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
4-Bromophenyl phenyl ether	ND	3560	7120	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	3560	7120	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Aniline	ND	7120	14200	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
4-Chloroaniline	ND	3560	7120	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
2-Nitroaniline	ND	28500	56900	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
3-Nitroaniline	ND	28500	56900	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
4-Nitroaniline	ND	28500	56900	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
2,4-Dinitrotoluene	ND	14200	28500	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
2,6-Dinitrotoluene	ND	14200	28500	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Benzoic acid	ND	178000	356000	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Benzyl alcohol	ND	7120	14200	ug/kg dry	200	02/02/23 13:57	EPA 8270E	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3A0849 - 02 08 23 1514
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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-012323-2053 (A3A0849-01)				Matrix: Solid		Batch: 23A1133		
Isophorone	ND	3560	7120	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Azobenzene (1,2-DPH)	ND	3560	7120	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	35600	71200	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
3,3'-Dichlorobenzidine	ND	28500	56900	ug/kg dry	200	02/02/23 13:57	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	35600	71200	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
1,3-Dinitrobenzene	ND	35600	71200	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
1,4-Dinitrobenzene	ND	35600	71200	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
Pyridine	ND	7120	14200	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
1,2-Dichlorobenzene	ND	3560	7120	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
1,3-Dichlorobenzene	ND	3560	7120	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
1,4-Dichlorobenzene	ND	3560	7120	ug/kg dry	200	02/02/23 13:57	EPA 8270E	
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>			<i>Recovery: 91 %</i>	<i>Limits: 37-122 %</i>	200	02/02/23 13:57	EPA 8270E	S-05
<i>2-Fluorobiphenyl (Surr)</i>			<i>67 %</i>	<i>44-120 %</i>	200	02/02/23 13:57	EPA 8270E	S-05
<i>Phenol-d6 (Surr)</i>			<i>188 %</i>	<i>33-122 %</i>	200	02/02/23 13:57	EPA 8270E	S-05
<i>p-Terphenyl-d14 (Surr)</i>			<i>83 %</i>	<i>54-127 %</i>	200	02/02/23 13:57	EPA 8270E	S-05
<i>2-Fluorophenol (Surr)</i>			<i>30 %</i>	<i>35-120 %</i>	200	02/02/23 13:57	EPA 8270E	S-05
<i>2,4,6-Tribromophenol (Surr)</i>			<i>%</i>	<i>39-132 %</i>	200	02/02/23 13:57	EPA 8270E	S-01

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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-012323-2053 (A3A0849-01)				Matrix: Solid				
Batch: 23A0990								
Arsenic	8950	2630	5260	ug/kg dry	10	01/27/23 16:25	EPA 6020B	
Barium	217000	2630	5260	ug/kg dry	10	01/27/23 16:25	EPA 6020B	
Cadmium	ND	526	1050	ug/kg dry	10	01/27/23 16:25	EPA 6020B	
Chromium	ND	2630	5260	ug/kg dry	10	01/27/23 16:25	EPA 6020B	
Lead	ND	526	1050	ug/kg dry	10	01/27/23 16:25	EPA 6020B	
Mercury	ND	210	421	ug/kg dry	10	01/27/23 16:25	EPA 6020B	
Selenium	ND	2630	5260	ug/kg dry	10	01/27/23 16:25	EPA 6020B	
Silver	ND	526	1050	ug/kg dry	10	01/27/23 16:25	EPA 6020B	

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ANALYTICAL SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-012323-2053 (A3A0849-01RE1)				Matrix: Solid				
Batch: 23A1122								
Arsenic	ND	50.0	100	ug/L	10	02/04/23 03:52	1311/6020B	
Barium	ND	2500	5000	ug/L	10	02/04/23 03:52	1311/6020B	
Cadmium	ND	50.0	100	ug/L	10	02/04/23 03:52	1311/6020B	
Chromium	ND	50.0	100	ug/L	10	02/04/23 03:52	1311/6020B	
Lead	ND	25.0	50.0	ug/L	10	02/04/23 03:52	1311/6020B	
Mercury	ND	3.75	7.00	ug/L	10	02/04/23 03:52	1311/6020B	
Selenium	ND	50.0	100	ug/L	10	02/04/23 03:52	1311/6020B	
Silver	ND	50.0	100	ug/L	10	02/04/23 03:52	1311/6020B	

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ANALYTICAL SAMPLE RESULTS

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-012323-2053 (A3A0849-01)				Matrix: Solid		Batch: 23B0070		
Total Cyanide	5340	538	1080	ug/kg dry	2	02/02/23 16:15	D7511-12	

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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-012323-2053 (A3A0849-01)				Matrix: Solid		Batch: 23A1010		
% Solids	18.4	---	1.00	%	1	01/30/23 07:00	EPA 8000D	

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ANALYTICAL SAMPLE RESULTS

TCLP Extraction by EPA 1311 (ZHE)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-012323-2053 (A3A0849-01)				Matrix: Solid		Batch: 23B0049		
TCLP ZHE Extraction	0.00	---		N/A	1	02/01/23 15:05	EPA 1311 ZHE	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0938 - EPA 3546 (Fuels)						Solid						
Blank (23A0938-BLK1)			Prepared: 01/26/23 06:24 Analyzed: 01/27/23 06:48									
<u>NWTPH-Dx</u>												
Diesel	ND	10000	20000	ug/kg wet	1	---	---	---	---	---	---	
Oil	ND	20000	40000	ug/kg wet	1	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 99 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
LCS (23A0938-BS1)			Prepared: 01/26/23 06:24 Analyzed: 01/27/23 07:08									
<u>NWTPH-Dx</u>												
Diesel	131000	10000	20000	ug/kg wet	1	125000	---	104	38-132%	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
Duplicate (23A0938-DUP1)			Prepared: 01/26/23 06:24 Analyzed: 01/27/23 07:49									
<u>QC Source Sample: Non-SDG (A3A0848-01)</u>												
Diesel	44300000	2230000	4470000	ug/kg dry	20	---	51400000	---	---	15	30%	
Oil	30000000	4470000	8930000	ug/kg dry	20	---	34100000	---	---	13	30%	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 20x</i>						S-01

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1004 - EPA 5035A						Soil						
Blank (23A1004-BLK1)			Prepared: 01/27/23 08:00 Analyzed: 01/27/23 12:37									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	2500	5000	ug/kg wet	50	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 98 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>99 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (23A1004-BS2)						Prepared: 01/27/23 08:00 Analyzed: 01/27/23 11:20						
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	21200	2500	5000	ug/kg wet	50	25000	---	85	80-120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 96 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>97 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (23A1004-DUP1)						Prepared: 01/25/23 11:05 Analyzed: 01/27/23 13:28						
<u>QC Source Sample: Non-SDG (A3A0906-01)</u>												
Gasoline Range Organics	ND	3440	6890	ug/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 99 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>101 %</i>		<i>50-150 %</i>		<i>"</i>						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1004 - EPA 5035A						Soil						
Blank (23A1004-BLK1)			Prepared: 01/27/23 08:00 Analyzed: 01/27/23 12:37									
<u>5035A/8260D</u>												
Acetone	ND	500	1000	ug/kg wet	50	---	---	---	---	---	---	
Acrylonitrile	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Benzene	ND	5.00	10.0	ug/kg wet	50	---	---	---	---	---	---	
Bromobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Bromochloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromodichloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromoform	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Bromomethane	ND	500	500	ug/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
n-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Carbon disulfide	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Chloroethane	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chloromethane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromochloromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromomethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3A0849 - 02 08 23 1514
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1004 - EPA 5035A						Soil						
Blank (23A1004-BLK1)			Prepared: 01/27/23 08:00 Analyzed: 01/27/23 12:37									
1,2-Dichloropropane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	500	500	ug/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Methylene chloride	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Styrene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr)

Recovery: 105 % Limits: 80-120 %

Dilution: 1x

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3A0849 - 02 08 23 1514
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1004 - EPA 5035A						Soil						
Blank (23A1004-BLK1)						Prepared: 01/27/23 08:00 Analyzed: 01/27/23 12:37						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>79-120 %</i>		<i>"</i>						
LCS (23A1004-BS1)						Prepared: 01/27/23 08:00 Analyzed: 01/27/23 11:46						
5035A/8260D												
Acetone	1890	500	1000	ug/kg wet	50	2000	---	95	80-120%	---	---	
Acrylonitrile	989	50.0	100	ug/kg wet	50	1000	---	99	80-120%	---	---	
Benzene	1070	5.00	10.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
Bromobenzene	964	12.5	25.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
Bromochloromethane	1140	25.0	50.0	ug/kg wet	50	1000	---	114	80-120%	---	---	
Bromodichloromethane	1100	25.0	50.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
Bromoform	980	50.0	100	ug/kg wet	50	1000	---	98	80-120%	---	---	
Bromomethane	2160	500	500	ug/kg wet	50	1000	---	216	80-120%	---	---	Q-56
2-Butanone (MEK)	1900	250	500	ug/kg wet	50	2000	---	95	80-120%	---	---	
n-Butylbenzene	869	25.0	50.0	ug/kg wet	50	1000	---	87	80-120%	---	---	
sec-Butylbenzene	926	25.0	50.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
tert-Butylbenzene	864	25.0	50.0	ug/kg wet	50	1000	---	86	80-120%	---	---	
Carbon disulfide	1010	250	500	ug/kg wet	50	1000	---	101	80-120%	---	---	
Carbon tetrachloride	1090	25.0	50.0	ug/kg wet	50	1000	---	109	80-120%	---	---	
Chlorobenzene	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Chloroethane	1420	250	500	ug/kg wet	50	1000	---	142	80-120%	---	---	Q-56
Chloroform	1140	25.0	50.0	ug/kg wet	50	1000	---	114	80-120%	---	---	
Chloromethane	928	125	250	ug/kg wet	50	1000	---	93	80-120%	---	---	
2-Chlorotoluene	922	25.0	50.0	ug/kg wet	50	1000	---	92	80-120%	---	---	
4-Chlorotoluene	916	25.0	50.0	ug/kg wet	50	1000	---	92	80-120%	---	---	
Dibromochloromethane	968	50.0	100	ug/kg wet	50	1000	---	97	80-120%	---	---	
1,2-Dibromo-3-chloropropane	814	125	250	ug/kg wet	50	1000	---	81	80-120%	---	---	
1,2-Dibromoethane (EDB)	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Dibromomethane	1150	25.0	50.0	ug/kg wet	50	1000	---	115	80-120%	---	---	
1,2-Dichlorobenzene	965	12.5	25.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
1,3-Dichlorobenzene	966	12.5	25.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
1,4-Dichlorobenzene	946	12.5	25.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
Dichlorodifluoromethane	902	50.0	100	ug/kg wet	50	1000	---	90	80-120%	---	---	
1,1-Dichloroethane	1160	12.5	25.0	ug/kg wet	50	1000	---	116	80-120%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3A0849 - 02 08 23 1514
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1004 - EPA 5035A						Soil						
LCS (23A1004-BS1)			Prepared: 01/27/23 08:00 Analyzed: 01/27/23 11:46									
1,2-Dichloroethane (EDC)	1150	12.5	25.0	ug/kg wet	50	1000	---	115	80-120%	---	---	
1,1-Dichloroethene	1140	12.5	25.0	ug/kg wet	50	1000	---	114	80-120%	---	---	
cis-1,2-Dichloroethene	1100	12.5	25.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
trans-1,2-Dichloroethene	1120	12.5	25.0	ug/kg wet	50	1000	---	112	80-120%	---	---	
1,2-Dichloropropane	1100	12.5	25.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
1,3-Dichloropropane	973	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
2,2-Dichloropropane	1080	25.0	50.0	ug/kg wet	50	1000	---	108	80-120%	---	---	
1,1-Dichloropropene	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
cis-1,3-Dichloropropene	916	25.0	50.0	ug/kg wet	50	1000	---	92	80-120%	---	---	
trans-1,3-Dichloropropene	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Ethylbenzene	990	12.5	25.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
Hexachlorobutadiene	868	50.0	100	ug/kg wet	50	1000	---	87	80-120%	---	---	
2-Hexanone	1590	500	500	ug/kg wet	50	2000	---	79	80-120%	---	---	Q-55
Isopropylbenzene	900	25.0	50.0	ug/kg wet	50	1000	---	90	80-120%	---	---	
4-Isopropyltoluene	890	25.0	50.0	ug/kg wet	50	1000	---	89	80-120%	---	---	
Methylene chloride	1070	250	500	ug/kg wet	50	1000	---	107	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	1770	250	500	ug/kg wet	50	2000	---	88	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	998	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Naphthalene	817	50.0	100	ug/kg wet	50	1000	---	82	80-120%	---	---	
n-Propylbenzene	946	12.5	25.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
Styrene	878	25.0	50.0	ug/kg wet	50	1000	---	88	80-120%	---	---	
1,1,1,2-Tetrachloroethane	1050	12.5	25.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
1,1,2,2-Tetrachloroethane	942	25.0	50.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
Tetrachloroethene (PCE)	1060	12.5	25.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
Toluene	992	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
1,2,3-Trichlorobenzene	928	125	250	ug/kg wet	50	1000	---	93	80-120%	---	---	
1,2,4-Trichlorobenzene	830	125	250	ug/kg wet	50	1000	---	83	80-120%	---	---	
1,1,1-Trichloroethane	1120	12.5	25.0	ug/kg wet	50	1000	---	112	80-120%	---	---	
1,1,2-Trichloroethane	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Trichloroethene (TCE)	1150	12.5	25.0	ug/kg wet	50	1000	---	115	80-120%	---	---	
Trichlorofluoromethane	1460	50.0	100	ug/kg wet	50	1000	---	146	80-120%	---	---	Q-56
1,2,3-Trichloropropane	962	25.0	50.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
1,2,4-Trimethylbenzene	966	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
1,3,5-Trimethylbenzene	979	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3A0849 - 02 08 23 1514
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1004 - EPA 5035A						Soil						
LCS (23A1004-BS1)			Prepared: 01/27/23 08:00 Analyzed: 01/27/23 11:46									
Vinyl chloride	1660	12.5	25.0	ug/kg wet	50	1000	---	166	80-120%	---	---	Q-56
m,p-Xylene	2000	25.0	50.0	ug/kg wet	50	2000	---	100	80-120%	---	---	
o-Xylene	896	12.5	25.0	ug/kg wet	50	1000	---	90	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (23A1004-DUP1)						Prepared: 01/25/23 11:05 Analyzed: 01/27/23 13:28						
QC Source Sample: Non-SDG (A3A0906-01)												
Acetone	ND	689	1380	ug/kg dry	50	---	ND	---	---	---	30%	
Acrylonitrile	ND	68.9	138	ug/kg dry	50	---	ND	---	---	---	30%	
Benzene	ND	6.89	13.8	ug/kg dry	50	---	ND	---	---	---	30%	
Bromobenzene	ND	17.2	34.4	ug/kg dry	50	---	ND	---	---	---	30%	
Bromochloromethane	ND	34.4	68.9	ug/kg dry	50	---	ND	---	---	---	30%	
Bromodichloromethane	ND	34.4	68.9	ug/kg dry	50	---	ND	---	---	---	30%	
Bromoform	ND	68.9	138	ug/kg dry	50	---	ND	---	---	---	30%	
Bromomethane	ND	689	689	ug/kg dry	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	344	689	ug/kg dry	50	---	ND	---	---	---	30%	
n-Butylbenzene	ND	34.4	68.9	ug/kg dry	50	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	34.4	68.9	ug/kg dry	50	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	34.4	68.9	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon disulfide	ND	344	689	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	34.4	68.9	ug/kg dry	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	17.2	34.4	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroethane	ND	344	689	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroform	ND	34.4	68.9	ug/kg dry	50	---	ND	---	---	---	30%	
Chloromethane	ND	172	344	ug/kg dry	50	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	34.4	68.9	ug/kg dry	50	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	34.4	68.9	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromochloromethane	ND	68.9	138	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	172	344	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	34.4	68.9	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromomethane	ND	34.4	68.9	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	17.2	34.4	ug/kg dry	50	---	ND	---	---	---	30%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1004 - EPA 5035A						Soil						
Duplicate (23A1004-DUP1)			Prepared: 01/25/23 11:05 Analyzed: 01/27/23 13:28									
QC Source Sample: Non-SDG (A3A0906-01)												
1,3-Dichlorobenzene	ND	17.2	34.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	17.2	34.4	ug/kg dry	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	68.9	138	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	17.2	34.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	17.2	34.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	17.2	34.4	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	17.2	34.4	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	17.2	34.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	17.2	34.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	34.4	68.9	ug/kg dry	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	34.4	68.9	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	34.4	68.9	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	34.4	68.9	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	34.4	68.9	ug/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	17.2	34.4	ug/kg dry	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	68.9	138	ug/kg dry	50	---	ND	---	---	---	30%	
2-Hexanone	ND	689	689	ug/kg dry	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	34.4	68.9	ug/kg dry	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	34.4	68.9	ug/kg dry	50	---	ND	---	---	---	30%	
Methylene chloride	ND	344	689	ug/kg dry	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	344	689	ug/kg dry	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	34.4	68.9	ug/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	68.9	138	ug/kg dry	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	17.2	34.4	ug/kg dry	50	---	ND	---	---	---	30%	
Styrene	ND	34.4	68.9	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	17.2	34.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	34.4	68.9	ug/kg dry	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	123	17.2	34.4	ug/kg dry	50	---	134	---	---	9	30%	
Toluene	ND	34.4	68.9	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	172	344	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	172	344	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	17.2	34.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	17.2	34.4	ug/kg dry	50	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3A0849 - 02 08 23 1514
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1004 - EPA 5035A						Soil						
Duplicate (23A1004-DUP1)			Prepared: 01/25/23 11:05 Analyzed: 01/27/23 13:28									
QC Source Sample: Non-SDG (A3A0906-01)												
Trichloroethene (TCE)	ND	17.2	34.4	ug/kg dry	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	68.9	138	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	34.4	68.9	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	34.4	68.9	ug/kg dry	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	34.4	68.9	ug/kg dry	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	17.2	34.4	ug/kg dry	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	34.4	68.9	ug/kg dry	50	---	ND	---	---	---	30%	
o-Xylene	ND	17.2	34.4	ug/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 106 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>79-120 %</i>		<i>"</i>						

Matrix Spike (23A1004-MS1)			Prepared: 01/20/23 00:00 Analyzed: 01/27/23 18:08									
QC Source Sample: Non-SDG (A3A0750-01)												
5035A/8260D												
Acetone	2620	667	1330	ug/kg dry	50	2670	ND	98	36-164%	---	---	
Acrylonitrile	1300	66.7	133	ug/kg dry	50	1330	ND	97	65-134%	---	---	
Benzene	1400	6.67	13.3	ug/kg dry	50	1330	ND	105	77-121%	---	---	
Bromobenzene	1300	16.7	33.3	ug/kg dry	50	1330	ND	98	78-121%	---	---	
Bromochloromethane	1420	33.3	66.7	ug/kg dry	50	1330	ND	106	78-125%	---	---	
Bromodichloromethane	1410	33.3	66.7	ug/kg dry	50	1330	ND	106	75-127%	---	---	
Bromoform	1260	66.7	133	ug/kg dry	50	1330	ND	95	67-132%	---	---	
Bromomethane	2800	667	667	ug/kg dry	50	1330	ND	210	53-143%	---	---	Q-54d
2-Butanone (MEK)	2460	333	667	ug/kg dry	50	2670	ND	92	51-148%	---	---	
n-Butylbenzene	1620	33.3	66.7	ug/kg dry	50	1330	202	106	70-128%	---	---	
sec-Butylbenzene	1410	33.3	66.7	ug/kg dry	50	1330	66.7	101	73-126%	---	---	
tert-Butylbenzene	1250	33.3	66.7	ug/kg dry	50	1330	ND	94	73-125%	---	---	
Carbon disulfide	1310	333	667	ug/kg dry	50	1330	ND	98	63-132%	---	---	
Carbon tetrachloride	1450	33.3	66.7	ug/kg dry	50	1330	ND	109	70-135%	---	---	
Chlorobenzene	1340	16.7	33.3	ug/kg dry	50	1330	ND	100	79-120%	---	---	
Chloroethane	1660	333	667	ug/kg dry	50	1330	ND	124	59-139%	---	---	Q-54a
Chloroform	1480	33.3	66.7	ug/kg dry	50	1330	ND	111	78-123%	---	---	
Chloromethane	1170	167	333	ug/kg dry	50	1330	ND	88	50-136%	---	---	

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ANALYTICAL REPORT

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3A0849 - 02 08 23 1514
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1004 - EPA 5035A						Soil						
Matrix Spike (23A1004-MS1)			Prepared: 01/20/23 00:00 Analyzed: 01/27/23 18:08									
QC Source Sample: Non-SDG (A3A0750-01)												
2-Chlorotoluene	1330	33.3	66.7	ug/kg dry	50	1330	ND	99	75-122%	---	---	
4-Chlorotoluene	1230	33.3	66.7	ug/kg dry	50	1330	ND	92	72-124%	---	---	
Dibromochloromethane	1250	66.7	133	ug/kg dry	50	1330	ND	94	74-126%	---	---	
1,2-Dibromo-3-chloropropane	1300	167	333	ug/kg dry	50	1330	ND	98	61-132%	---	---	
1,2-Dibromoethane (EDB)	1340	33.3	66.7	ug/kg dry	50	1330	ND	101	78-122%	---	---	
Dibromomethane	1460	33.3	66.7	ug/kg dry	50	1330	ND	110	78-125%	---	---	
1,2-Dichlorobenzene	1330	16.7	33.3	ug/kg dry	50	1330	ND	99	78-121%	---	---	
1,3-Dichlorobenzene	1320	16.7	33.3	ug/kg dry	50	1330	ND	99	77-121%	---	---	
1,4-Dichlorobenzene	1280	16.7	33.3	ug/kg dry	50	1330	ND	96	75-120%	---	---	
Dichlorodifluoromethane	1190	66.7	133	ug/kg dry	50	1330	ND	89	29-149%	---	---	
1,1-Dichloroethane	1480	16.7	33.3	ug/kg dry	50	1330	ND	111	76-125%	---	---	
1,2-Dichloroethane (EDC)	1450	16.7	33.3	ug/kg dry	50	1330	ND	109	73-128%	---	---	
1,1-Dichloroethene	1480	16.7	33.3	ug/kg dry	50	1330	ND	111	70-131%	---	---	
cis-1,2-Dichloroethene	1420	16.7	33.3	ug/kg dry	50	1330	ND	106	77-123%	---	---	
trans-1,2-Dichloroethene	1450	16.7	33.3	ug/kg dry	50	1330	ND	109	74-125%	---	---	
1,2-Dichloropropane	1420	16.7	33.3	ug/kg dry	50	1330	ND	106	76-123%	---	---	
1,3-Dichloropropane	1270	33.3	66.7	ug/kg dry	50	1330	ND	95	77-121%	---	---	
2,2-Dichloropropane	1430	33.3	66.7	ug/kg dry	50	1330	ND	107	67-133%	---	---	
1,1-Dichloropropene	1360	33.3	66.7	ug/kg dry	50	1330	ND	102	76-125%	---	---	
cis-1,3-Dichloropropene	1250	33.3	66.7	ug/kg dry	50	1330	ND	94	74-126%	---	---	
trans-1,3-Dichloropropene	1320	33.3	66.7	ug/kg dry	50	1330	ND	99	71-130%	---	---	
Ethylbenzene	1440	16.7	33.3	ug/kg dry	50	1330	108	100	76-122%	---	---	
Hexachlorobutadiene	1570	66.7	133	ug/kg dry	50	1330	ND	117	61-135%	---	---	
2-Hexanone	2230	667	667	ug/kg dry	50	2670	ND	83	53-145%	---	---	Q-54e
Isopropylbenzene	1330	33.3	66.7	ug/kg dry	50	1330	44.7	96	68-134%	---	---	
4-Isopropyltoluene	1370	33.3	66.7	ug/kg dry	50	1330	39.3	100	73-127%	---	---	
Methylene chloride	1340	333	667	ug/kg dry	50	1330	ND	100	70-128%	---	---	
4-Methyl-2-pentanone (MiBK)	2370	333	667	ug/kg dry	50	2670	ND	89	65-135%	---	---	
Methyl tert-butyl ether (MTBE)	1290	33.3	66.7	ug/kg dry	50	1330	ND	97	73-125%	---	---	
Naphthalene	2870	66.7	133	ug/kg dry	50	1330	1320	116	62-129%	---	---	
n-Propylbenzene	1610	16.7	33.3	ug/kg dry	50	1330	255	102	73-125%	---	---	
Styrene	1210	33.3	66.7	ug/kg dry	50	1330	ND	91	76-124%	---	---	
1,1,1,2-Tetrachloroethane	1370	16.7	33.3	ug/kg dry	50	1330	ND	103	78-125%	---	---	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3A0849 - 02 08 23 1514
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1004 - EPA 5035A						Soil						
Matrix Spike (23A1004-MS1)			Prepared: 01/20/23 00:00 Analyzed: 01/27/23 18:08									
QC Source Sample: Non-SDG (A3A0750-01)												
1,1,2,2-Tetrachloroethane	1250	33.3	66.7	ug/kg dry	50	1330	ND	94	70-124%	---	---	
Tetrachloroethene (PCE)	1570	16.7	33.3	ug/kg dry	50	1330	120	108	73-128%	---	---	
Toluene	1300	33.3	66.7	ug/kg dry	50	1330	ND	98	77-121%	---	---	
1,2,3-Trichlorobenzene	1370	167	333	ug/kg dry	50	1330	ND	103	66-130%	---	---	
1,2,4-Trichlorobenzene	1380	167	333	ug/kg dry	50	1330	ND	103	67-129%	---	---	
1,1,1-Trichloroethane	1470	16.7	33.3	ug/kg dry	50	1330	ND	110	73-130%	---	---	
1,1,2-Trichloroethane	1300	16.7	33.3	ug/kg dry	50	1330	ND	98	78-121%	---	---	
Trichloroethene (TCE)	1530	16.7	33.3	ug/kg dry	50	1330	ND	115	77-123%	---	---	
Trichlorofluoromethane	1720	66.7	133	ug/kg dry	50	1330	ND	129	62-140%	---	---	Q-54b
1,2,3-Trichloropropane	1280	33.3	66.7	ug/kg dry	50	1330	ND	96	73-125%	---	---	
1,2,4-Trimethylbenzene	5090	33.3	66.7	ug/kg dry	50	1330	3490	120	75-123%	---	---	
1,3,5-Trimethylbenzene	2700	33.3	66.7	ug/kg dry	50	1330	1180	114	73-124%	---	---	
Vinyl chloride	2070	16.7	33.3	ug/kg dry	50	1330	ND	155	56-135%	---	---	Q-54c
m,p-Xylene	3280	33.3	66.7	ug/kg dry	50	2670	489	104	77-124%	---	---	
o-Xylene	1650	16.7	33.3	ug/kg dry	50	1330	328	99	77-123%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>79-120 %</i>		<i>"</i>						

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3A0849 - 02 08 23 1514
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23B0150 - EPA 1311/5030B TCLP Volatiles						Water						
Blank (23B0150-BLK1)						Prepared: 02/03/23 12:06 Analyzed: 02/03/23 14:48						TCLPa
<u>1311/8260D</u>												
Benzene	ND	6.25	12.5	ug/L	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/L	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>108 %</i>		<i>80-120 %</i>		<i>"</i>						

LCS (23B0150-BS1)						Prepared: 02/03/23 12:06 Analyzed: 02/03/23 13:50						TCLPa
<u>1311/8260D</u>												
Benzene	981	6.25	12.5	ug/L	50	1000	---	98	80-120%	---	---	
2-Butanone (MEK)	1750	250	500	ug/L	50	2000	---	88	80-120%	---	---	
Carbon tetrachloride	1220	25.0	50.0	ug/L	50	1000	---	122	80-120%	---	---	Q-56
Chlorobenzene	1000	12.5	25.0	ug/L	50	1000	---	100	80-120%	---	---	
Chloroform	972	25.0	50.0	ug/L	50	1000	---	97	80-120%	---	---	
1,4-Dichlorobenzene	982	12.5	25.0	ug/L	50	1000	---	98	80-120%	---	---	
1,1-Dichloroethene	1000	12.5	25.0	ug/L	50	1000	---	100	80-120%	---	---	
1,2-Dichloroethane (EDC)	998	12.5	25.0	ug/L	50	1000	---	100	80-120%	---	---	
Tetrachloroethene (PCE)	1140	12.5	25.0	ug/L	50	1000	---	114	80-120%	---	---	
Trichloroethene (TCE)	988	12.5	25.0	ug/L	50	1000	---	99	80-120%	---	---	
Vinyl chloride	862	12.5	25.0	ug/L	50	1000	---	86	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 94 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>95 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>91 %</i>		<i>80-120 %</i>		<i>"</i>						

Duplicate (23B0150-DUP1)						Prepared: 02/03/23 12:06 Analyzed: 02/03/23 15:42					
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ANALYTICAL REPORT

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3A0849 - 02 08 23 1514
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23B0150 - EPA 1311/5030B TCLP Volatiles						Water						
Duplicate (23B0150-DUP1)			Prepared: 02/03/23 12:06 Analyzed: 02/03/23 15:42									
QC Source Sample: Non-SDG (A3A0848-01)												
Benzene	ND	6.25	12.5	ug/L	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	250	500	ug/L	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Chloroform	134	25.0	50.0	ug/L	50	---	137	---	---	2	30%	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>107 %</i>		<i>80-120 %</i>		<i>"</i>						

Matrix Spike (23B0150-MS1)			Prepared: 02/03/23 12:06 Analyzed: 02/03/23 16:36									
QC Source Sample: FC-012323-2053 (A3A0849-01)												
1311/8260D												
Benzene	966	6.25	12.5	ug/L	50	1000	ND	97	79-120%	---	---	
2-Butanone (MEK)	1800	250	500	ug/L	50	2000	ND	90	56-143%	---	---	
Carbon tetrachloride	1190	25.0	50.0	ug/L	50	1000	ND	119	72-136%	---	---	Q-54
Chlorobenzene	989	12.5	25.0	ug/L	50	1000	ND	99	80-120%	---	---	
Chloroform	945	25.0	50.0	ug/L	50	1000	ND	94	79-124%	---	---	
1,4-Dichlorobenzene	990	12.5	25.0	ug/L	50	1000	ND	99	79-120%	---	---	
1,1-Dichloroethene	970	12.5	25.0	ug/L	50	1000	ND	97	71-131%	---	---	
1,2-Dichloroethane (EDC)	972	12.5	25.0	ug/L	50	1000	ND	97	73-128%	---	---	
Tetrachloroethene (PCE)	1110	12.5	25.0	ug/L	50	1000	ND	111	74-129%	---	---	
Trichloroethene (TCE)	980	12.5	25.0	ug/L	50	1000	ND	98	79-123%	---	---	
Vinyl chloride	881	12.5	25.0	ug/L	50	1000	ND	88	58-137%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 94 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>93 %</i>		<i>80-120 %</i>		<i>"</i>						

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3A0849 - 02 08 23 1514
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1133 - EPA 3546						Solid						
Blank (23A1133-BLK1)			Prepared: 01/31/23 15:48 Analyzed: 02/02/23 11:41									
<u>EPA 8270E</u>												
Acenaphthene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Chrysene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Fluoranthene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Fluorene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
Naphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
Phenanthrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Pyrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Carbazole	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Dibenzofuran	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
2-Chlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
2-Methylphenol	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Nitrophenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
4-Nitrophenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Phenol	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3A0849 - 02 08 23 1514
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1133 - EPA 3546						Solid						
Blank (23A1133-BLK1)			Prepared: 01/31/23 15:48 Analyzed: 02/02/23 11:41									
2,3,5,6-Tetrachlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Nitrobenzene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	20.0	40.0	ug/kg wet	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Diethylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Dimethylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2,2'-Oxybis(1-Chloropropane)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Hexachloroethane	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Aniline	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
4-Chloroaniline	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
3-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
4-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Benzoic acid	ND	167	333	ug/kg wet	1	---	---	---	---	---	---	
Benzyl alcohol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Isophorone	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3A0849 - 02 08 23 1514
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1133 - EPA 3546						Solid						
Blank (23A1133-BLK1)			Prepared: 01/31/23 15:48 Analyzed: 02/02/23 11:41									
Azobenzene (1,2-DPH)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Ethylhexyl) adipate	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	Q-52
1,2-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
Pyridine	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 94 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 1x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>82 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>70 %</i>		<i>33-122 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>95 %</i>		<i>54-127 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>84 %</i>		<i>35-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>79 %</i>		<i>39-132 %</i>		<i>"</i>						

LCS (23A1133-BS1)						Prepared: 01/31/23 15:48 Analyzed: 02/02/23 12:15						Q-18
EPA 8270E												
Acenaphthene	487	5.32	10.7	ug/kg wet	4	533	---	91	40-123%	---	---	
Acenaphthylene	517	5.32	10.7	ug/kg wet	4	533	---	97	32-132%	---	---	
Anthracene	543	5.32	10.7	ug/kg wet	4	533	---	102	47-123%	---	---	
Benz(a)anthracene	537	5.32	10.7	ug/kg wet	4	533	---	101	49-126%	---	---	
Benzo(a)pyrene	550	8.00	16.0	ug/kg wet	4	533	---	103	45-129%	---	---	
Benzo(b)fluoranthene	553	8.00	16.0	ug/kg wet	4	533	---	104	45-132%	---	---	
Benzo(k)fluoranthene	549	8.00	16.0	ug/kg wet	4	533	---	103	47-132%	---	---	
Benzo(g,h,i)perylene	559	5.32	10.7	ug/kg wet	4	533	---	105	43-134%	---	---	
Chrysene	521	5.32	10.7	ug/kg wet	4	533	---	98	50-124%	---	---	
Dibenz(a,h)anthracene	540	5.32	10.7	ug/kg wet	4	533	---	101	45-134%	---	---	
Fluoranthene	562	5.32	10.7	ug/kg wet	4	533	---	105	50-127%	---	---	
Fluorene	478	5.32	10.7	ug/kg wet	4	533	---	90	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	543	5.32	10.7	ug/kg wet	4	533	---	102	45-133%	---	---	
1-Methylnaphthalene	500	10.7	21.3	ug/kg wet	4	533	---	94	40-120%	---	---	
2-Methylnaphthalene	503	10.7	21.3	ug/kg wet	4	533	---	94	38-122%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23A1133 - EPA 3546						Solid							
LCS (23A1133-BS1)			Prepared: 01/31/23 15:48 Analyzed: 02/02/23 12:15						Q-18				
Naphthalene	496	10.7	21.3	ug/kg wet	4	533	---	93	35-123%	---	---		
Phenanthrene	501	5.32	10.7	ug/kg wet	4	533	---	94	50-121%	---	---		
Pyrene	543	5.32	10.7	ug/kg wet	4	533	---	102	47-127%	---	---		
Carbazole	512	8.00	16.0	ug/kg wet	4	533	---	96	50-123%	---	---		
Dibenzofuran	488	5.32	10.7	ug/kg wet	4	533	---	92	44-120%	---	---		
2-Chlorophenol	520	26.7	53.2	ug/kg wet	4	533	---	98	34-121%	---	---		
4-Chloro-3-methylphenol	491	53.2	107	ug/kg wet	4	533	---	92	45-122%	---	---		
2,4-Dichlorophenol	497	26.7	53.2	ug/kg wet	4	533	---	93	40-122%	---	---		
2,4-Dimethylphenol	548	26.7	53.2	ug/kg wet	4	533	---	103	30-127%	---	---	Q-41	
2,4-Dinitrophenol	285	133	267	ug/kg wet	4	533	---	53	10-137%	---	---	Q-31	
4,6-Dinitro-2-methylphenol	419	133	267	ug/kg wet	4	533	---	79	29-132%	---	---		
2-Methylphenol	516	13.3	26.7	ug/kg wet	4	533	---	97	32-122%	---	---		
3+4-Methylphenol(s)	482	13.3	26.7	ug/kg wet	4	533	---	90	34-120%	---	---		
2-Nitrophenol	573	53.2	107	ug/kg wet	4	533	---	107	36-123%	---	---	Q-41	
4-Nitrophenol	390	53.2	107	ug/kg wet	4	533	---	73	30-132%	---	---		
Pentachlorophenol (PCP)	405	53.2	107	ug/kg wet	4	533	---	76	25-133%	---	---		
Phenol	502	10.7	21.3	ug/kg wet	4	533	---	94	34-121%	---	---		
2,3,4,6-Tetrachlorophenol	510	26.7	53.2	ug/kg wet	4	533	---	96	44-125%	---	---		
2,3,5,6-Tetrachlorophenol	488	26.7	53.2	ug/kg wet	4	533	---	91	40-120%	---	---		
2,4,5-Trichlorophenol	500	26.7	53.2	ug/kg wet	4	533	---	94	41-124%	---	---		
Nitrobenzene	494	53.2	107	ug/kg wet	4	533	---	93	34-122%	---	---		
2,4,6-Trichlorophenol	493	26.7	53.2	ug/kg wet	4	533	---	92	39-126%	---	---		
Bis(2-ethylhexyl)phthalate	552	80.0	160	ug/kg wet	4	533	---	104	51-133%	---	---		
Butyl benzyl phthalate	553	53.2	107	ug/kg wet	4	533	---	104	48-132%	---	---		
Diethylphthalate	514	53.2	107	ug/kg wet	4	533	---	96	50-124%	---	---		
Dimethylphthalate	510	53.2	107	ug/kg wet	4	533	---	96	48-124%	---	---		
Di-n-butylphthalate	604	53.2	107	ug/kg wet	4	533	---	113	51-128%	---	---		
Di-n-octyl phthalate	617	53.2	107	ug/kg wet	4	533	---	116	45-140%	---	---		
N-Nitrosodimethylamine	475	13.3	26.7	ug/kg wet	4	533	---	89	23-120%	---	---		
N-Nitroso-di-n-propylamine	506	13.3	26.7	ug/kg wet	4	533	---	95	36-120%	---	---		
N-Nitrosodiphenylamine	526	13.3	26.7	ug/kg wet	4	533	---	99	38-127%	---	---		
Bis(2-Chloroethoxy) methane	501	13.3	26.7	ug/kg wet	4	533	---	94	36-121%	---	---		
Bis(2-Chloroethyl) ether	460	13.3	26.7	ug/kg wet	4	533	---	86	31-120%	---	---		
2,2'-Oxybis(1-Chloropropane)	434	13.3	26.7	ug/kg wet	4	533	---	81	39-120%	---	---		

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23A1133 - EPA 3546						Solid							
LCS (23A1133-BS1)			Prepared: 01/31/23 15:48 Analyzed: 02/02/23 12:15						Q-18				
Hexachlorobenzene	502	5.32	10.7	ug/kg wet	4	533	---	94	45-122%	---	---		
Hexachlorobutadiene	473	13.3	26.7	ug/kg wet	4	533	---	89	32-123%	---	---		
Hexachlorocyclopentadiene	482	26.7	53.2	ug/kg wet	4	533	---	90	10-140%	---	---		
Hexachloroethane	487	13.3	26.7	ug/kg wet	4	533	---	91	28-120%	---	---		
2-Chloronaphthalene	488	5.32	10.7	ug/kg wet	4	533	---	92	41-120%	---	---		
1,2,4-Trichlorobenzene	497	13.3	26.7	ug/kg wet	4	533	---	93	34-120%	---	---		
4-Bromophenyl phenyl ether	515	13.3	26.7	ug/kg wet	4	533	---	96	46-124%	---	---		
4-Chlorophenyl phenyl ether	506	13.3	26.7	ug/kg wet	4	533	---	95	45-121%	---	---		
Aniline	392	26.7	53.2	ug/kg wet	4	533	---	73	10-120%	---	---		
4-Chloroaniline	372	13.3	26.7	ug/kg wet	4	533	---	70	17-120%	---	---	Q-41	
2-Nitroaniline	519	107	213	ug/kg wet	4	533	---	97	44-127%	---	---		
3-Nitroaniline	517	107	213	ug/kg wet	4	533	---	97	33-120%	---	---	Q-41	
4-Nitroaniline	586	107	213	ug/kg wet	4	533	---	110	51-125%	---	---	Q-41	
2,4-Dinitrotoluene	491	53.2	107	ug/kg wet	4	533	---	92	48-126%	---	---		
2,6-Dinitrotoluene	521	53.2	107	ug/kg wet	4	533	---	98	46-124%	---	---		
Benzoic acid	377	320	320	ug/kg wet	4	1070	---	35	10-140%	---	---		
Benzyl alcohol	394	26.7	53.2	ug/kg wet	4	533	---	74	29-122%	---	---		
Isophorone	491	13.3	26.7	ug/kg wet	4	533	---	92	30-122%	---	---		
Azobenzene (1,2-DPH)	517	13.3	26.7	ug/kg wet	4	533	---	97	39-125%	---	---		
Bis(2-Ethylhexyl) adipate	577	133	267	ug/kg wet	4	533	---	108	61-121%	---	---		
3,3'-Dichlorobenzidine	4700	107	213	ug/kg wet	4	1070	---	441	22-121%	---	---	Q-29, Q-41, Q-52	
1,2-Dinitrobenzene	523	133	267	ug/kg wet	4	533	---	98	44-120%	---	---		
1,3-Dinitrobenzene	481	133	267	ug/kg wet	4	533	---	90	43-127%	---	---		
1,4-Dinitrobenzene	482	133	267	ug/kg wet	4	533	---	90	37-132%	---	---		
Pyridine	405	26.7	53.2	ug/kg wet	4	533	---	76	10-120%	---	---		
1,2-Dichlorobenzene	481	13.3	26.7	ug/kg wet	4	533	---	90	33-120%	---	---		
1,3-Dichlorobenzene	486	13.3	26.7	ug/kg wet	4	533	---	91	30-120%	---	---		
1,4-Dichlorobenzene	472	13.3	26.7	ug/kg wet	4	533	---	88	31-120%	---	---		
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 95 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 4x</i>							
<i>2-Fluorobiphenyl (Surr)</i>		<i>95 %</i>		<i>44-120 %</i>		<i>"</i>							
<i>Phenol-d6 (Surr)</i>		<i>84 %</i>		<i>33-122 %</i>		<i>"</i>							
<i>p-Terphenyl-d14 (Surr)</i>		<i>110 %</i>		<i>54-127 %</i>		<i>"</i>							
<i>2-Fluorophenol (Surr)</i>		<i>93 %</i>		<i>35-120 %</i>		<i>"</i>							
<i>2,4,6-Tribromophenol (Surr)</i>		<i>94 %</i>		<i>39-132 %</i>		<i>"</i>							

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3A0849 - 02 08 23 1514
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1133 - EPA 3546						Solid						
Duplicate (23A1133-DUP1)			Prepared: 01/31/23 15:48 Analyzed: 02/02/23 13:23									
QC Source Sample: Non-SDG (A3A0848-01)												
Acenaphthene	ND	2930	5890	ug/kg dry	200	---	ND	---	---	---	30%	
Acenaphthylene	ND	2930	5890	ug/kg dry	200	---	ND	---	---	---	30%	
Anthracene	ND	2930	5890	ug/kg dry	200	---	ND	---	---	---	30%	
Benz(a)anthracene	ND	6070	6070	ug/kg dry	200	---	ND	---	---	---	30%	R-02
Benzo(a)pyrene	ND	4410	8820	ug/kg dry	200	---	ND	---	---	---	30%	
Benzo(b)fluoranthene	5670	4410	8820	ug/kg dry	200	---	6030	---	---	6	30%	J
Benzo(k)fluoranthene	ND	4410	8820	ug/kg dry	200	---	ND	---	---	---	30%	
Benzo(g,h,i)perylene	ND	2930	5890	ug/kg dry	200	---	ND	---	---	---	30%	
Chrysene	ND	7740	7740	ug/kg dry	200	---	ND	---	---	---	30%	R-02
Dibenz(a,h)anthracene	ND	2930	5890	ug/kg dry	200	---	ND	---	---	---	30%	
Fluoranthene	46700	2930	5890	ug/kg dry	200	---	47800	---	---	2	30%	
Fluorene	78300	2930	5890	ug/kg dry	200	---	77800	---	---	0.7	30%	
Indeno(1,2,3-cd)pyrene	ND	2930	5890	ug/kg dry	200	---	ND	---	---	---	30%	
1-Methylnaphthalene	6420	5890	11800	ug/kg dry	200	---	6510	---	---	2	30%	J
2-Methylnaphthalene	6130	5890	11800	ug/kg dry	200	---	ND	---	---	---	30%	J, Q-17
Naphthalene	54800	5890	11800	ug/kg dry	200	---	58900	---	---	7	30%	
Phenanthrene	169000	2930	5890	ug/kg dry	200	---	172000	---	---	2	30%	
Pyrene	ND	2930	5890	ug/kg dry	200	---	ND	---	---	---	30%	
Carbazole	46400	4410	8820	ug/kg dry	200	---	47700	---	---	3	30%	
Dibenzofuran	14400	2930	5890	ug/kg dry	200	---	13800	---	---	4	30%	
2-Chlorophenol	ND	14700	29300	ug/kg dry	200	---	ND	---	---	---	30%	
4-Chloro-3-methylphenol	ND	29300	58900	ug/kg dry	200	---	ND	---	---	---	30%	
2,4-Dichlorophenol	ND	14700	29300	ug/kg dry	200	---	ND	---	---	---	30%	
2,4-Dimethylphenol	ND	14700	29300	ug/kg dry	200	---	ND	---	---	---	30%	
2,4-Dinitrophenol	ND	73500	147000	ug/kg dry	200	---	ND	---	---	---	30%	
4,6-Dinitro-2-methylphenol	ND	73500	147000	ug/kg dry	200	---	ND	---	---	---	30%	
2-Methylphenol	ND	7350	14700	ug/kg dry	200	---	ND	---	---	---	30%	
3+4-Methylphenol(s)	ND	7350	14700	ug/kg dry	200	---	ND	---	---	---	30%	
2-Nitrophenol	ND	29300	58900	ug/kg dry	200	---	ND	---	---	---	30%	
4-Nitrophenol	ND	29300	58900	ug/kg dry	200	---	ND	---	---	---	30%	
Pentachlorophenol (PCP)	ND	29300	58900	ug/kg dry	200	---	ND	---	---	---	30%	
Phenol	ND	5890	11800	ug/kg dry	200	---	ND	---	---	---	30%	

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3A0849 - 02 08 23 1514
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1133 - EPA 3546						Solid						
Duplicate (23A1133-DUP1)			Prepared: 01/31/23 15:48 Analyzed: 02/02/23 13:23									
QC Source Sample: Non-SDG (A3A0848-01)												
2,3,4,6-Tetrachlorophenol	ND	14700	29300	ug/kg dry	200	---	ND	---	---	---	30%	
2,3,5,6-Tetrachlorophenol	ND	14700	29300	ug/kg dry	200	---	ND	---	---	---	30%	
2,4,5-Trichlorophenol	ND	14700	29300	ug/kg dry	200	---	ND	---	---	---	30%	
Nitrobenzene	ND	29300	58900	ug/kg dry	200	---	ND	---	---	---	30%	
2,4,6-Trichlorophenol	ND	14700	29300	ug/kg dry	200	---	ND	---	---	---	30%	
Bis(2-ethylhexyl)phthalate	ND	44100	88200	ug/kg dry	200	---	ND	---	---	---	30%	
Butyl benzyl phthalate	ND	29300	58900	ug/kg dry	200	---	ND	---	---	---	30%	
Diethylphthalate	ND	29300	58900	ug/kg dry	200	---	ND	---	---	---	30%	
Dimethylphthalate	ND	29300	58900	ug/kg dry	200	---	ND	---	---	---	30%	
Di-n-butylphthalate	ND	29300	58900	ug/kg dry	200	---	ND	---	---	---	30%	
Di-n-octyl phthalate	ND	29300	58900	ug/kg dry	200	---	ND	---	---	---	30%	
N-Nitrosodimethylamine	ND	7350	14700	ug/kg dry	200	---	ND	---	---	---	30%	
N-Nitroso-di-n-propylamine	ND	14700	14700	ug/kg dry	200	---	ND	---	---	---	30%	
N-Nitrosodiphenylamine	ND	7350	14700	ug/kg dry	200	---	ND	---	---	---	30%	
Bis(2-Chloroethoxy) methane	ND	7350	14700	ug/kg dry	200	---	ND	---	---	---	30%	
Bis(2-Chloroethyl) ether	ND	7350	14700	ug/kg dry	200	---	ND	---	---	---	30%	
2,2'-Oxybis(1-Chloropropane)	ND	7350	14700	ug/kg dry	200	---	ND	---	---	---	30%	
Hexachlorobenzene	ND	2930	5890	ug/kg dry	200	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	7350	14700	ug/kg dry	200	---	ND	---	---	---	30%	
Hexachlorocyclopentadiene	ND	14700	29300	ug/kg dry	200	---	ND	---	---	---	30%	
Hexachloroethane	ND	7350	14700	ug/kg dry	200	---	ND	---	---	---	30%	
2-Chloronaphthalene	ND	2930	5890	ug/kg dry	200	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	7350	14700	ug/kg dry	200	---	ND	---	---	---	30%	
4-Bromophenyl phenyl ether	ND	7350	14700	ug/kg dry	200	---	ND	---	---	---	30%	
4-Chlorophenyl phenyl ether	ND	7350	14700	ug/kg dry	200	---	ND	---	---	---	30%	
Aniline	ND	14700	29300	ug/kg dry	200	---	ND	---	---	---	30%	
4-Chloroaniline	ND	7350	14700	ug/kg dry	200	---	ND	---	---	---	30%	
2-Nitroaniline	ND	58900	118000	ug/kg dry	200	---	ND	---	---	---	30%	
3-Nitroaniline	ND	58900	118000	ug/kg dry	200	---	ND	---	---	---	30%	
4-Nitroaniline	ND	58900	118000	ug/kg dry	200	---	ND	---	---	---	30%	
2,4-Dinitrotoluene	ND	29300	58900	ug/kg dry	200	---	ND	---	---	---	30%	
2,6-Dinitrotoluene	ND	29300	58900	ug/kg dry	200	---	ND	---	---	---	30%	
Benzoic acid	ND	368000	735000	ug/kg dry	200	---	ND	---	---	---	30%	

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-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1133 - EPA 3546						Solid						
Duplicate (23A1133-DUP1)			Prepared: 01/31/23 15:48 Analyzed: 02/02/23 13:23									
QC Source Sample: Non-SDG (A3A0848-01)												
Benzyl alcohol	ND	14700	29300	ug/kg dry	200	---	ND	---	---	---	30%	
Isophorone	ND	24500	24500	ug/kg dry	200	---	ND	---	---	---	30%	R-02
Azobenzene (1,2-DPH)	ND	7350	14700	ug/kg dry	200	---	ND	---	---	---	30%	
Bis(2-Ethylhexyl) adipate	ND	73500	147000	ug/kg dry	200	---	ND	---	---	---	30%	
3,3'-Dichlorobenzidine	ND	58900	118000	ug/kg dry	200	---	ND	---	---	---	30%	Q-52
1,2-Dinitrobenzene	ND	73500	147000	ug/kg dry	200	---	ND	---	---	---	30%	
1,3-Dinitrobenzene	ND	73500	147000	ug/kg dry	200	---	ND	---	---	---	30%	
1,4-Dinitrobenzene	ND	73500	147000	ug/kg dry	200	---	ND	---	---	---	30%	
Pyridine	ND	14700	29300	ug/kg dry	200	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	7350	14700	ug/kg dry	200	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	7350	14700	ug/kg dry	200	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	7350	14700	ug/kg dry	200	---	ND	---	---	---	30%	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 110 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 200x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>61 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>%</i>		<i>33-122 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>81 %</i>		<i>54-127 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>159 %</i>		<i>35-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>%</i>		<i>39-132 %</i>		<i>"</i>						

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-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0990 - EPA 3051A						Solid						
Blank (23A0990-BLK1)			Prepared: 01/27/23 07:31 Analyzed: 01/27/23 15:48									
<u>EPA 6020B</u>												
Arsenic	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Barium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	100	200	ug/kg wet	10	---	---	---	---	---	---	
Chromium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Lead	ND	100	200	ug/kg wet	10	---	---	---	---	---	---	
Mercury	ND	40.0	80.0	ug/kg wet	10	---	---	---	---	---	---	
Selenium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Silver	ND	100	200	ug/kg wet	10	---	---	---	---	---	---	
<hr/>												
LCS (23A0990-BS1)			Prepared: 01/27/23 07:31 Analyzed: 01/27/23 15:53									
<u>EPA 6020B</u>												
Arsenic	46900	500	1000	ug/kg wet	10	50000	---	94	80-120%	---	---	
Barium	47300	500	1000	ug/kg wet	10	50000	---	95	80-120%	---	---	
Cadmium	49200	100	200	ug/kg wet	10	50000	---	98	80-120%	---	---	
Chromium	46900	500	1000	ug/kg wet	10	50000	---	94	80-120%	---	---	
Lead	48900	100	200	ug/kg wet	10	50000	---	98	80-120%	---	---	
Mercury	943	40.0	80.0	ug/kg wet	10	1000	---	94	80-120%	---	---	
Selenium	23300	500	1000	ug/kg wet	10	25000	---	93	80-120%	---	---	
Silver	25300	100	200	ug/kg wet	10	25000	---	101	80-120%	---	---	
<hr/>												
Duplicate (23A0990-DUP1)			Prepared: 01/27/23 07:31 Analyzed: 01/27/23 16:13									
<u>QC Source Sample: Non-SDG (A3A0848-01)</u>												
Arsenic	231000	5420	10800	ug/kg dry	10	---	222000	---	---	4	20%	
Barium	119000	5420	10800	ug/kg dry	10	---	118000	---	---	0.2	20%	
Cadmium	ND	1080	2170	ug/kg dry	10	---	ND	---	---	---	20%	
Chromium	35600	5420	10800	ug/kg dry	10	---	35200	---	---	1	20%	
Lead	5670	1080	2170	ug/kg dry	10	---	6140	---	---	8	20%	
Mercury	ND	434	867	ug/kg dry	10	---	ND	---	---	---	20%	
Selenium	ND	5420	10800	ug/kg dry	10	---	ND	---	---	---	20%	
Silver	ND	1080	2170	ug/kg dry	10	---	ND	---	---	---	20%	
<hr/>												
Matrix Spike (23A0990-MS1)			Prepared: 01/27/23 07:31 Analyzed: 01/27/23 16:18									

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0990 - EPA 3051A						Solid						
Matrix Spike (23A0990-MS1)						Prepared: 01/27/23 07:31 Analyzed: 01/27/23 16:18						
QC Source Sample: Non-SDG (A3A0848-01)												
EPA 6020B												
Arsenic	745000	5600	11200	ug/kg dry	10	560000	222000	93	75-125%	---	---	
Barium	641000	5600	11200	ug/kg dry	10	560000	118000	93	75-125%	---	---	
Cadmium	553000	1120	2240	ug/kg dry	10	560000	ND	99	75-125%	---	---	
Chromium	556000	5600	11200	ug/kg dry	10	560000	35200	93	75-125%	---	---	
Lead	552000	1120	2240	ug/kg dry	10	560000	6140	97	75-125%	---	---	
Mercury	10900	448	897	ug/kg dry	10	11200	ND	97	75-125%	---	---	
Selenium	258000	5600	11200	ug/kg dry	10	280000	ND	92	75-125%	---	---	
Silver	282000	1120	2240	ug/kg dry	10	280000	ND	101	75-125%	---	---	

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Darwin Thomas, Business Development Director



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QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1122 - EPA 1311/3015A						Solid						
Blank (23A1122-BLK2)			Prepared: 01/31/23 12:21 Analyzed: 02/04/23 03:41									
1311/6020B												
Arsenic	ND	50.0	100	ug/L	10	---	---	---	---	---	---	Q-16, TCLP
Barium	ND	2500	5000	ug/L	10	---	---	---	---	---	---	Q-16, TCLP
Cadmium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	Q-16, TCLP
Chromium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	Q-16, TCLP
Lead	ND	25.0	50.0	ug/L	10	---	---	---	---	---	---	Q-16, TCLP
Mercury	ND	3.75	7.00	ug/L	10	---	---	---	---	---	---	Q-16, TCLP
Selenium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	Q-16, TCLP
Silver	ND	50.0	100	ug/L	10	---	---	---	---	---	---	Q-16, TCLP
LCS (23A1122-BS2)												
										Prepared: 01/31/23 12:21 Analyzed: 02/04/23 03:47		
1311/6020B												
Arsenic	2700	50.0	100	ug/L	10	2500	---	108	80-120%	---	---	Q-16, TCLP
Barium	5670	2500	5000	ug/L	10	5000	---	113	80-120%	---	---	Q-16, TCLP
Cadmium	523	50.0	100	ug/L	10	500	---	105	80-120%	---	---	Q-16, TCLP
Chromium	2700	50.0	100	ug/L	10	2500	---	108	80-120%	---	---	Q-16, TCLP
Lead	2800	25.0	50.0	ug/L	10	2500	---	112	80-120%	---	---	Q-16, TCLP
Mercury	50.0	3.75	7.00	ug/L	10	50.0	---	100	80-120%	---	---	Q-16, TCLP
Selenium	515	50.0	100	ug/L	10	500	---	103	80-120%	---	---	Q-16, TCLP
Silver	560	50.0	100	ug/L	10	500	---	112	80-120%	---	---	Q-16, TCLP
Duplicate (23A1122-DUP2)												
										Prepared: 01/31/23 12:21 Analyzed: 02/04/23 03:58		
QC Source Sample: FC-012323-2053 (A3A0849-01RE1)												
1311/6020B												
Arsenic	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	Q-16
Barium	ND	2500	5000	ug/L	10	---	ND	---	---	---	20%	Q-16
Cadmium	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	Q-16
Chromium	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	Q-16
Lead	ND	25.0	50.0	ug/L	10	---	ND	---	---	---	20%	Q-16
Mercury	ND	3.75	7.00	ug/L	10	---	ND	---	---	---	20%	Q-16
Selenium	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	Q-16
Silver	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	Q-16
Matrix Spike (23A1122-MS2)												
										Prepared: 01/31/23 12:21 Analyzed: 02/04/23 04:04		

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3A0849 - 02 08 23 1514
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1122 - EPA 1311/3015A						Solid						
Matrix Spike (23A1122-MS2)						Prepared: 01/31/23 12:21 Analyzed: 02/04/23 04:04						
QC Source Sample: FC-012323-2053 (A3A0849-01RE1)												
1311/6020B												
Arsenic	2650	50.0	100	ug/L	10	2500	ND	106	50-150%	---	---	Q-16
Barium	6120	2500	5000	ug/L	10	5000	ND	122	50-150%	---	---	Q-16
Cadmium	516	50.0	100	ug/L	10	500	ND	103	50-150%	---	---	Q-16
Chromium	2660	50.0	100	ug/L	10	2500	ND	107	50-150%	---	---	Q-16
Lead	2690	25.0	50.0	ug/L	10	2500	ND	108	50-150%	---	---	Q-16
Mercury	50.2	3.75	7.00	ug/L	10	50.0	ND	100	50-150%	---	---	Q-16
Selenium	534	50.0	100	ug/L	10	500	ND	107	50-150%	---	---	Q-16
Silver	551	50.0	100	ug/L	10	500	ND	110	50-150%	---	---	Q-16

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QUALITY CONTROL (QC) SAMPLE RESULTS

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23B0070 - ASTM D7511-12mod (S)						Soil						
Blank (23B0070-BLK1)						Prepared: 02/02/23 09:12 Analyzed: 02/02/23 15:55						
<u>D7511-12</u>												
Total Cyanide	ND	50.0	100	ug/kg wet	1	---	---	---	---	---	---	
LCS (23B0070-BS1)						Prepared: 02/02/23 09:12 Analyzed: 02/02/23 15:57						
<u>D7511-12</u>												
Total Cyanide	431	50.0	100	ug/kg wet	1	400	---	108	84-116%	---	---	
Matrix Spike (23B0070-MS1)						Prepared: 02/02/23 09:12 Analyzed: 02/02/23 16:09						
<u>QC Source Sample: Non-SDG (A3A0848-01)</u>												
<u>D7511-12</u>												
Total Cyanide	27100	2770	5530	ug/kg dry	5	4430	24500	59	64-136%	---	---	Q-03
Matrix Spike Dup (23B0070-MSD1)						Prepared: 02/02/23 09:12 Analyzed: 02/02/23 16:11						
<u>QC Source Sample: Non-SDG (A3A0848-01)</u>												
Total Cyanide	25100	2750	5510	ug/kg dry	5	4410	24500	13	64-136%	8	47%	Q-03

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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1010 - Total Solids (Dry Weight) Soil												
Duplicate (23A1010-DUP1)			Prepared: 01/27/23 10:45 Analyzed: 01/30/23 07:00									
<u>QC Source Sample: Non-SDG (A3A0872-01)</u>												
% Solids	77.7	---	1.00	%	1	---	77.4	---	---	0.3	10%	
Duplicate (23A1010-DUP2)			Prepared: 01/27/23 10:45 Analyzed: 01/30/23 07:00									
<u>QC Source Sample: Non-SDG (A3A0872-03)</u>												
% Solids	76.9	---	1.00	%	1	---	77.3	---	---	0.6	10%	
Duplicate (23A1010-DUP3)			Prepared: 01/27/23 10:45 Analyzed: 01/30/23 07:00									
<u>QC Source Sample: Non-SDG (A3A0872-05)</u>												
% Solids	76.8	---	1.00	%	1	---	76.1	---	---	0.9	10%	
Duplicate (23A1010-DUP4)			Prepared: 01/27/23 16:18 Analyzed: 01/30/23 07:00									
<u>QC Source Sample: Non-SDG (A3A0820-02)</u>												
% Solids	94.5	---	1.00	%	1	---	94.5	---	---	0.04	10%	PRO
Duplicate (23A1010-DUP5)			Prepared: 01/27/23 18:36 Analyzed: 01/30/23 07:00									
<u>QC Source Sample: Non-SDG (A3A0953-01)</u>												
% Solids	82.1	---	1.00	%	1	---	84.3	---	---	3	10%	
Duplicate (23A1010-DUP6)			Prepared: 01/27/23 18:36 Analyzed: 01/30/23 07:00									
<u>QC Source Sample: Non-SDG (A3A0953-02)</u>												
% Solids	80.8	---	1.00	%	1	---	79.0	---	---	2	10%	
Duplicate (23A1010-DUP7)			Prepared: 01/27/23 18:36 Analyzed: 01/30/23 07:00									
<u>QC Source Sample: Non-SDG (A3A0954-01)</u>												
% Solids	80.8	---	1.00	%	1	---	79.8	---	---	1	10%	
Duplicate (23A1010-DUP8)			Prepared: 01/27/23 20:24 Analyzed: 01/30/23 07:00									
<u>QC Source Sample: Non-SDG (A3A0965-01)</u>												
% Solids	78.4	---	1.00	%	1	---	78.7	---	---	0.5	10%	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3A0849 - 02 08 23 1514
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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1010 - Total Solids (Dry Weight)						Soil						
Duplicate (23A1010-DUP9)						Prepared: 01/27/23 20:24 Analyzed: 01/30/23 07:00						
<u>QC Source Sample: Non-SDG (A3A0965-02)</u>												
% Solids	77.2	---	1.00	%	1	---	77.7	---	---	0.7	10%	
Duplicate (23A1010-DUPA)						Prepared: 01/27/23 20:24 Analyzed: 01/30/23 07:00						
<u>QC Source Sample: Non-SDG (A3A0965-03)</u>												
% Solids	80.2	---	1.00	%	1	---	80.9	---	---	0.8	10%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23A0938</u>							
A3A0849-01	Solid	NWTPH-Dx	01/23/23 23:45	01/26/23 06:24	10.01g/5mL	10g/5mL	1.00

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23A1004</u>							
A3A0849-01	Solid	NWTPH-Gx (MS)	01/23/23 23:45	01/25/23 13:15	1.26g/5mL	5g/5mL	3.97

Volatile Organic Compounds by EPA 8260D

Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23A1004</u>							
A3A0849-01	Solid	5035A/8260D	01/23/23 23:45	01/25/23 13:15	1.26g/5mL	5g/5mL	3.97

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Prep: EPA 1311/5030B TCLP Volatiles					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23B0150</u>							
A3A0849-01	Solid	1311/8260D	01/23/23 23:45	02/03/23 12:06	5mL/5mL	5mL/5mL	1.00

Semivolatile Organic Compounds by EPA 8270E

Prep: EPA 3546					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23A1133</u>							
A3A0849-01	Solid	EPA 8270E	01/23/23 23:45	01/31/23 15:48	15.31g/2mL	15g/2mL	0.98

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3051A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23A0990</u>							
A3A0849-01	Solid	EPA 6020B	01/23/23 23:45	01/27/23 07:31	0.518g/50mL	0.5g/50mL	0.97

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3A0849 - 02 08 23 1514
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SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3051A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor

TCLP Metals by EPA 6020B (ICPMS)

Prep: EPA 1311/3015A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23A1122</u>							
A3A0849-01RE1	Solid	1311/6020B	01/23/23 23:45	01/31/23 12:21	10mL/50mL	10mL/50mL	1.00

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Prep: ASTM D7511-12mod (S)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23B0070</u>							
A3A0849-01	Solid	D7511-12	01/23/23 23:45	02/02/23 09:12	2.533g/50mL	2.5g/50mL	0.99

Percent Dry Weight

Prep: Total Solids (Dry Weight)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23A1010</u>							
A3A0849-01	Solid	EPA 8000D	01/23/23 23:45	01/27/23 10:45			NA

TCLP Extraction by EPA 1311 (ZHE)

Prep: EPA 1311 TCLP/ZHE					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23B0049</u>							
A3A0849-01	Solid	EPA 1311 ZHE	01/23/23 23:45	02/01/23 15:05	20.8g/398.5g	25g/500g	NA

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Sevenson Environmental Services, Inc.
2749 Lockport Road
Niagara Falls, NY 14305

Project: **Gasco -- Filtercake**
Project Number: **111323**
Project Manager: **Chip Byrd**

Report ID:
A3A0849 - 02 08 23 1514

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

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- F-13** The chromatographic pattern does not resemble the fuel standard used for quantitation
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- M-05** Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
- PRO** Sample has undergone sample processing prior to extraction and analysis.
- Q-03** Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
- Q-16** Reanalysis of an original Batch QC sample.
- Q-17** RPD between original and duplicate sample is outside of established control limits.
- Q-18** Matrix Spike results for this extraction batch are not reported due to the high dilution necessary for analysis of the source sample.
- Q-29** Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
- Q-31** Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
- Q-41** Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- Q-52** Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
- Q-54** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +2%. The results are reported as Estimated Values.
- Q-54a** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +22%. The results are reported as Estimated Values.
- Q-54b** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +26%. The results are reported as Estimated Values.
- Q-54c** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +46%. The results are reported as Estimated Values.
- Q-54d** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +96%. The results are reported as Estimated Values.
- Q-54e** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -1%. The results are reported as Estimated Values.
- Q-55** Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
- Q-56** Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.

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- S-01 Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
- S-05 Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- TCLP This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23A1089.
- TCLPa This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23B0049.
- V-15 Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

- DET Analyte DETECTED at or above the detection or reporting limit.
- ND Analyte NOT DETECTED at or above the detection or reporting limit.
- NR Result Not Reported
- RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

- Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.
- " dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
- " wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
- " " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

- " --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- " *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

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Table with 3 columns: Client (Sevenson Environmental Services, Inc.), Project (Gasco -- Filtercake), and Report ID (A3A0849 - 02 08 23 1514).

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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Table with 3 columns: Client (Sevenson Environmental Services, Inc.), Project (Gasco -- Filtercake), and Report ID (A3A0849 - 02 08 23 1514).

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -
EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

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Table header with columns: Matrix, Analysis, TNI_ID, Analyte, TNI_ID, Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Handwritten signature of Darwin Thomas

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc.
2749 Lockport Road
Niagara Falls, NY 14305

Project: Gasco -- Filtercake
Project Number: **111323**
Project Manager: **Chip Byrd**

Report ID:
A3A0849 - 02 08 23 1514

<p>APEX LABS 12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333 Company: Sevenson Environmental Services, Inc. Address: 2749 Lockport Road, Niagara Falls, NY 14305 Sampled by: <i>Nathaniel Savage</i></p>	<p>Lab # <u>113084</u> COC ___ of ___ <i>(Signature)</i></p>	<p>Project Mgr: Chip Byrd Project Name: Gasco -- Filtercake Project # 111323 Phone: (716) 583-2754 Fax: E-mail: <i>wbyrd@sevenson.com</i></p>																													
	<p>CHAIN OF CUSTODY</p>																														
	<p>ANALYSIS REQUEST</p>																														
	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>LAB ID #</th> <th>DATE</th> <th>TIME</th> <th>MATRIX</th> <th># OF CONTAINERS</th> <th>8260 VOCs</th> <th>1311/8260 TCLP VOCs</th> <th>8270D LL Fill List</th> <th>Dry Weight</th> <th>Metals, RCRA 8</th> <th>Metals, TPCL</th> <th>Total Cyanide</th> <th>NWTFH-DX</th> <th>NWTFH-GX</th> </tr> </thead> <tbody> <tr> <td>FC-012323-2053</td> <td></td> <td>1/23/23</td> <td>13:45</td> <td>S</td> <td>1</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> </tbody> </table>		SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	8260 VOCs	1311/8260 TCLP VOCs	8270D LL Fill List	Dry Weight	Metals, RCRA 8	Metals, TPCL	Total Cyanide	NWTFH-DX	NWTFH-GX	FC-012323-2053		1/23/23	13:45	S	1	X	X	X	X	X	X	X	X
SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	8260 VOCs	1311/8260 TCLP VOCs	8270D LL Fill List	Dry Weight	Metals, RCRA 8	Metals, TPCL	Total Cyanide	NWTFH-DX	NWTFH-GX																	
FC-012323-2053		1/23/23	13:45	S	1	X	X	X	X	X	X	X	X	X																	
<p>SPECIAL INSTRUCTIONS:</p>																															
<p>Normal Turn Around Time (TAT) = 6-10 Business Days</p> <p>TAT Requested (circle): 1 DAY 2 DAY 3 DAY 4 DAY 5 DAY (STD) Other: _____</p>	<p>SAMPLES ARE HELD FOR 30 DAYS</p> <p>RELINQUISHED BY: Signature: <i>(Signature)</i> Date: 1/25/23 Printed Name: <i>Nathaniel Savage</i> Time: 1005 Company: <i>SES</i></p>																														
<p>RECEIVED BY: Signature: <i>(Signature)</i> Date: 1/25/23 Printed Name: <i>Chip Byrd</i> Time: 1005 Company: <i>APEX LABS</i></p>		<p>RECEIVED BY: Signature: Date: Printed Name: Time: Company:</p>																													

Apex Laboratories

(Signature)

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3A0849 - 02 08 23 1514
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

APEX LABS COOLER RECEIPT FORM

Client: Sevenson Environmental Services, Inc. Element WO#: A3 A0849

Project/Project #: Gasco-Filtercake 111323

Delivery Info:
 Date/time received: 1/25/23 @ 1005 By: EST
 Delivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen Other _____

Cooler Inspection Date/time inspected: 1/25/23 @ 1052 By: EST
 Chain of Custody included? Yes No _____
 Signed/dated by client? Yes No _____

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>2.6</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>Y</u>						
Ice type: (Gel/Real/Other)	<u>Gel</u>						
Condition (In/Out):	<u>In</u>						

Cooler out of temp? (Y/N) Possible reason why: _____
 Green dots applied to out of temperature samples? Yes No
 Out of temperature samples form initiated? Yes No
Sample Inspection: Date/time inspected: 1/25/23 @ 1240 By: JS
 All samples intact? Yes No _____ Comments: _____

Bottle labels/COCs agree? Yes _____ No Comments: Container reads #2053

COC/container discrepancies form initiated? Yes _____ No
 Containers/volumes received appropriate for analysis? Yes No _____ Comments: _____

Do VOA vials have visible headspace? Yes _____ No _____ NA
 Comments: _____

Water samples: pH checked: Yes _____ No _____ NA pH appropriate? Yes _____ No _____ NA
 Comments: _____

Additional information:

Labeled by: JS Witness: AKC Cooler Inspected by: JS

Form Y-003 R-00

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Tuesday, March 28, 2023

Chip Byrd
Sevenson Environmental Services, Inc.
2749 Lockport Road
Niagara Falls, NY 14305

RE: A3B0682 - Gasco -- Filtercake - 111323

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3B0682, which was received by the laboratory on 2/21/2023 at 10:00:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler 2.8 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3B0682 - 03 28 23 0832
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FC-022023-2067	A3B0682-01	Solid	02/20/23 13:30	02/21/23 10:00

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 503-718-2323
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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3B0682 - 03 28 23 0832
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-022023-2067 (A3B0682-01)				Matrix: Solid		Batch: 23C0014		
Diesel	5100000	427000	855000	ug/kg dry	10	03/01/23 21:48	NWTPH-Dx	F-13
Oil	ND	855000	1710000	ug/kg dry	10	03/01/23 21:48	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: %</i>	<i>Limits: 50-150 %</i>	<i>10</i>	<i>03/01/23 21:48</i>	<i>NWTPH-Dx</i>	<i>S-02</i>

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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-022023-2067 (A3B0682-01)				Matrix: Solid		Batch: 23B0779		V-15
Gasoline Range Organics	161000	38000	75900	ug/kg dry	100	02/21/23 19:57	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 102 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>02/21/23 19:57</i>	<i>NWTPH-Gx (MS)</i>
<i>1,4-Difluorobenzene (Sur)</i>		<i>99 %</i>		<i>50-150 %</i>		<i>1</i>	<i>02/21/23 19:57</i>	<i>NWTPH-Gx (MS)</i>

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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-022023-2067 (A3B0682-01)				Matrix: Solid		Batch: 23B0779		V-15
Acetone	ND	7590	15200	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
Acrylonitrile	ND	759	1520	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
Benzene	159	75.9	152	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
Bromobenzene	ND	190	380	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
Bromochloromethane	ND	380	759	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
Bromodichloromethane	ND	380	759	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
Bromoform	ND	759	1520	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
Bromomethane	ND	7590	7590	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
2-Butanone (MEK)	ND	3800	7590	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
n-Butylbenzene	ND	380	759	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
sec-Butylbenzene	ND	380	759	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
tert-Butylbenzene	ND	380	759	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
Carbon disulfide	ND	3800	7590	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
Carbon tetrachloride	ND	380	759	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
Chlorobenzene	ND	190	380	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
Chloroethane	ND	3800	7590	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
Chloroform	ND	380	759	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
Chloromethane	ND	1900	3800	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
2-Chlorotoluene	ND	380	759	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
4-Chlorotoluene	ND	380	759	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
Dibromochloromethane	ND	759	1520	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	1900	3800	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	380	759	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
Dibromomethane	ND	380	759	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
1,2-Dichlorobenzene	ND	190	380	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
1,3-Dichlorobenzene	ND	190	380	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
1,4-Dichlorobenzene	ND	190	380	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
Dichlorodifluoromethane	ND	1520	1520	ug/kg dry	100	02/21/23 19:57	5035A/8260D	ICV-02
1,1-Dichloroethane	ND	190	380	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	190	380	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
1,1-Dichloroethene	ND	190	380	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
cis-1,2-Dichloroethene	ND	190	380	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
trans-1,2-Dichloroethene	ND	190	380	ug/kg dry	100	02/21/23 19:57	5035A/8260D	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3B0682 - 03 28 23 0832
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-022023-2067 (A3B0682-01)				Matrix: Solid		Batch: 23B0779		V-15
1,2-Dichloropropane	ND	190	380	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
1,3-Dichloropropane	ND	380	759	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
2,2-Dichloropropane	ND	380	759	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
1,1-Dichloropropene	ND	380	759	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
cis-1,3-Dichloropropene	ND	380	759	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
trans-1,3-Dichloropropene	ND	380	759	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
Ethylbenzene	304	190	380	ug/kg dry	100	02/21/23 19:57	5035A/8260D	J
Hexachlorobutadiene	ND	759	1520	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
2-Hexanone	ND	3800	7590	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
Isopropylbenzene	ND	380	759	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
4-Isopropyltoluene	ND	380	759	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
Methylene chloride	ND	3800	7590	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
4-Methyl-2-pentanone (MIBK)	ND	3800	7590	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	380	759	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
Naphthalene	1810	759	1520	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
n-Propylbenzene	ND	190	380	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
Styrene	ND	380	759	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	190	380	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
1,1,1,2,2-Tetrachloroethane	ND	380	759	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
Tetrachloroethene (PCE)	ND	190	380	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
Toluene	ND	380	759	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
1,2,3-Trichlorobenzene	ND	1900	3800	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
1,2,4-Trichlorobenzene	ND	1900	3800	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
1,1,1-Trichloroethane	ND	190	380	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
1,1,2-Trichloroethane	ND	190	380	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
Trichloroethene (TCE)	ND	190	380	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
Trichlorofluoromethane	ND	759	1520	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
1,2,3-Trichloropropane	ND	380	759	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
1,2,4-Trimethylbenzene	683	380	759	ug/kg dry	100	02/21/23 19:57	5035A/8260D	J
1,3,5-Trimethylbenzene	ND	380	759	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
Vinyl chloride	ND	190	380	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
m,p-Xylene	ND	380	759	ug/kg dry	100	02/21/23 19:57	5035A/8260D	
o-Xylene	220	190	380	ug/kg dry	100	02/21/23 19:57	5035A/8260D	J

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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-022023-2067 (A3B0682-01)				Matrix: Solid		Batch: 23B0779		V-15
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>02/21/23 19:57</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>	<i>1</i>	<i>02/21/23 19:57</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>79-120 %</i>	<i>1</i>	<i>02/21/23 19:57</i>	<i>5035A/8260D</i>	

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Darwin Thomas, Business Development Director



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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3B0682 - 03 28 23 0832
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ANALYTICAL SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-022023-2067 (A3B0682-01)				Matrix: Solid		Batch: 23C0157		Q-44a
Benzene	ND	6.25	12.5	ug/L	50	03/04/23 04:15	1311/8260D	
2-Butanone (MEK)	ND	250	500	ug/L	50	03/04/23 04:15	1311/8260D	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	03/04/23 04:15	1311/8260D	
Chlorobenzene	ND	12.5	25.0	ug/L	50	03/04/23 04:15	1311/8260D	
Chloroform	ND	25.0	50.0	ug/L	50	03/04/23 04:15	1311/8260D	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	03/04/23 04:15	1311/8260D	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	03/04/23 04:15	1311/8260D	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	03/04/23 04:15	1311/8260D	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	03/04/23 04:15	1311/8260D	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	03/04/23 04:15	1311/8260D	
Vinyl chloride	ND	12.5	25.0	ug/L	50	03/04/23 04:15	1311/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>03/04/23 04:15</i>	<i>1311/8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>1</i>	<i>03/04/23 04:15</i>	<i>1311/8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>1</i>	<i>03/04/23 04:15</i>	<i>1311/8260D</i>

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3B0682 - 03 28 23 0832
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-022023-2067 (A3B0682-01)				Matrix: Solid		Batch: 23C0015		
Acenaphthene	51600	1140	2280	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Acenaphthylene	ND	4780	4780	ug/kg dry	200	03/02/23 02:52	EPA 8270E	R-02
Anthracene	43800	1140	2280	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Benz(a)anthracene	25000	1140	2280	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Benzo(a)pyrene	27400	1710	3420	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Benzo(b)fluoranthene	23200	1710	3420	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Benzo(k)fluoranthene	7890	1710	3420	ug/kg dry	200	03/02/23 02:52	EPA 8270E	M-05
Benzo(g,h,i)perylene	16100	1140	2280	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Chrysene	33400	1140	2280	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Dibenz(a,h)anthracene	1700	1140	2280	ug/kg dry	200	03/02/23 02:52	EPA 8270E	J
Fluoranthene	114000	1140	2280	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Fluorene	35400	1140	2280	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Indeno(1,2,3-cd)pyrene	14900	1140	2280	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
1-Methylnaphthalene	19600	2280	4550	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
2-Methylnaphthalene	16300	2280	4550	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Naphthalene	ND	2280	4550	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Phenanthrene	246000	1140	2280	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Pyrene	134000	1140	2280	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Carbazole	ND	1710	3420	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Dibenzofuran	4360	1140	2280	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
2-Chlorophenol	ND	5690	11400	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
4-Chloro-3-methylphenol	ND	11400	22800	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
2,4-Dichlorophenol	ND	5690	11400	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
2,4-Dimethylphenol	ND	5690	11400	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
2,4-Dinitrophenol	ND	28400	56900	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	28400	56900	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
2-Methylphenol	ND	2840	5690	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
3+4-Methylphenol(s)	ND	2840	5690	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
2-Nitrophenol	ND	11400	22800	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
4-Nitrophenol	ND	22800	22800	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Pentachlorophenol (PCP)	ND	11400	22800	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Phenol	ND	2280	4550	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	5690	11400	ug/kg dry	200	03/02/23 02:52	EPA 8270E	

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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-022023-2067 (A3B0682-01)				Matrix: Solid		Batch: 23C0015		
2,3,5,6-Tetrachlorophenol	ND	5690	11400	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
2,4,5-Trichlorophenol	ND	5690	11400	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
2,4,6-Trichlorophenol	ND	5690	11400	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	17100	34200	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Butyl benzyl phthalate	ND	11400	22800	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Diethylphthalate	ND	11400	22800	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Dimethylphthalate	ND	11400	22800	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Di-n-butylphthalate	ND	11400	22800	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Di-n-octyl phthalate	ND	11400	22800	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
N-Nitrosodimethylamine	ND	2840	5690	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	2840	5690	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
N-Nitrosodiphenylamine	ND	5980	5980	ug/kg dry	200	03/02/23 02:52	EPA 8270E	R-02
Bis(2-Chloroethoxy) methane	ND	2840	5690	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	2840	5690	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	2840	5690	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Hexachlorobenzene	ND	1140	2280	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Hexachlorobutadiene	ND	2840	5690	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Hexachlorocyclopentadiene	ND	5690	11400	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Hexachloroethane	ND	2840	5690	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
2-Chloronaphthalene	ND	1140	2280	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
1,2,4-Trichlorobenzene	ND	2840	5690	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
4-Bromophenyl phenyl ether	ND	2840	5690	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	2840	5690	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Aniline	ND	5690	11400	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
4-Chloroaniline	ND	2840	5690	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
2-Nitroaniline	ND	22800	45500	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
3-Nitroaniline	ND	22800	45500	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
4-Nitroaniline	ND	22800	45500	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Nitrobenzene	ND	11400	22800	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
2,4-Dinitrotoluene	ND	11400	22800	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
2,6-Dinitrotoluene	ND	11400	22800	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Benzoic acid	ND	143000	284000	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Benzyl alcohol	ND	5690	11400	ug/kg dry	200	03/02/23 02:52	EPA 8270E	

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-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-022023-2067 (A3B0682-01)				Matrix: Solid		Batch: 23C0015		
Isophorone	ND	2840	5690	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Azobenzene (1,2-DPH)	ND	2840	5690	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	28400	56900	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
3,3'-Dichlorobenzidine	ND	22800	45500	ug/kg dry	200	03/02/23 02:52	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	28400	56900	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
1,3-Dinitrobenzene	ND	28400	56900	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
1,4-Dinitrobenzene	ND	28400	56900	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
Pyridine	ND	5690	11400	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
1,2-Dichlorobenzene	ND	2840	5690	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
1,3-Dichlorobenzene	ND	2840	5690	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
1,4-Dichlorobenzene	ND	2840	5690	ug/kg dry	200	03/02/23 02:52	EPA 8270E	
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>			<i>Recovery: 65 %</i>	<i>Limits: 37-122 %</i>	200	03/02/23 02:52	EPA 8270E	S-05
<i>2-Fluorobiphenyl (Surr)</i>			<i>74 %</i>	<i>44-120 %</i>	200	03/02/23 02:52	EPA 8270E	S-05
<i>Phenol-d6 (Surr)</i>			<i>19 %</i>	<i>33-122 %</i>	200	03/02/23 02:52	EPA 8270E	S-05
<i>p-Terphenyl-d14 (Surr)</i>			<i>89 %</i>	<i>54-127 %</i>	200	03/02/23 02:52	EPA 8270E	S-05
<i>2-Fluorophenol (Surr)</i>			<i>27 %</i>	<i>35-120 %</i>	200	03/02/23 02:52	EPA 8270E	S-05
<i>2,4,6-Tribromophenol (Surr)</i>			<i>120 %</i>	<i>39-132 %</i>	200	03/02/23 02:52	EPA 8270E	S-05

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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-022023-2067 (A3B0682-01)				Matrix: Solid				
Batch: 23C0066								
Arsenic	8430	2290	4580	ug/kg dry	10	03/03/23 01:26	EPA 6020B	
Barium	227000	2290	4580	ug/kg dry	10	03/03/23 01:26	EPA 6020B	
Cadmium	ND	458	917	ug/kg dry	10	03/03/23 01:26	EPA 6020B	
Chromium	ND	2290	4580	ug/kg dry	10	03/03/23 01:26	EPA 6020B	
Lead	ND	458	917	ug/kg dry	10	03/03/23 01:26	EPA 6020B	
Mercury	ND	183	367	ug/kg dry	10	03/03/23 01:26	EPA 6020B	
Selenium	ND	2290	4580	ug/kg dry	10	03/03/23 01:26	EPA 6020B	
Silver	ND	458	917	ug/kg dry	10	03/03/23 01:26	EPA 6020B	

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ANALYTICAL SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-022023-2067 (A3B0682-01)				Matrix: Solid				
<u>Batch: 23C0080</u>								
Arsenic	ND	50.0	100	ug/L	10	03/03/23 05:28	1311/6020B	Q-44b
Barium	ND	2500	5000	ug/L	10	03/03/23 05:28	1311/6020B	Q-44b
Cadmium	ND	50.0	100	ug/L	10	03/03/23 05:28	1311/6020B	Q-44b
Chromium	ND	50.0	100	ug/L	10	03/03/23 05:28	1311/6020B	Q-44b
Lead	ND	25.0	50.0	ug/L	10	03/03/23 05:28	1311/6020B	Q-44b
Mercury	ND	3.75	7.00	ug/L	10	03/03/23 05:28	1311/6020B	Q-44b
Selenium	ND	50.0	100	ug/L	10	03/03/23 05:28	1311/6020B	Q-44b
Silver	ND	50.0	100	ug/L	10	03/03/23 05:28	1311/6020B	Q-44b

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ANALYTICAL SAMPLE RESULTS

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-022023-2067 (A3B0682-01)				Matrix: Solid		Batch: 23C0029		
Total Cyanide	5420	434	868	ug/kg dry	2	03/02/23 15:38	D7511-12	

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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-022023-2067 (A3B0682-01)				Matrix: Solid		Batch: 23B0856		
% Solids	22.9	---	1.00	%	1	02/25/23 07:11	EPA 8000D	

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ANALYTICAL SAMPLE RESULTS

TCLP Extraction by EPA 1311

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-022023-2067 (A3B0682-01)				Matrix: Solid		Batch: 23C0028		
TCLP Extraction	PREP	---		N/A	1	03/01/23 15:30	EPA 1311	Q-44b
TCLP ZHE Extraction	0.00	---		N/A	1	03/01/23 16:30	EPA 1311 ZHE	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0014 - EPA 3546 (Fuels)						Solid						
Blank (23C0014-BLK1)						Prepared: 03/01/23 08:47 Analyzed: 03/01/23 20:06						
<u>NWTPH-Dx</u>												
Diesel	ND	10000	20000	ug/kg wet	1	---	---	---	---	---	---	
Oil	ND	20000	40000	ug/kg wet	1	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 86 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
LCS (23C0014-BS1)						Prepared: 03/01/23 08:47 Analyzed: 03/01/23 20:26						
<u>NWTPH-Dx</u>												
Diesel	112000	10000	20000	ug/kg wet	1	125000	---	90	38-132%	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 75 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
Duplicate (23C0014-DUP2)						Prepared: 03/01/23 08:47 Analyzed: 03/02/23 10:51						
<u>QC Source Sample: Non-SDG (A3B0613-01RE1)</u>												
Diesel	ND	837000	1670000	ug/kg wet	40	---	ND	---	---	---	30%	
Oil	6030000	1670000	3350000	ug/kg wet	40	---	11300000	---	---	61	30%	F-03, Q-04
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 40x</i>						S-01

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23B0779 - EPA 5035A						Soil						
Blank (23B0779-BLK1)						Prepared: 02/21/23 10:00 Analyzed: 02/21/23 14:51						
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	2500	5000	ug/kg wet	50	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 99 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>103 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (23B0779-BS2)						Prepared: 02/21/23 10:00 Analyzed: 02/21/23 14:25						
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	27900	2500	5000	ug/kg wet	50	25000	---	112	80-120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 102 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>103 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (23B0779-DUP1)						Prepared: 02/17/23 09:09 Analyzed: 02/21/23 15:42						
<u>QC Source Sample: Non-SDG (A3B0649-01)</u>												
Gasoline Range Organics	ND	2830	5650	ug/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 99 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>103 %</i>		<i>50-150 %</i>		<i>"</i>						

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3B0682 - 03 28 23 0832
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23B0779 - EPA 5035A						Soil						
Blank (23B0779-BLK1)			Prepared: 02/21/23 10:00 Analyzed: 02/21/23 14:51									
<u>5035A/8260D</u>												
Acetone	ND	500	1000	ug/kg wet	50	---	---	---	---	---	---	
Acrylonitrile	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Benzene	ND	5.00	10.0	ug/kg wet	50	---	---	---	---	---	---	
Bromobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Bromochloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromodichloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromoform	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Bromomethane	ND	500	500	ug/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
n-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Carbon disulfide	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Chloroethane	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chloromethane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromochloromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromomethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	100	100	ug/kg wet	50	---	---	---	---	---	---	ICV-02
1,1-Dichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3B0682 - 03 28 23 0832
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23B0779 - EPA 5035A						Soil						
Blank (23B0779-BLK1)			Prepared: 02/21/23 10:00 Analyzed: 02/21/23 14:51									
1,2-Dichloropropane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Methylene chloride	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Styrene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr)

Recovery: 101 % Limits: 80-120 %

Dilution: 1x

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3B0682 - 03 28 23 0832
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23B0779 - EPA 5035A						Soil						
Blank (23B0779-BLK1)						Prepared: 02/21/23 10:00 Analyzed: 02/21/23 14:51						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 99 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>79-120 %</i>		<i>"</i>						
LCS (23B0779-BS1)						Prepared: 02/21/23 10:00 Analyzed: 02/21/23 14:00						
5035A/8260D												
Acetone	2010	500	1000	ug/kg wet	50	2000	---	100	80-120%	---	---	
Acrylonitrile	1000	50.0	100	ug/kg wet	50	1000	---	100	80-120%	---	---	
Benzene	1030	5.00	10.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
Bromobenzene	992	12.5	25.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
Bromochloromethane	1080	25.0	50.0	ug/kg wet	50	1000	---	108	80-120%	---	---	
Bromodichloromethane	1050	25.0	50.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
Bromoform	1010	50.0	100	ug/kg wet	50	1000	---	101	80-120%	---	---	
Bromomethane	1310	500	500	ug/kg wet	50	1000	---	131	80-120%	---	---	Q-56
2-Butanone (MEK)	2170	250	500	ug/kg wet	50	2000	---	108	80-120%	---	---	
n-Butylbenzene	1030	25.0	50.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
sec-Butylbenzene	1030	25.0	50.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
tert-Butylbenzene	978	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Carbon disulfide	1010	250	500	ug/kg wet	50	1000	---	101	80-120%	---	---	
Carbon tetrachloride	1060	25.0	50.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
Chlorobenzene	986	12.5	25.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
Chloroethane	1330	250	500	ug/kg wet	50	1000	---	133	80-120%	---	---	Q-56
Chloroform	1060	25.0	50.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
Chloromethane	1040	125	250	ug/kg wet	50	1000	---	104	80-120%	---	---	
2-Chlorotoluene	984	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
4-Chlorotoluene	995	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Dibromochloromethane	1040	50.0	100	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,2-Dibromo-3-chloropropane	822	125	250	ug/kg wet	50	1000	---	82	80-120%	---	---	
1,2-Dibromoethane (EDB)	998	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Dibromomethane	1020	25.0	50.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
1,2-Dichlorobenzene	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
1,3-Dichlorobenzene	988	12.5	25.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
1,4-Dichlorobenzene	991	12.5	25.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
Dichlorodifluoromethane	1210	100	100	ug/kg wet	50	1000	---	121	80-120%	---	---	Q-56, ICV-02
1,1-Dichloroethane	1050	12.5	25.0	ug/kg wet	50	1000	---	105	80-120%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3B0682 - 03 28 23 0832
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23B0779 - EPA 5035A						Soil						
LCS (23B0779-BS1)			Prepared: 02/21/23 10:00 Analyzed: 02/21/23 14:00									
1,2-Dichloroethane (EDC)	1100	12.5	25.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
1,1-Dichloroethene	1130	12.5	25.0	ug/kg wet	50	1000	---	113	80-120%	---	---	
cis-1,2-Dichloroethene	1070	12.5	25.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
trans-1,2-Dichloroethene	1060	12.5	25.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
1,2-Dichloropropane	1060	12.5	25.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
1,3-Dichloropropane	1050	25.0	50.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
2,2-Dichloropropane	994	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
1,1-Dichloropropene	1070	25.0	50.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
cis-1,3-Dichloropropene	996	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
trans-1,3-Dichloropropene	1020	25.0	50.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
Ethylbenzene	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Hexachlorobutadiene	981	50.0	100	ug/kg wet	50	1000	---	98	80-120%	---	---	
2-Hexanone	1960	250	500	ug/kg wet	50	2000	---	98	80-120%	---	---	
Isopropylbenzene	1000	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
4-Isopropyltoluene	1000	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Methylene chloride	1060	250	500	ug/kg wet	50	1000	---	106	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	1980	250	500	ug/kg wet	50	2000	---	99	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	974	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
Naphthalene	986	50.0	100	ug/kg wet	50	1000	---	99	80-120%	---	---	
n-Propylbenzene	1030	12.5	25.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
Styrene	931	25.0	50.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
1,1,1,2-Tetrachloroethane	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
1,1,2,2-Tetrachloroethane	1070	25.0	50.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
Tetrachloroethene (PCE)	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Toluene	980	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
1,2,3-Trichlorobenzene	973	125	250	ug/kg wet	50	1000	---	97	80-120%	---	---	
1,2,4-Trichlorobenzene	986	125	250	ug/kg wet	50	1000	---	99	80-120%	---	---	
1,1,1-Trichloroethane	1060	12.5	25.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
1,1,2-Trichloroethane	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Trichloroethene (TCE)	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
Trichlorofluoromethane	1630	50.0	100	ug/kg wet	50	1000	---	163	80-120%	---	---	Q-56
1,2,3-Trichloropropane	996	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
1,2,4-Trimethylbenzene	996	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
1,3,5-Trimethylbenzene	1020	25.0	50.0	ug/kg wet	50	1000	---	102	80-120%	---	---	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3B0682 - 03 28 23 0832
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23B0779 - EPA 5035A						Soil						
LCS (23B0779-BS1)						Prepared: 02/21/23 10:00 Analyzed: 02/21/23 14:00						
Vinyl chloride	1210	12.5	25.0	ug/kg wet	50	1000	---	121	80-120%	---	---	Q-56
m,p-Xylene	2030	25.0	50.0	ug/kg wet	50	2000	---	101	80-120%	---	---	
o-Xylene	996	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (23B0779-DUP1) Prepared: 02/17/23 09:09 Analyzed: 02/21/23 15:42

QC Source Sample: Non-SDG (A3B0649-01)

Acetone	ND	565	1130	ug/kg dry	50	---	ND	---	---	---	30%
Acrylonitrile	ND	56.5	113	ug/kg dry	50	---	ND	---	---	---	30%
Benzene	ND	5.65	11.3	ug/kg dry	50	---	ND	---	---	---	30%
Bromobenzene	ND	14.1	28.3	ug/kg dry	50	---	ND	---	---	---	30%
Bromochloromethane	ND	28.3	56.5	ug/kg dry	50	---	ND	---	---	---	30%
Bromodichloromethane	ND	28.3	56.5	ug/kg dry	50	---	ND	---	---	---	30%
Bromoform	ND	56.5	113	ug/kg dry	50	---	ND	---	---	---	30%
Bromomethane	ND	565	565	ug/kg dry	50	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	283	565	ug/kg dry	50	---	ND	---	---	---	30%
n-Butylbenzene	ND	28.3	56.5	ug/kg dry	50	---	ND	---	---	---	30%
sec-Butylbenzene	ND	28.3	56.5	ug/kg dry	50	---	ND	---	---	---	30%
tert-Butylbenzene	ND	28.3	56.5	ug/kg dry	50	---	ND	---	---	---	30%
Carbon disulfide	ND	283	565	ug/kg dry	50	---	ND	---	---	---	30%
Carbon tetrachloride	ND	28.3	56.5	ug/kg dry	50	---	ND	---	---	---	30%
Chlorobenzene	ND	14.1	28.3	ug/kg dry	50	---	ND	---	---	---	30%
Chloroethane	ND	283	565	ug/kg dry	50	---	ND	---	---	---	30%
Chloroform	ND	28.3	56.5	ug/kg dry	50	---	ND	---	---	---	30%
Chloromethane	ND	141	283	ug/kg dry	50	---	ND	---	---	---	30%
2-Chlorotoluene	ND	28.3	56.5	ug/kg dry	50	---	ND	---	---	---	30%
4-Chlorotoluene	ND	28.3	56.5	ug/kg dry	50	---	ND	---	---	---	30%
Dibromochloromethane	ND	56.5	113	ug/kg dry	50	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	141	283	ug/kg dry	50	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	28.3	56.5	ug/kg dry	50	---	ND	---	---	---	30%
Dibromomethane	ND	28.3	56.5	ug/kg dry	50	---	ND	---	---	---	30%
1,2-Dichlorobenzene	ND	14.1	28.3	ug/kg dry	50	---	ND	---	---	---	30%

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3B0682 - 03 28 23 0832
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23B0779 - EPA 5035A						Soil						
Duplicate (23B0779-DUP1)			Prepared: 02/17/23 09:09 Analyzed: 02/21/23 15:42									
QC Source Sample: Non-SDG (A3B0649-01)												
1,3-Dichlorobenzene	ND	14.1	28.3	ug/kg dry	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	14.1	28.3	ug/kg dry	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	113	113	ug/kg dry	50	---	ND	---	---	---	30%	ICV-02
1,1-Dichloroethane	ND	14.1	28.3	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	14.1	28.3	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	14.1	28.3	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	14.1	28.3	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	14.1	28.3	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	14.1	28.3	ug/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	28.3	56.5	ug/kg dry	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	28.3	56.5	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	28.3	56.5	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	28.3	56.5	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	28.3	56.5	ug/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	14.1	28.3	ug/kg dry	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	56.5	113	ug/kg dry	50	---	ND	---	---	---	30%	
2-Hexanone	ND	283	565	ug/kg dry	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	28.3	56.5	ug/kg dry	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	28.3	56.5	ug/kg dry	50	---	ND	---	---	---	30%	
Methylene chloride	ND	283	565	ug/kg dry	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	283	565	ug/kg dry	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	28.3	56.5	ug/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	56.5	113	ug/kg dry	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	14.1	28.3	ug/kg dry	50	---	ND	---	---	---	30%	
Styrene	ND	28.3	56.5	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	14.1	28.3	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	28.3	56.5	ug/kg dry	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	14.1	28.3	ug/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	28.3	56.5	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	141	283	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	141	283	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	14.1	28.3	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	14.1	28.3	ug/kg dry	50	---	ND	---	---	---	30%	

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3B0682 - 03 28 23 0832
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23B0779 - EPA 5035A												
Soil												
Duplicate (23B0779-DUP1)												
Prepared: 02/17/23 09:09 Analyzed: 02/21/23 15:42												
QC Source Sample: Non-SDG (A3B0649-01)												
Trichloroethene (TCE)	18.1	14.1	28.3	ug/kg dry	50	---	18.1	---	---	0	30%	J
Trichlorofluoromethane	ND	56.5	113	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	28.3	56.5	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	28.3	56.5	ug/kg dry	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	28.3	56.5	ug/kg dry	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	14.1	28.3	ug/kg dry	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	28.3	56.5	ug/kg dry	50	---	ND	---	---	---	30%	
o-Xylene	ND	14.1	28.3	ug/kg dry	50	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 102 % Limits: 80-120 % Dilution: 1x												
Toluene-d8 (Surr) 100 % 80-120 % "												
4-Bromofluorobenzene (Surr) 98 % 79-120 % "												

Matrix Spike (23B0779-MS1)												
Prepared: 02/17/23 10:13 Analyzed: 02/21/23 16:33												
QC Source Sample: Non-SDG (A3B0649-02)												
5035A/8260D												
Acetone	1960	496	993	ug/kg dry	50	1990	ND	99	36-164%	---	---	
Acrylonitrile	993	49.6	99.3	ug/kg dry	50	994	ND	100	65-134%	---	---	
Benzene	1070	4.96	9.93	ug/kg dry	50	994	ND	107	77-121%	---	---	
Bromobenzene	1010	12.4	24.8	ug/kg dry	50	994	ND	102	78-121%	---	---	
Bromochloromethane	1090	24.8	49.6	ug/kg dry	50	994	ND	110	78-125%	---	---	
Bromodichloromethane	1040	24.8	49.6	ug/kg dry	50	994	ND	105	75-127%	---	---	
Bromoform	1020	49.6	99.3	ug/kg dry	50	994	ND	102	67-132%	---	---	
Bromomethane	1360	496	496	ug/kg dry	50	994	ND	137	53-143%	---	---	Q-54a
2-Butanone (MEK)	2130	248	496	ug/kg dry	50	1990	ND	107	51-148%	---	---	
n-Butylbenzene	1080	24.8	49.6	ug/kg dry	50	994	ND	109	70-128%	---	---	
sec-Butylbenzene	1090	24.8	49.6	ug/kg dry	50	994	ND	110	73-126%	---	---	
tert-Butylbenzene	1030	24.8	49.6	ug/kg dry	50	994	ND	103	73-125%	---	---	
Carbon disulfide	1060	248	496	ug/kg dry	50	994	ND	107	63-132%	---	---	
Carbon tetrachloride	1120	24.8	49.6	ug/kg dry	50	994	ND	113	70-135%	---	---	
Chlorobenzene	1020	12.4	24.8	ug/kg dry	50	994	ND	103	79-120%	---	---	
Chloroethane	1300	248	496	ug/kg dry	50	994	ND	130	59-139%	---	---	Q-54b
Chloroform	1080	24.8	49.6	ug/kg dry	50	994	ND	109	78-123%	---	---	
Chloromethane	1080	124	248	ug/kg dry	50	994	ND	109	50-136%	---	---	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3B0682 - 03 28 23 0832
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23B0779 - EPA 5035A						Soil						
Matrix Spike (23B0779-MS1)			Prepared: 02/17/23 10:13 Analyzed: 02/21/23 16:33									
QC Source Sample: Non-SDG (A3B0649-02)												
2-Chlorotoluene	1050	24.8	49.6	ug/kg dry	50	994	ND	105	75-122%	---	---	
4-Chlorotoluene	1050	24.8	49.6	ug/kg dry	50	994	ND	105	72-124%	---	---	
Dibromochloromethane	1050	49.6	99.3	ug/kg dry	50	994	ND	106	74-126%	---	---	
1,2-Dibromo-3-chloropropane	822	124	248	ug/kg dry	50	994	ND	83	61-132%	---	---	
1,2-Dibromoethane (EDB)	1010	24.8	49.6	ug/kg dry	50	994	ND	102	78-122%	---	---	
Dibromomethane	1010	24.8	49.6	ug/kg dry	50	994	ND	101	78-125%	---	---	
1,2-Dichlorobenzene	1040	12.4	24.8	ug/kg dry	50	994	ND	105	78-121%	---	---	
1,3-Dichlorobenzene	1030	12.4	24.8	ug/kg dry	50	994	ND	103	77-121%	---	---	
1,4-Dichlorobenzene	1020	12.4	24.8	ug/kg dry	50	994	ND	102	75-120%	---	---	
Dichlorodifluoromethane	1280	99.3	99.3	ug/kg dry	50	994	ND	129	29-149%	---	---	ICV-02, Q-54
1,1-Dichloroethane	1080	12.4	24.8	ug/kg dry	50	994	ND	108	76-125%	---	---	
1,2-Dichloroethane (EDC)	1090	12.4	24.8	ug/kg dry	50	994	ND	110	73-128%	---	---	
1,1-Dichloroethene	1190	12.4	24.8	ug/kg dry	50	994	ND	119	70-131%	---	---	
cis-1,2-Dichloroethene	1090	12.4	24.8	ug/kg dry	50	994	ND	109	77-123%	---	---	
trans-1,2-Dichloroethene	1100	12.4	24.8	ug/kg dry	50	994	ND	111	74-125%	---	---	
1,2-Dichloropropane	1060	12.4	24.8	ug/kg dry	50	994	ND	107	76-123%	---	---	
1,3-Dichloropropane	1070	24.8	49.6	ug/kg dry	50	994	ND	107	77-121%	---	---	
2,2-Dichloropropane	1080	24.8	49.6	ug/kg dry	50	994	ND	109	67-133%	---	---	
1,1-Dichloropropene	1120	24.8	49.6	ug/kg dry	50	994	ND	113	76-125%	---	---	
cis-1,3-Dichloropropene	1040	24.8	49.6	ug/kg dry	50	994	ND	105	74-126%	---	---	
trans-1,3-Dichloropropene	1030	24.8	49.6	ug/kg dry	50	994	ND	104	71-130%	---	---	
Ethylbenzene	1040	12.4	24.8	ug/kg dry	50	994	ND	105	76-122%	---	---	
Hexachlorobutadiene	1030	49.6	99.3	ug/kg dry	50	994	ND	104	61-135%	---	---	
2-Hexanone	1970	248	496	ug/kg dry	50	1990	ND	99	53-145%	---	---	
Isopropylbenzene	1050	24.8	49.6	ug/kg dry	50	994	ND	106	68-134%	---	---	
4-Isopropyltoluene	1060	24.8	49.6	ug/kg dry	50	994	ND	106	73-127%	---	---	
Methylene chloride	1030	248	496	ug/kg dry	50	994	ND	104	70-128%	---	---	
4-Methyl-2-pentanone (MiBK)	1970	248	496	ug/kg dry	50	1990	ND	99	65-135%	---	---	
Methyl tert-butyl ether (MTBE)	969	24.8	49.6	ug/kg dry	50	994	ND	98	73-125%	---	---	
Naphthalene	978	49.6	99.3	ug/kg dry	50	994	ND	98	62-129%	---	---	
n-Propylbenzene	1090	12.4	24.8	ug/kg dry	50	994	ND	110	73-125%	---	---	
Styrene	972	24.8	49.6	ug/kg dry	50	994	ND	98	76-124%	---	---	
1,1,1,2-Tetrachloroethane	1060	12.4	24.8	ug/kg dry	50	994	ND	106	78-125%	---	---	

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ANALYTICAL REPORT

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503-718-2323
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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3B0682 - 03 28 23 0832
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23B0779 - EPA 5035A						Soil						
Matrix Spike (23B0779-MS1)			Prepared: 02/17/23 10:13 Analyzed: 02/21/23 16:33									
QC Source Sample: Non-SDG (A3B0649-02)												
1,1,2,2-Tetrachloroethane	1060	24.8	49.6	ug/kg dry	50	994	ND	107	70-124%	---	---	
Tetrachloroethene (PCE)	1070	12.4	24.8	ug/kg dry	50	994	ND	108	73-128%	---	---	
Toluene	1020	24.8	49.6	ug/kg dry	50	994	ND	103	77-121%	---	---	
1,2,3-Trichlorobenzene	975	124	248	ug/kg dry	50	994	ND	98	66-130%	---	---	
1,2,4-Trichlorobenzene	1010	124	248	ug/kg dry	50	994	ND	101	67-129%	---	---	
1,1,1-Trichloroethane	1110	12.4	24.8	ug/kg dry	50	994	ND	112	73-130%	---	---	
1,1,2-Trichloroethane	1030	12.4	24.8	ug/kg dry	50	994	ND	104	78-121%	---	---	
Trichloroethene (TCE)	1050	12.4	24.8	ug/kg dry	50	994	ND	106	77-123%	---	---	
Trichlorofluoromethane	1960	49.6	99.3	ug/kg dry	50	994	ND	197	62-140%	---	---	Q-54c
1,2,3-Trichloropropane	996	24.8	49.6	ug/kg dry	50	994	ND	100	73-125%	---	---	
1,2,4-Trimethylbenzene	1050	24.8	49.6	ug/kg dry	50	994	ND	106	75-123%	---	---	
1,3,5-Trimethylbenzene	1080	24.8	49.6	ug/kg dry	50	994	ND	109	73-124%	---	---	
Vinyl chloride	1290	12.4	24.8	ug/kg dry	50	994	ND	130	56-135%	---	---	Q-54
m,p-Xylene	2100	24.8	49.6	ug/kg dry	50	1990	ND	106	77-124%	---	---	
o-Xylene	1020	12.4	24.8	ug/kg dry	50	994	ND	103	77-123%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>79-120 %</i>		<i>"</i>						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0157 - EPA 1311/5030B TCLP Volatiles						Water						
Blank (23C0157-BLK1)						Prepared: 03/03/23 13:36 Analyzed: 03/04/23 03:48						TCLPa
<u>1311/8260D</u>												
Benzene	ND	6.25	12.5	ug/L	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/L	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>"</i>						

LCS (23C0157-BS1)						Prepared: 03/03/23 13:36 Analyzed: 03/04/23 02:54						TCLPa
<u>1311/8260D</u>												
Benzene	928	6.25	12.5	ug/L	50	1000	---	93	80-120%	---	---	
2-Butanone (MEK)	1950	250	500	ug/L	50	2000	---	97	80-120%	---	---	
Carbon tetrachloride	906	25.0	50.0	ug/L	50	1000	---	91	80-120%	---	---	
Chlorobenzene	922	12.5	25.0	ug/L	50	1000	---	92	80-120%	---	---	
Chloroform	956	25.0	50.0	ug/L	50	1000	---	96	80-120%	---	---	
1,4-Dichlorobenzene	862	12.5	25.0	ug/L	50	1000	---	86	80-120%	---	---	
1,1-Dichloroethene	862	12.5	25.0	ug/L	50	1000	---	86	80-120%	---	---	
1,2-Dichloroethane (EDC)	957	12.5	25.0	ug/L	50	1000	---	96	80-120%	---	---	
Tetrachloroethene (PCE)	826	12.5	25.0	ug/L	50	1000	---	83	80-120%	---	---	
Trichloroethene (TCE)	838	12.5	25.0	ug/L	50	1000	---	84	80-120%	---	---	
Vinyl chloride	884	12.5	25.0	ug/L	50	1000	---	88	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>89 %</i>		<i>80-120 %</i>		<i>"</i>						

Duplicate (23C0157-DUP1)						Prepared: 03/03/23 13:36 Analyzed: 03/04/23 04:43						Q-44
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-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0157 - EPA 1311/5030B TCLP Volatiles						Water						
Duplicate (23C0157-DUP1)						Prepared: 03/03/23 13:36 Analyzed: 03/04/23 04:43						Q-44
QC Source Sample: FC-022023-2067 (A3B0682-01)												
1311/8260D												
Benzene	ND	6.25	12.5	ug/L	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	250	500	ug/L	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Chloroform	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 105 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						

Matrix Spike (23C0157-MS1)						Prepared: 03/03/23 13:36 Analyzed: 03/04/23 05:37						Q-44a
QC Source Sample: Non-SDG (A3B0683-01)												
1311/8260D												
Benzene	992	6.25	12.5	ug/L	50	1000	ND	99	79-120%	---	---	
2-Butanone (MEK)	2040	250	500	ug/L	50	2000	ND	102	56-143%	---	---	
Carbon tetrachloride	996	25.0	50.0	ug/L	50	1000	ND	100	72-136%	---	---	
Chlorobenzene	968	12.5	25.0	ug/L	50	1000	ND	97	80-120%	---	---	
Chloroform	1080	25.0	50.0	ug/L	50	1000	67.0	102	79-124%	---	---	
1,4-Dichlorobenzene	912	12.5	25.0	ug/L	50	1000	ND	91	79-120%	---	---	
1,1-Dichloroethene	946	12.5	25.0	ug/L	50	1000	ND	95	71-131%	---	---	
1,2-Dichloroethane (EDC)	1000	12.5	25.0	ug/L	50	1000	ND	100	73-128%	---	---	
Tetrachloroethene (PCE)	884	12.5	25.0	ug/L	50	1000	ND	88	74-129%	---	---	
Trichloroethene (TCE)	893	12.5	25.0	ug/L	50	1000	ND	89	79-123%	---	---	
Vinyl chloride	976	12.5	25.0	ug/L	50	1000	ND	98	58-137%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC
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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3B0682 - 03 28 23 0832
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23C0157 - EPA 1311/5030B TCLP Volatiles						Water							
Matrix Spike (23C0157-MS1)			Prepared: 03/03/23 13:36 Analyzed: 03/04/23 05:37						Q-44a				
QC Source Sample: Non-SDG (A3B0683-01)													
<i>Surr: 4-Bromofluorobenzene (Surr)</i>		<i>Recovery: 88 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>							

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0015 - EPA 3546						Solid						
Blank (23C0015-BLK1)			Prepared: 03/01/23 08:48 Analyzed: 03/01/23 21:34									
<u>EPA 8270E</u>												
Acenaphthene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Chrysene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Fluoranthene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Fluorene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
Naphthalene	2.74	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	B-02, J
Phenanthrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Pyrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Carbazole	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Dibenzofuran	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
2-Chlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
2-Methylphenol	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Nitrophenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
4-Nitrophenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Phenol	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3B0682 - 03 28 23 0832
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0015 - EPA 3546						Solid						
Blank (23C0015-BLK1)			Prepared: 03/01/23 08:48 Analyzed: 03/01/23 21:34									
2,3,5,6-Tetrachlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	20.0	40.0	ug/kg wet	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Diethylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Dimethylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Di-n-butylphthalate	14.4	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	B-02, J
Di-n-octyl phthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2,2'-Oxybis(1-Chloropropane)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Hexachloroethane	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Aniline	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
4-Chloroaniline	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
3-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
4-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
Nitrobenzene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Benzoic acid	ND	167	333	ug/kg wet	1	---	---	---	---	---	---	
Benzyl alcohol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Isophorone	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3B0682 - 03 28 23 0832
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0015 - EPA 3546						Solid						
Blank (23C0015-BLK1)			Prepared: 03/01/23 08:48 Analyzed: 03/01/23 21:34									
Azobenzene (1,2-DPH)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Ethylhexyl) adipate	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	Q-52
1,2-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
Pyridine	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 92 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 1x</i>		Q-41				
<i>2-Fluorobiphenyl (Surr)</i>		<i>83 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>83 %</i>		<i>33-122 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>94 %</i>		<i>54-127 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>79 %</i>		<i>35-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>79 %</i>		<i>39-132 %</i>		<i>"</i>						
LCS (23C0015-BS1)						Prepared: 03/01/23 08:48 Analyzed: 03/01/23 22:09						Q-18
EPA 8270E												
Acenaphthene	475	5.32	10.7	ug/kg wet	4	533	---	89	40-123%	---	---	
Acenaphthylene	508	5.32	10.7	ug/kg wet	4	533	---	95	32-132%	---	---	
Anthracene	498	5.32	10.7	ug/kg wet	4	533	---	93	47-123%	---	---	
Benz(a)anthracene	497	5.32	10.7	ug/kg wet	4	533	---	93	49-126%	---	---	
Benzo(a)pyrene	529	8.00	16.0	ug/kg wet	4	533	---	99	45-129%	---	---	
Benzo(b)fluoranthene	523	8.00	16.0	ug/kg wet	4	533	---	98	45-132%	---	---	
Benzo(k)fluoranthene	515	8.00	16.0	ug/kg wet	4	533	---	96	47-132%	---	---	
Benzo(g,h,i)perylene	482	5.32	10.7	ug/kg wet	4	533	---	90	43-134%	---	---	
Chrysene	487	5.32	10.7	ug/kg wet	4	533	---	91	50-124%	---	---	
Dibenz(a,h)anthracene	485	5.32	10.7	ug/kg wet	4	533	---	91	45-134%	---	---	
Fluoranthene	464	5.32	10.7	ug/kg wet	4	533	---	87	50-127%	---	---	
Fluorene	508	5.32	10.7	ug/kg wet	4	533	---	95	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	507	5.32	10.7	ug/kg wet	4	533	---	95	45-133%	---	---	
1-Methylnaphthalene	472	10.7	21.3	ug/kg wet	4	533	---	88	40-120%	---	---	
2-Methylnaphthalene	491	10.7	21.3	ug/kg wet	4	533	---	92	38-122%	---	---	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3B0682 - 03 28 23 0832
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0015 - EPA 3546						Solid						
LCS (23C0015-BS1)						Prepared: 03/01/23 08:48 Analyzed: 03/01/23 22:09						Q-18
Naphthalene	466	10.7	21.3	ug/kg wet	4	533	---	87	35-123%	---	---	B-02
Phenanthrene	475	5.32	10.7	ug/kg wet	4	533	---	89	50-121%	---	---	
Pyrene	458	5.32	10.7	ug/kg wet	4	533	---	86	47-127%	---	---	
Carbazole	532	8.00	16.0	ug/kg wet	4	533	---	100	50-123%	---	---	
Dibenzofuran	495	5.32	10.7	ug/kg wet	4	533	---	93	44-120%	---	---	
2-Chlorophenol	497	26.7	53.2	ug/kg wet	4	533	---	93	34-121%	---	---	
4-Chloro-3-methylphenol	517	53.2	107	ug/kg wet	4	533	---	97	45-122%	---	---	
2,4-Dichlorophenol	507	26.7	53.2	ug/kg wet	4	533	---	95	40-122%	---	---	
2,4-Dimethylphenol	539	26.7	53.2	ug/kg wet	4	533	---	101	30-127%	---	---	
2,4-Dinitrophenol	481	133	267	ug/kg wet	4	533	---	90	10-137%	---	---	
4,6-Dinitro-2-methylphenol	493	133	267	ug/kg wet	4	533	---	92	29-132%	---	---	
2-Methylphenol	569	13.3	26.7	ug/kg wet	4	533	---	107	32-122%	---	---	
3+4-Methylphenol(s)	602	13.3	26.7	ug/kg wet	4	533	---	113	34-120%	---	---	Q-41
2-Nitrophenol	536	53.2	107	ug/kg wet	4	533	---	101	36-123%	---	---	
4-Nitrophenol	504	53.2	107	ug/kg wet	4	533	---	95	30-132%	---	---	
Pentachlorophenol (PCP)	504	53.2	107	ug/kg wet	4	533	---	94	25-133%	---	---	
Phenol	527	10.7	21.3	ug/kg wet	4	533	---	99	34-121%	---	---	
2,3,4,6-Tetrachlorophenol	493	26.7	53.2	ug/kg wet	4	533	---	92	44-125%	---	---	
2,3,5,6-Tetrachlorophenol	498	26.7	53.2	ug/kg wet	4	533	---	93	40-120%	---	---	
2,4,5-Trichlorophenol	501	26.7	53.2	ug/kg wet	4	533	---	94	41-124%	---	---	
2,4,6-Trichlorophenol	484	26.7	53.2	ug/kg wet	4	533	---	91	39-126%	---	---	
Bis(2-ethylhexyl)phthalate	580	80.0	160	ug/kg wet	4	533	---	109	51-133%	---	---	
Butyl benzyl phthalate	610	53.2	107	ug/kg wet	4	533	---	114	48-132%	---	---	
Diethylphthalate	509	53.2	107	ug/kg wet	4	533	---	95	50-124%	---	---	
Dimethylphthalate	491	53.2	107	ug/kg wet	4	533	---	92	48-124%	---	---	
Di-n-butylphthalate	524	53.2	107	ug/kg wet	4	533	---	98	51-128%	---	---	B-02
Di-n-octyl phthalate	663	53.2	107	ug/kg wet	4	533	---	124	45-140%	---	---	
N-Nitrosodimethylamine	408	13.3	26.7	ug/kg wet	4	533	---	77	23-120%	---	---	
N-Nitroso-di-n-propylamine	606	13.3	26.7	ug/kg wet	4	533	---	114	36-120%	---	---	Q-41
N-Nitrosodiphenylamine	563	13.3	26.7	ug/kg wet	4	533	---	106	38-127%	---	---	
Bis(2-Chloroethoxy) methane	506	13.3	26.7	ug/kg wet	4	533	---	95	36-121%	---	---	
Bis(2-Chloroethyl) ether	482	13.3	26.7	ug/kg wet	4	533	---	90	31-120%	---	---	Q-41
2,2'-Oxybis(1-Chloropropane)	549	13.3	26.7	ug/kg wet	4	533	---	103	39-120%	---	---	
Hexachlorobenzene	444	5.32	10.7	ug/kg wet	4	533	---	83	45-122%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3B0682 - 03 28 23 0832
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23C0015 - EPA 3546						Solid							
LCS (23C0015-BS1)						Prepared: 03/01/23 08:48 Analyzed: 03/01/23 22:09						Q-18	
Hexachlorobutadiene	405	13.3	26.7	ug/kg wet	4	533	---	76	32-123%	---	---		
Hexachlorocyclopentadiene	551	26.7	53.2	ug/kg wet	4	533	---	103	10-140%	---	---		
Hexachloroethane	437	13.3	26.7	ug/kg wet	4	533	---	82	28-120%	---	---		
2-Chloronaphthalene	493	5.32	10.7	ug/kg wet	4	533	---	92	41-120%	---	---		
1,2,4-Trichlorobenzene	448	13.3	26.7	ug/kg wet	4	533	---	84	34-120%	---	---		
4-Bromophenyl phenyl ether	493	13.3	26.7	ug/kg wet	4	533	---	93	46-124%	---	---		
4-Chlorophenyl phenyl ether	480	13.3	26.7	ug/kg wet	4	533	---	90	45-121%	---	---		
Aniline	468	26.7	53.2	ug/kg wet	4	533	---	88	10-120%	---	---		
4-Chloroaniline	436	13.3	26.7	ug/kg wet	4	533	---	82	17-120%	---	---		
2-Nitroaniline	532	107	213	ug/kg wet	4	533	---	100	44-127%	---	---		
3-Nitroaniline	583	107	213	ug/kg wet	4	533	---	109	33-120%	---	---		
4-Nitroaniline	568	107	213	ug/kg wet	4	533	---	106	51-125%	---	---		
Nitrobenzene	554	53.2	107	ug/kg wet	4	533	---	104	34-122%	---	---	Q-41	
2,4-Dinitrotoluene	504	53.2	107	ug/kg wet	4	533	---	94	48-126%	---	---		
2,6-Dinitrotoluene	503	53.2	107	ug/kg wet	4	533	---	94	46-124%	---	---		
Benzoic acid	950	668	668	ug/kg wet	4	1070	---	89	10-140%	---	---		
Benzyl alcohol	562	26.7	53.2	ug/kg wet	4	533	---	105	29-122%	---	---		
Isophorone	529	13.3	26.7	ug/kg wet	4	533	---	99	30-122%	---	---		
Azobenzene (1,2-DPH)	583	13.3	26.7	ug/kg wet	4	533	---	109	39-125%	---	---		
Bis(2-Ethylhexyl) adipate	627	133	267	ug/kg wet	4	533	---	118	61-121%	---	---		
3,3'-Dichlorobenzidine	3330	107	213	ug/kg wet	4	1070	---	312	22-121%	---	---	Q-29, Q-31, Q-52	
1,2-Dinitrobenzene	493	133	267	ug/kg wet	4	533	---	93	44-120%	---	---		
1,3-Dinitrobenzene	481	133	267	ug/kg wet	4	533	---	90	43-127%	---	---		
1,4-Dinitrobenzene	531	133	267	ug/kg wet	4	533	---	99	37-132%	---	---		
Pyridine	432	26.7	53.2	ug/kg wet	4	533	---	81	10-120%	---	---		
1,2-Dichlorobenzene	453	13.3	26.7	ug/kg wet	4	533	---	85	33-120%	---	---		
1,3-Dichlorobenzene	435	13.3	26.7	ug/kg wet	4	533	---	82	30-120%	---	---		
1,4-Dichlorobenzene	442	13.3	26.7	ug/kg wet	4	533	---	83	31-120%	---	---		
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 80 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 4x</i>							Q-41
<i>2-Fluorobiphenyl (Surr)</i>		<i>70 %</i>		<i>44-120 %</i>		<i>"</i>							
<i>Phenol-d6 (Surr)</i>		<i>74 %</i>		<i>33-122 %</i>		<i>"</i>							
<i>p-Terphenyl-d14 (Surr)</i>		<i>76 %</i>		<i>54-127 %</i>		<i>"</i>							
<i>2-Fluorophenol (Surr)</i>		<i>62 %</i>		<i>35-120 %</i>		<i>"</i>							
<i>2,4,6-Tribromophenol (Surr)</i>		<i>72 %</i>		<i>39-132 %</i>		<i>"</i>							

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3B0682 - 03 28 23 0832
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0015 - EPA 3546							Solid					
Duplicate (23C0015-DUP1)			Prepared: 03/01/23 08:48 Analyzed: 03/01/23 23:20									
QC Source Sample: Non-SDG (A3B0633-01)												
Acenaphthene	2690000	9410	18900	ug/kg wet	1000	---	2130000	---	---	23	30%	
Acenaphthylene	ND	53100	53100	ug/kg wet	1000	---	ND	---	---	---	30%	R-02
Anthracene	1420000	9410	18900	ug/kg wet	1000	---	1090000	---	---	26	30%	
Benz(a)anthracene	744000	9410	18900	ug/kg wet	1000	---	561000	---	---	28	30%	
Benzo(a)pyrene	203000	14200	28300	ug/kg wet	1000	---	153000	---	---	28	30%	
Benzo(b)fluoranthene	336000	14200	28300	ug/kg wet	1000	---	253000	---	---	28	30%	
Benzo(k)fluoranthene	124000	14200	28300	ug/kg wet	1000	---	95300	---	---	26	30%	M-05
Benzo(g,h,i)perylene	37000	9410	18900	ug/kg wet	1000	---	26300	---	---	34	30%	Q-04
Chrysene	726000	9410	18900	ug/kg wet	1000	---	557000	---	---	26	30%	
Dibenz(a,h)anthracene	13000	9410	18900	ug/kg wet	1000	---	9990	---	---	26	30%	J
Fluoranthene	5600000	9410	18900	ug/kg wet	1000	---	4170000	---	---	29	30%	
Fluorene	2710000	9410	18900	ug/kg wet	1000	---	2150000	---	---	23	30%	
Indeno(1,2,3-cd)pyrene	48900	9410	18900	ug/kg wet	1000	---	36400	---	---	29	30%	
1-Methylnaphthalene	1060000	18900	37700	ug/kg wet	1000	---	882000	---	---	18	30%	
2-Methylnaphthalene	1930000	18900	37700	ug/kg wet	1000	---	1600000	---	---	19	30%	
Naphthalene	1400000	18900	37700	ug/kg wet	1000	---	1060000	---	---	28	30%	B-02
Phenanthrene	8360000	9410	18900	ug/kg wet	1000	---	6630000	---	---	23	30%	
Pyrene	3400000	9410	18900	ug/kg wet	1000	---	2500000	---	---	31	30%	Q-04
Carbazole	760000	14200	28300	ug/kg wet	1000	---	606000	---	---	23	30%	
Dibenzofuran	2310000	9410	18900	ug/kg wet	1000	---	1860000	---	---	22	30%	
2-Chlorophenol	ND	47200	94100	ug/kg wet	1000	---	ND	---	---	---	30%	
4-Chloro-3-methylphenol	ND	94100	189000	ug/kg wet	1000	---	ND	---	---	---	30%	
2,4-Dichlorophenol	ND	47200	94100	ug/kg wet	1000	---	ND	---	---	---	30%	
2,4-Dimethylphenol	ND	47200	94100	ug/kg wet	1000	---	ND	---	---	---	30%	
2,4-Dinitrophenol	ND	236000	472000	ug/kg wet	1000	---	ND	---	---	---	30%	
4,6-Dinitro-2-methylphenol	ND	236000	472000	ug/kg wet	1000	---	ND	---	---	---	30%	
2-Methylphenol	ND	23600	47200	ug/kg wet	1000	---	ND	---	---	---	30%	
3+4-Methylphenol(s)	ND	23600	47200	ug/kg wet	1000	---	ND	---	---	---	30%	
2-Nitrophenol	ND	94100	189000	ug/kg wet	1000	---	ND	---	---	---	30%	
4-Nitrophenol	ND	189000	189000	ug/kg wet	1000	---	ND	---	---	---	30%	
Pentachlorophenol (PCP)	137000	94100	189000	ug/kg wet	1000	---	106000	---	---	25	30%	J
Phenol	ND	18900	37700	ug/kg wet	1000	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0015 - EPA 3546						Solid						
Duplicate (23C0015-DUP1)			Prepared: 03/01/23 08:48 Analyzed: 03/01/23 23:20									
QC Source Sample: Non-SDG (A3B0633-01)												
2,3,4,6-Tetrachlorophenol	ND	47200	94100	ug/kg wet	1000	---	ND	---	---	---	30%	
2,3,5,6-Tetrachlorophenol	ND	47200	94100	ug/kg wet	1000	---	ND	---	---	---	30%	
2,4,5-Trichlorophenol	ND	47200	94100	ug/kg wet	1000	---	ND	---	---	---	30%	
2,4,6-Trichlorophenol	ND	47200	94100	ug/kg wet	1000	---	ND	---	---	---	30%	
Bis(2-ethylhexyl)phthalate	ND	142000	283000	ug/kg wet	1000	---	ND	---	---	---	30%	
Butyl benzyl phthalate	ND	94100	189000	ug/kg wet	1000	---	ND	---	---	---	30%	
Diethylphthalate	ND	94100	189000	ug/kg wet	1000	---	ND	---	---	---	30%	
Dimethylphthalate	ND	94100	189000	ug/kg wet	1000	---	ND	---	---	---	30%	
Di-n-butylphthalate	ND	94100	189000	ug/kg wet	1000	---	ND	---	---	---	30%	
Di-n-octyl phthalate	ND	94100	189000	ug/kg wet	1000	---	ND	---	---	---	30%	
N-Nitrosodimethylamine	ND	23600	47200	ug/kg wet	1000	---	ND	---	---	---	30%	
N-Nitroso-di-n-propylamine	ND	23600	47200	ug/kg wet	1000	---	ND	---	---	---	30%	
N-Nitrosodiphenylamine	ND	81400	81400	ug/kg wet	1000	---	ND	---	---	---	30%	R-02
Bis(2-Chloroethoxy) methane	ND	23600	47200	ug/kg wet	1000	---	ND	---	---	---	30%	
Bis(2-Chloroethyl) ether	ND	23600	47200	ug/kg wet	1000	---	ND	---	---	---	30%	
2,2'-Oxybis(1-Chloropropane)	ND	23600	47200	ug/kg wet	1000	---	ND	---	---	---	30%	
Hexachlorobenzene	ND	9410	18900	ug/kg wet	1000	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	23600	47200	ug/kg wet	1000	---	ND	---	---	---	30%	
Hexachlorocyclopentadiene	ND	47200	94100	ug/kg wet	1000	---	ND	---	---	---	30%	
Hexachloroethane	ND	23600	47200	ug/kg wet	1000	---	ND	---	---	---	30%	
2-Chloronaphthalene	ND	9410	18900	ug/kg wet	1000	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	23600	47200	ug/kg wet	1000	---	ND	---	---	---	30%	
4-Bromophenyl phenyl ether	ND	23600	47200	ug/kg wet	1000	---	ND	---	---	---	30%	
4-Chlorophenyl phenyl ether	ND	23600	47200	ug/kg wet	1000	---	ND	---	---	---	30%	
Aniline	ND	47200	94100	ug/kg wet	1000	---	ND	---	---	---	30%	
4-Chloroaniline	ND	23600	47200	ug/kg wet	1000	---	ND	---	---	---	30%	
2-Nitroaniline	ND	189000	377000	ug/kg wet	1000	---	ND	---	---	---	30%	
3-Nitroaniline	ND	189000	377000	ug/kg wet	1000	---	ND	---	---	---	30%	
4-Nitroaniline	ND	189000	377000	ug/kg wet	1000	---	ND	---	---	---	30%	
Nitrobenzene	ND	94100	189000	ug/kg wet	1000	---	ND	---	---	---	30%	
2,4-Dinitrotoluene	ND	94100	189000	ug/kg wet	1000	---	ND	---	---	---	30%	
2,6-Dinitrotoluene	ND	94100	189000	ug/kg wet	1000	---	ND	---	---	---	30%	
Benzoic acid	ND	1180000	2360000	ug/kg wet	1000	---	ND	---	---	---	30%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0015 - EPA 3546						Solid						
Duplicate (23C0015-DUP1)			Prepared: 03/01/23 08:48 Analyzed: 03/01/23 23:20									
QC Source Sample: Non-SDG (A3B0633-01)												
Benzyl alcohol	ND	47200	94100	ug/kg wet	1000	---	ND	---	---	---	30%	
Isophorone	ND	23600	47200	ug/kg wet	1000	---	ND	---	---	---	30%	
Azobenzene (1,2-DPH)	ND	47200	47200	ug/kg wet	1000	---	ND	---	---	---	30%	
Bis(2-Ethylhexyl) adipate	ND	236000	472000	ug/kg wet	1000	---	ND	---	---	---	30%	
3,3'-Dichlorobenzidine	ND	189000	377000	ug/kg wet	1000	---	ND	---	---	---	30%	Q-52
1,2-Dinitrobenzene	ND	236000	472000	ug/kg wet	1000	---	ND	---	---	---	30%	
1,3-Dinitrobenzene	ND	236000	472000	ug/kg wet	1000	---	ND	---	---	---	30%	
1,4-Dinitrobenzene	ND	236000	472000	ug/kg wet	1000	---	ND	---	---	---	30%	
Pyridine	ND	47200	94100	ug/kg wet	1000	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	23600	47200	ug/kg wet	1000	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	23600	47200	ug/kg wet	1000	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	23600	47200	ug/kg wet	1000	---	ND	---	---	---	30%	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 60 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 1000x</i>						S-05
<i>2-Fluorobiphenyl (Surr)</i>		<i>89 %</i>		<i>44-120 %</i>		<i>"</i>						S-05
<i>Phenol-d6 (Surr)</i>		<i>22 %</i>		<i>33-122 %</i>		<i>"</i>						S-05
<i>p-Terphenyl-d14 (Surr)</i>		<i>231 %</i>		<i>54-127 %</i>		<i>"</i>						S-05
<i>2-Fluorophenol (Surr)</i>		<i>14 %</i>		<i>35-120 %</i>		<i>"</i>						S-05
<i>2,4,6-Tribromophenol (Surr)</i>		<i>517 %</i>		<i>39-132 %</i>		<i>"</i>						S-05
Duplicate (23C0015-DUP2)			Prepared: 03/01/23 08:48 Analyzed: 03/02/23 14:37									
QC Source Sample: Non-SDG (A3B0633-01RE1)												
Phenanthrene	7780000	94100	189000	ug/kg wet	10000	---	7790000	---	---	0.1	30%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0066 - EPA 3051A						Solid						
Blank (23C0066-BLK1)			Prepared: 03/02/23 06:56 Analyzed: 03/03/23 01:15									
<u>EPA 6020B</u>												
Arsenic	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Barium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	100	200	ug/kg wet	10	---	---	---	---	---	---	
Chromium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Lead	ND	100	200	ug/kg wet	10	---	---	---	---	---	---	
Mercury	ND	40.0	80.0	ug/kg wet	10	---	---	---	---	---	---	
Selenium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Silver	ND	100	200	ug/kg wet	10	---	---	---	---	---	---	
<hr/>												
LCS (23C0066-BS1)			Prepared: 03/02/23 06:56 Analyzed: 03/03/23 01:20									
<u>EPA 6020B</u>												
Arsenic	48500	500	1000	ug/kg wet	10	50000	---	97	80-120%	---	---	
Barium	50500	500	1000	ug/kg wet	10	50000	---	101	80-120%	---	---	
Cadmium	48400	100	200	ug/kg wet	10	50000	---	97	80-120%	---	---	
Chromium	46200	500	1000	ug/kg wet	10	50000	---	92	80-120%	---	---	
Lead	48100	100	200	ug/kg wet	10	50000	---	96	80-120%	---	---	
Mercury	868	40.0	80.0	ug/kg wet	10	1000	---	87	80-120%	---	---	
Selenium	23900	500	1000	ug/kg wet	10	25000	---	95	80-120%	---	---	
Silver	23900	100	200	ug/kg wet	10	25000	---	96	80-120%	---	---	
<hr/>												
Duplicate (23C0066-DUP1)			Prepared: 03/02/23 06:56 Analyzed: 03/03/23 01:31									
<u>QC Source Sample: FC-022023-2067 (A3B0682-01)</u>												
<u>EPA 6020B</u>												
Arsenic	8450	2180	4360	ug/kg dry	10	---	8430	---	---	0.2	20%	
Barium	224000	2180	4360	ug/kg dry	10	---	227000	---	---	1	20%	
Cadmium	ND	436	873	ug/kg dry	10	---	ND	---	---	---	20%	
Chromium	ND	2180	4360	ug/kg dry	10	---	ND	---	---	---	20%	
Lead	ND	436	873	ug/kg dry	10	---	ND	---	---	---	20%	
Mercury	ND	175	349	ug/kg dry	10	---	ND	---	---	---	20%	
Selenium	ND	2180	4360	ug/kg dry	10	---	ND	---	---	---	20%	
Silver	ND	436	873	ug/kg dry	10	---	ND	---	---	---	20%	
<hr/>												
Matrix Spike (23C0066-MS1)			Prepared: 03/02/23 06:56 Analyzed: 03/03/23 01:36									

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0066 - EPA 3051A						Solid						
Matrix Spike (23C0066-MS1)						Prepared: 03/02/23 06:56 Analyzed: 03/03/23 01:36						
QC Source Sample: FC-022023-2067 (A3B0682-01)												
EPA 6020B												
Arsenic	222000	2310	4610	ug/kg dry	10	231000	8430	92	75-125%	---	---	
Barium	449000	2310	4610	ug/kg dry	10	231000	227000	96	75-125%	---	---	
Cadmium	217000	461	922	ug/kg dry	10	231000	ND	94	75-125%	---	---	
Chromium	204000	2310	4610	ug/kg dry	10	231000	ND	88	75-125%	---	---	
Lead	217000	461	922	ug/kg dry	10	231000	ND	94	75-125%	---	---	
Mercury	3900	184	369	ug/kg dry	10	4610	ND	85	75-125%	---	---	
Selenium	106000	2310	4610	ug/kg dry	10	115000	ND	92	75-125%	---	---	
Silver	107000	461	922	ug/kg dry	10	115000	ND	92	75-125%	---	---	

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3B0682 - 03 28 23 0832
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QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0080 - EPA 1311/3015A						Solid						
Blank (23C0080-BLK1)			Prepared: 03/02/23 11:20 Analyzed: 03/03/23 05:07									
<u>1311/6020B</u>												
Arsenic	ND	50.0	100	ug/L	10	---	---	---	---	---	---	Q-44b, TCLP
Barium	ND	2500	5000	ug/L	10	---	---	---	---	---	---	Q-44b, TCLP
Cadmium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	Q-44b, TCLP
Chromium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	Q-44b, TCLP
Lead	ND	25.0	50.0	ug/L	10	---	---	---	---	---	---	Q-44b, TCLP
Mercury	ND	3.75	7.00	ug/L	10	---	---	---	---	---	---	Q-44b, TCLP
Selenium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	Q-44b, TCLP
Silver	ND	50.0	100	ug/L	10	---	---	---	---	---	---	Q-44b, TCLP
<hr/>												
LCS (23C0080-BS1)			Prepared: 03/02/23 11:20 Analyzed: 03/03/23 05:23									
<u>1311/6020B</u>												
Arsenic	5130	50.0	100	ug/L	10	5000	---	103	80-120%	---	---	Q-44b, TCLP
Barium	11300	2500	5000	ug/L	10	10000	---	113	80-120%	---	---	Q-44b, TCLP
Cadmium	1010	50.0	100	ug/L	10	1000	---	101	80-120%	---	---	Q-44b, TCLP
Chromium	4930	50.0	100	ug/L	10	5000	---	99	80-120%	---	---	Q-44b, TCLP
Lead	5070	25.0	50.0	ug/L	10	5000	---	101	80-120%	---	---	Q-44b, TCLP
Mercury	92.7	3.75	7.00	ug/L	10	100	---	93	80-120%	---	---	Q-44b, TCLP
Selenium	1010	50.0	100	ug/L	10	1000	---	101	80-120%	---	---	Q-44b, TCLP
Silver	967	50.0	100	ug/L	10	1000	---	97	80-120%	---	---	Q-44b, TCLP
<hr/>												
Duplicate (23C0080-DUP1)			Prepared: 03/02/23 11:20 Analyzed: 03/03/23 05:33									
<u>QC Source Sample: FC-022023-2067 (A3B0682-01)</u>												
<u>1311/6020B</u>												
Arsenic	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	Q-44b
Barium	ND	2500	5000	ug/L	10	---	ND	---	---	---	20%	Q-44b
Cadmium	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	Q-44b
Chromium	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	Q-44b
Lead	ND	25.0	50.0	ug/L	10	---	ND	---	---	---	20%	Q-44b
Mercury	ND	3.75	7.00	ug/L	10	---	ND	---	---	---	20%	Q-44b
Selenium	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	Q-44b
Silver	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	Q-44b
<hr/>												
Matrix Spike (23C0080-MS1)			Prepared: 03/02/23 11:20 Analyzed: 03/03/23 05:38									

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3B0682 - 03 28 23 0832
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QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0080 - EPA 1311/3015A						Solid						
Matrix Spike (23C0080-MS1)						Prepared: 03/02/23 11:20 Analyzed: 03/03/23 05:38						
QC Source Sample: FC-022023-2067 (A3B0682-01)												
1311/6020B												
Arsenic	5230	50.0	100	ug/L	10	5000	ND	105	50-150%	---	---	Q-44b
Barium	11600	2500	5000	ug/L	10	10000	ND	116	50-150%	---	---	Q-44b
Cadmium	1030	50.0	100	ug/L	10	1000	ND	103	50-150%	---	---	Q-44b
Chromium	4990	50.0	100	ug/L	10	5000	ND	100	50-150%	---	---	Q-44b
Lead	5370	25.0	50.0	ug/L	10	5000	ND	107	50-150%	---	---	Q-44b
Mercury	95.4	3.75	7.00	ug/L	10	100	ND	95	50-150%	---	---	Q-44b
Selenium	1050	50.0	100	ug/L	10	1000	ND	105	50-150%	---	---	Q-44b
Silver	990	50.0	100	ug/L	10	1000	ND	99	50-150%	---	---	Q-44b

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QUALITY CONTROL (QC) SAMPLE RESULTS

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0029 - ASTM D7511-12mod (S)						Soil						
Blank (23C0029-BLK1)						Prepared: 03/01/23 10:26 Analyzed: 03/02/23 15:30						
<u>D7511-12</u>												
Total Cyanide	ND	50.0	100	ug/kg wet	1	---	---	---	---	---	---	
LCS (23C0029-BS1)						Prepared: 03/01/23 10:26 Analyzed: 03/02/23 15:32						
<u>D7511-12</u>												
Total Cyanide	365	50.0	100	ug/kg wet	1	400	---	91	84-116%	---	---	
Matrix Spike (23C0029-MS1)						Prepared: 03/01/23 10:26 Analyzed: 03/02/23 15:46						
<u>QC Source Sample: Non-SDG (A3B0710-03)</u>												
<u>D7511-12</u>												
Total Cyanide	3230	845	1690	ug/kg dry	10	676	4270	-154	64-136%	---	---	Q-03
Matrix Spike Dup (23C0029-MSD1)						Prepared: 03/01/23 10:26 Analyzed: 03/02/23 15:48						
<u>QC Source Sample: Non-SDG (A3B0710-03)</u>												
Total Cyanide	3620	846	1690	ug/kg dry	10	677	4270	-96	64-136%	11	47%	Q-03

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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23B0856 - Total Solids (Dry Weight)						Soil						
Duplicate (23B0856-DUP1)			Prepared: 02/22/23 13:40 Analyzed: 02/25/23 07:11									
<u>QC Source Sample: FC-022023-2067 (A3B0682-01)</u>												
<u>EPA 8000D</u>												
% Solids	23.3	---	1.00	%	1	---	22.9	---	---	2	10%	
Duplicate (23B0856-DUP2)			Prepared: 02/22/23 13:40 Analyzed: 02/25/23 07:11									
<u>QC Source Sample: Non-SDG (A3B0683-01)</u>												
% Solids	11.0	---	1.00	%	1	---	12.2	---	---	11	10%	Q-01
Duplicate (23B0856-DUP3)			Prepared: 02/22/23 19:40 Analyzed: 02/25/23 07:11									
<u>QC Source Sample: Non-SDG (A3B0769-01)</u>												
% Solids	74.8	---	1.00	%	1	---	74.6	---	---	0.3	10%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23C0014</u>							
A3B0682-01	Solid	NWTPH-Dx	02/20/23 13:30	03/01/23 08:47	10.21g/5mL	10g/5mL	0.98

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23B0779</u>							
A3B0682-01	Solid	NWTPH-Gx (MS)	02/20/23 13:30	02/21/23 11:32	5.16g/5mL	5g/5mL	0.97

Volatile Organic Compounds by EPA 8260D

Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23B0779</u>							
A3B0682-01	Solid	5035A/8260D	02/20/23 13:30	02/21/23 11:32	5.16g/5mL	5g/5mL	0.97

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Prep: EPA 1311/5030B TCLP Volatiles					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23C0157</u>							
A3B0682-01	Solid	1311/8260D	02/20/23 13:30	03/03/23 13:36	5mL/5mL	5mL/5mL	1.00

Semivolatile Organic Compounds by EPA 8270E

Prep: EPA 3546					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23C0015</u>							
A3B0682-01	Solid	EPA 8270E	02/20/23 13:30	03/01/23 08:48	15.33g/2mL	15g/2mL	0.98

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3051A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23C0066</u>							
A3B0682-01	Solid	EPA 6020B	02/20/23 13:30	03/02/23 06:56	0.476g/50mL	0.5g/50mL	1.05

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SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3051A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor

TCLP Metals by EPA 6020B (ICPMS)

Prep: EPA 1311/3015A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23C0080</u>							
A3B0682-01	Solid	1311/6020B	02/20/23 13:30	03/02/23 11:20	10mL/50mL	10mL/50mL	1.00

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Prep: ASTM D7511-12mod (S)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23C0029</u>							
A3B0682-01	Solid	D7511-12	02/20/23 13:30	03/01/23 10:26	2.5127g/50mL	2.5g/50mL	1.00

Percent Dry Weight

Prep: Total Solids (Dry Weight)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23B0856</u>							
A3B0682-01	Solid	EPA 8000D	02/20/23 13:30	02/22/23 13:40			NA

TCLP Extraction by EPA 1311

Prep: EPA 1311 (TCLP)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23C0028</u>							
A3B0682-01	Solid	EPA 1311	02/20/23 13:30	03/01/23 15:30	100g/2000g	100g/2000g	NA

Prep: EPA 1311 TCLP/ZHE					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23C0062</u>							
A3B0682-01	Solid	EPA 1311 ZHE	02/20/23 13:30	03/01/23 16:30	25.4g/502.8g	25g/500g	NA

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2749 Lockport Road
Niagara Falls, NY 14305

Project: Gasco -- Filtercake
Project Number: 111323
Project Manager: Chip Byrd

Report ID:
A3B0682 - 03 28 23 0832

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

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- B-02** Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
- COMP** Sample is a composite of discrete samples. See prep information for details.
- F-03** The result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.
- F-13** The chromatographic pattern does not resemble the fuel standard used for quantitation
- ICV-02** Estimated Result. Initial Calibration Verification (ICV) failed low.
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- M-05** Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
- Q-01** Spike recovery and/or RPD is outside acceptance limits.
- Q-03** Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
- Q-04** Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- Q-18** Matrix Spike results for this extraction batch are not reported due to the high dilution necessary for analysis of the source sample.
- Q-29** Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
- Q-31** Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
- Q-41** Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- Q-44** Room temperature during the 18 hr. TCLP tumbling procedure exceeded EPA recommended temperature range by no more than +/-2 degrees C for a maximum of 12 hours
- Q-44a** Room temperature during the 18 hr. TCLP tumbling procedure exceeded EPA recommended temperature range by no more than +/-2 degrees C for a maximum of 12hrs
- Q-44b** Room temperature during the 18 hr. TCLP tumbling procedure exceeded EPA recommended temperature range by no more than +/-2 degrees C for a maximum of 25.7
- Q-52** Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
- Q-54** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +1%. The results are reported as Estimated Values.
- Q-54a** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +11%. The results are reported as Estimated Values.
- Q-54b** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +13%. The results are reported as Estimated Values.

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3B0682 - 03 28 23 0832
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- Q-54c** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +43%. The results are reported as Estimated Values.
- Q-56** Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- S-01** Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
- S-02** Surrogate recovery cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- TCLP** This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23C0028.
- TCLPa** This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23C0062.
- V-15** Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

- DET Analyte DETECTED at or above the detection or reporting limit.
- ND Analyte NOT DETECTED at or above the detection or reporting limit.
- NR Result Not Reported
- RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

- Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.
- " dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
- " wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
- " " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

- " --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- " *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to 1/2 the Reporting Limit (RL).
-For Blank hits falling between 1/2 the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

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Table with 3 columns: Client (Sevenson Environmental Services, Inc.), Project (Gasco -- Filtercake), and Report ID (A3B0682 - 03 28 23 0832).

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

Handwritten signature of Darwin Thomas

Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3B0682 - 03 28 23 0832
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -
EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
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All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

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2749 Lockport Road
Niagara Falls, NY 14305

Project: Gasco -- Filtercake
Project Number: 111323
Project Manager: Chip Byrd

Report ID:
A3B0682 - 03 28 23 0832

APEX LABS **CHAIN OF CUSTODY** Lab # A3B0682 Project # 111323

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333 Project Mgr: Chip Byrd Project Name: Gasco -- Filtercake

Address: 2749 Lockport Road, Niagara Falls, NY 14305 Phone: (716) 583-2754 Fax: E-mail: chbyrd@sevenson.com

Sampled by: _____

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	8260 VOCs	1311/8260 TCPL VOCs	8270D LL Fill List	Dry Weight	Metals RCRA 8	Metals TPCL	Total Cyanide	NVTPH-DX	NVTPH-SX
FC-022023-2067		2/20/23	13:30	S	1	X	X	X	X	X	X	X	X	X
ANALYSIS REQUEST														
SPECIAL INSTRUCTIONS:														

<p>RELINQUISHED BY: Signature: <u>William Byrd</u> Date: <u>2-21-2023</u> Printed Name: <u>William Byrd</u> Time: <u>1000</u> Company: <u>SES</u></p>	<p>RECEIVED BY: Signature: <u>[Signature]</u> Date: <u>2/21/2023</u> Printed Name: <u>[Name]</u> Time: <u>1000</u> Company: <u>APEX CTR'S</u></p>
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Darwin Thomas, Business Development Director



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-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

APEX LABS COOLER RECEIPT FORM

Client: Sevenson Environmental Services, Inc. Element WO#: A3 B0682

Project/Project #: Gasco -- Filtercake 111323

Delivery Info:
 Date/time received: 2/21/23 @ 1000 By: EST
 Delivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen Other _____

Cooler Inspection Date/time inspected: 2/21/23 @ 1054 By: EST
 Chain of Custody included? Yes No _____
 Signed/dated by client? Yes No _____

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>2.8</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>Y</u>						
Ice type: (Gel/Real/Other)	<u>gel</u>						
Condition (In/Out):	<u>In</u>						

Cooler out of temp? (Y/N) Possible reason why: _____
 Green dots applied to out of temperature samples? Yes No _____
 Out of temperature samples form initiated? Yes No _____

Sample Inspection: Date/time inspected: 2/21/23 @ 11:10 By: RWP
 All samples intact? Yes No _____ Comments: _____

Bottle labels/COCs agree? Yes _____ No Comments: CONTAINER READS # 2067

COC/container discrepancies form initiated? Yes _____ No

Containers/volumes received appropriate for analysis? Yes No _____ Comments: _____

Do VOA vials have visible headspace? Yes _____ No _____ NA

Comments: _____

Water samples: pH checked: Yes _____ No _____ NA pH appropriate? Yes _____ No _____ NA

Comments: _____

Additional information:

Labeled by: RWP Witness: ABW Cooler Inspected by: RWP

Form Y-003 R-00

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Wednesday, May 3, 2023

Chip Byrd
Sevenson Environmental Services, Inc.
2749 Lockport Road
Niagara Falls, NY 14305

RE: A3C0842 - Gasco -- Filtercake - 111323

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3C0842, which was received by the laboratory on 3/23/2023 at 1:05:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler 1.8 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FC-032023-2081	A3C0842-01	Solid	03/20/23 12:30	03/23/23 13:05

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-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
FC-032023-2081 (A3C0842-01)				Matrix: Solid		Batch: 23D0059		CONT	
Diesel	2120	417	834	mg/kg dry	10	04/04/23 02:18	NWTPH-Dx	F-13	
Oil	ND	834	1670	mg/kg dry	10	04/04/23 02:18	NWTPH-Dx		
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 89 %</i>		<i>Limits: 50-150 %</i>		<i>10</i>	<i>04/04/23 02:18</i>	<i>NWTPH-Dx</i>	<i>S-05</i>

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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-032023-2081 (A3C0842-01RE1)				Matrix: Solid		Batch: 23C1025		V-16
Gasoline Range Organics	98500	17500	34900	ug/kg dry	50	03/27/23 18:53	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 110 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>03/27/23 18:53</i>	<i>NWTPH-Gx (MS)</i>
<i>1,4-Difluorobenzene (Sur)</i>		<i>103 %</i>		<i>50-150 %</i>		<i>1</i>	<i>03/27/23 18:53</i>	<i>NWTPH-Gx (MS)</i>

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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-032023-2081 (A3C0842-01RE1)				Matrix: Solid		Batch: 23C1025		V-16
Acetone	ND	3490	6990	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
Acrylonitrile	ND	349	699	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
Benzene	168	34.9	69.9	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
Bromobenzene	ND	87.3	175	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
Bromochloromethane	ND	175	349	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
Bromodichloromethane	ND	175	349	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
Bromoform	ND	349	699	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
Bromomethane	ND	3490	3490	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
2-Butanone (MEK)	ND	1750	3490	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
n-Butylbenzene	ND	175	349	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
sec-Butylbenzene	ND	175	349	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
tert-Butylbenzene	ND	175	349	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
Carbon disulfide	ND	1750	3490	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
Carbon tetrachloride	ND	175	349	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
Chlorobenzene	ND	87.3	175	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
Chloroethane	ND	1750	3490	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
Chloroform	ND	175	349	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
Chloromethane	ND	873	1750	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
2-Chlorotoluene	ND	175	349	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
4-Chlorotoluene	ND	175	349	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
Dibromochloromethane	ND	349	699	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	873	1750	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	175	349	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
Dibromomethane	ND	175	349	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
1,2-Dichlorobenzene	ND	87.3	175	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
1,3-Dichlorobenzene	ND	87.3	175	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
1,4-Dichlorobenzene	ND	87.3	175	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
Dichlorodifluoromethane	ND	349	699	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
1,1-Dichloroethane	ND	87.3	175	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	87.3	175	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
1,1-Dichloroethene	ND	87.3	175	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
cis-1,2-Dichloroethene	ND	87.3	175	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
trans-1,2-Dichloroethene	ND	87.3	175	ug/kg dry	50	03/27/23 18:53	5035A/8260D	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-032023-2081 (A3C0842-01RE1)				Matrix: Solid		Batch: 23C1025		V-16
1,2-Dichloropropane	ND	87.3	175	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
1,3-Dichloropropane	ND	175	349	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
2,2-Dichloropropane	ND	175	349	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
1,1-Dichloropropene	ND	175	349	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
cis-1,3-Dichloropropene	ND	175	349	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
trans-1,3-Dichloropropene	ND	175	349	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
Ethylbenzene	279	87.3	175	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
Hexachlorobutadiene	ND	349	699	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
2-Hexanone	ND	3490	3490	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
Isopropylbenzene	ND	175	349	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
4-Isopropyltoluene	ND	175	349	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
Methylene chloride	ND	1750	3490	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
4-Methyl-2-pentanone (MIBK)	ND	3490	3490	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	175	349	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
Naphthalene	521	349	699	ug/kg dry	50	03/27/23 18:53	5035A/8260D	J
n-Propylbenzene	ND	87.3	175	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
Styrene	ND	175	349	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	87.3	175	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
1,1,1,2,2-Tetrachloroethane	ND	175	349	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
Tetrachloroethene (PCE)	ND	87.3	175	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
Toluene	ND	175	349	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
1,2,3-Trichlorobenzene	ND	873	1750	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
1,2,4-Trichlorobenzene	ND	873	1750	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
1,1,1-Trichloroethane	ND	87.3	175	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
1,1,2-Trichloroethane	ND	87.3	175	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
Trichloroethene (TCE)	ND	87.3	175	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
Trichlorofluoromethane	ND	349	699	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
1,2,3-Trichloropropane	ND	175	349	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
1,2,4-Trimethylbenzene	409	175	349	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
1,3,5-Trimethylbenzene	175	175	349	ug/kg dry	50	03/27/23 18:53	5035A/8260D	J
Vinyl chloride	ND	87.3	175	ug/kg dry	50	03/27/23 18:53	5035A/8260D	
m,p-Xylene	227	175	349	ug/kg dry	50	03/27/23 18:53	5035A/8260D	J
o-Xylene	147	87.3	175	ug/kg dry	50	03/27/23 18:53	5035A/8260D	J

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-032023-2081 (A3C0842-01RE1)				Matrix: Solid		Batch: 23C1025		V-16
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 109 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>03/27/23 18:53</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>			<i>94 %</i>	<i>80-120 %</i>	<i>1</i>	<i>03/27/23 18:53</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>95 %</i>	<i>79-120 %</i>	<i>1</i>	<i>03/27/23 18:53</i>	<i>5035A/8260D</i>	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
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ANALYTICAL SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-032023-2081 (A3C0842-01)				Matrix: Solid		Batch: 23D0153		CONT
Benzene	ND	6.25	12.5	ug/L	50	04/05/23 13:13	1311/8260D	
2-Butanone (MEK)	ND	250	500	ug/L	50	04/05/23 13:13	1311/8260D	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	04/05/23 13:13	1311/8260D	
Chlorobenzene	ND	12.5	25.0	ug/L	50	04/05/23 13:13	1311/8260D	
Chloroform	ND	25.0	50.0	ug/L	50	04/05/23 13:13	1311/8260D	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	04/05/23 13:13	1311/8260D	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	04/05/23 13:13	1311/8260D	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	04/05/23 13:13	1311/8260D	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	04/05/23 13:13	1311/8260D	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	04/05/23 13:13	1311/8260D	
Vinyl chloride	ND	12.5	25.0	ug/L	50	04/05/23 13:13	1311/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>04/05/23 13:13</i>	<i>1311/8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/05/23 13:13</i>	<i>1311/8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>109 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/05/23 13:13</i>	<i>1311/8260D</i>

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-032023-2081 (A3C0842-01)				Matrix: Solid		Batch: 23C1019		CONT
Acenaphthene	27400	1110	2230	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Acenaphthylene	ND	3330	3330	ug/kg dry	200	03/27/23 19:18	EPA 8270E	R-02
Anthracene	29800	1110	2230	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Benz(a)anthracene	19800	1110	2230	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Benzo(a)pyrene	26200	1670	3330	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Benzo(b)fluoranthene	19100	1670	3330	ug/kg dry	200	03/27/23 19:18	EPA 8270E	B-02
Benzo(k)fluoranthene	7710	1670	3330	ug/kg dry	200	03/27/23 19:18	EPA 8270E	M-05
Benzo(g,h,i)perylene	14000	1110	2230	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Chrysene	25500	1110	2230	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Dibenz(a,h)anthracene	1520	1110	2230	ug/kg dry	200	03/27/23 19:18	EPA 8270E	J
Fluoranthene	94000	1110	2230	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Fluorene	21300	1110	2230	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Indeno(1,2,3-cd)pyrene	12500	1110	2230	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
1-Methylnaphthalene	9380	2230	4440	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
2-Methylnaphthalene	4580	2230	4440	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Naphthalene	2260	2230	4440	ug/kg dry	200	03/27/23 19:18	EPA 8270E	J, B
Phenanthrene	149000	1110	2230	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Pyrene	111000	1110	2230	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Carbazole	1990	1670	3330	ug/kg dry	200	03/27/23 19:18	EPA 8270E	J
Dibenzofuran	2640	1110	2230	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
2-Chlorophenol	ND	5560	11100	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
4-Chloro-3-methylphenol	ND	11100	22300	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
2,4-Dichlorophenol	ND	5560	11100	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
2,4-Dimethylphenol	ND	5560	11100	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
2,4-Dinitrophenol	ND	27800	55600	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	27800	55600	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
2-Methylphenol	ND	2780	5560	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
3+4-Methylphenol(s)	ND	2780	5560	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
2-Nitrophenol	ND	11100	22300	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
4-Nitrophenol	ND	11100	22300	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Pentachlorophenol (PCP)	ND	11100	22300	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Phenol	ND	2230	4440	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	5560	11100	ug/kg dry	200	03/27/23 19:18	EPA 8270E	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-032023-2081 (A3C0842-01)				Matrix: Solid		Batch: 23C1019		CONT
2,3,5,6-Tetrachlorophenol	ND	5560	11100	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
2,4,5-Trichlorophenol	ND	5560	11100	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
2,4,6-Trichlorophenol	ND	5560	11100	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	16700	33300	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Butyl benzyl phthalate	ND	11100	22300	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Diethylphthalate	ND	11100	22300	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Dimethylphthalate	ND	11100	22300	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Di-n-butylphthalate	ND	11100	22300	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Di-n-octyl phthalate	ND	11100	22300	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
N-Nitrosodimethylamine	ND	2780	5560	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	2780	5560	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
N-Nitrosodiphenylamine	ND	5560	5560	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	2780	5560	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	2780	5560	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	2780	5560	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Hexachlorobenzene	ND	1110	2230	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Hexachlorobutadiene	ND	2780	5560	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Hexachlorocyclopentadiene	ND	5560	11100	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Hexachloroethane	ND	2780	5560	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
2-Chloronaphthalene	ND	1110	2230	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
1,2,4-Trichlorobenzene	ND	2780	5560	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
4-Bromophenyl phenyl ether	ND	2780	5560	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	2780	5560	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Aniline	ND	5560	11100	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
4-Chloroaniline	ND	2780	5560	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
2-Nitroaniline	ND	22300	44400	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
3-Nitroaniline	ND	22300	44400	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
4-Nitroaniline	ND	22300	44400	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Nitrobenzene	ND	11100	22300	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
2,4-Dinitrotoluene	ND	11100	22300	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
2,6-Dinitrotoluene	ND	11100	22300	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Benzoic acid	ND	139000	278000	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Benzyl alcohol	ND	5560	11100	ug/kg dry	200	03/27/23 19:18	EPA 8270E	

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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-032023-2081 (A3C0842-01)				Matrix: Solid		Batch: 23C1019		CONT
Isophorone	ND	2780	5560	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Azobenzene (1,2-DPH)	ND	2780	5560	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	27800	55600	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
3,3'-Dichlorobenzidine	ND	22300	44400	ug/kg dry	200	03/27/23 19:18	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	27800	55600	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
1,3-Dinitrobenzene	ND	27800	55600	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
1,4-Dinitrobenzene	ND	27800	55600	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
Pyridine	ND	5560	11100	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
1,2-Dichlorobenzene	ND	2780	5560	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
1,3-Dichlorobenzene	ND	2780	5560	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
1,4-Dichlorobenzene	ND	2780	5560	ug/kg dry	200	03/27/23 19:18	EPA 8270E	
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>			<i>Recovery: 64 %</i>	<i>Limits: 37-122 %</i>	200	03/27/23 19:18	EPA 8270E	S-05
<i>2-Fluorobiphenyl (Surr)</i>			<i>84 %</i>	<i>44-120 %</i>	200	03/27/23 19:18	EPA 8270E	S-05
<i>Phenol-d6 (Surr)</i>			<i>56 %</i>	<i>33-122 %</i>	200	03/27/23 19:18	EPA 8270E	S-05
<i>p-Terphenyl-d14 (Surr)</i>			<i>99 %</i>	<i>54-127 %</i>	200	03/27/23 19:18	EPA 8270E	S-05
<i>2-Fluorophenol (Surr)</i>			<i>37 %</i>	<i>35-120 %</i>	200	03/27/23 19:18	EPA 8270E	S-05
<i>2,4,6-Tribromophenol (Surr)</i>			<i>275 %</i>	<i>39-132 %</i>	200	03/27/23 19:18	EPA 8270E	S-05

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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-032023-2081 (A3C0842-01)				Matrix: Solid				
Batch: 23C1191								
Arsenic	9760	2250	4500	ug/kg dry	10	03/30/23 21:24	EPA 6020B	CONT
Barium	220000	2250	4500	ug/kg dry	10	03/30/23 21:24	EPA 6020B	CONT
Cadmium	ND	450	900	ug/kg dry	10	03/30/23 21:24	EPA 6020B	CONT
Chromium	ND	2250	4500	ug/kg dry	10	03/30/23 21:24	EPA 6020B	CONT
Lead	635	450	900	ug/kg dry	10	03/30/23 21:24	EPA 6020B	CONT, J
Mercury	ND	180	360	ug/kg dry	10	03/30/23 21:24	EPA 6020B	CONT
Selenium	ND	2250	4500	ug/kg dry	10	03/30/23 21:24	EPA 6020B	CONT
Silver	ND	450	900	ug/kg dry	10	03/30/23 21:24	EPA 6020B	CONT

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ANALYTICAL SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
FC-032023-2081 (A3C0842-01)				Matrix: Solid					
<u>Batch: 23C1102</u>									
Arsenic	ND	50.0	100	ug/L	10	03/29/23 13:57	1311/6020B	CONT,Q-44a	
Barium	ND	2500	5000	ug/L	10	03/29/23 13:57	1311/6020B	CONT,Q-44a	
Cadmium	ND	50.0	100	ug/L	10	03/29/23 13:57	1311/6020B	CONT,Q-44a	
Chromium	ND	50.0	100	ug/L	10	03/29/23 13:57	1311/6020B	CONT,Q-44a	
Lead	ND	25.0	50.0	ug/L	10	03/29/23 13:57	1311/6020B	CONT,Q-44a	
Mercury	ND	3.75	7.00	ug/L	10	03/29/23 13:57	1311/6020B	CONT,Q-44a	
Selenium	ND	50.0	100	ug/L	10	03/29/23 13:57	1311/6020B	CONT,Q-44a	
Silver	ND	50.0	100	ug/L	10	03/29/23 13:57	1311/6020B	CONT,Q-44a	

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ANALYTICAL SAMPLE RESULTS

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-032023-2081 (A3C0842-01RE1)				Matrix: Solid		Batch: 23C1248		CONT
Total Cyanide	4050	208	416	ug/kg dry	1	03/31/23 14:49	D7511-12	

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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-032023-2081 (A3C0842-01)				Matrix: Solid		Batch: 23C0983		CONT
% Solids	23.9	1.00	1.00	%	1	03/25/23 11:50	EPA 8000D	

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ANALYTICAL SAMPLE RESULTS

TCLP Extraction by EPA 1311

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-032023-2081 (A3C0842-01)				Matrix: Solid		Batch: 23C1029		CONT
TCLP Extraction	PREP			N/A	1	03/27/23 15:35	EPA 1311	
TCLP ZHE Extraction	0.00			N/A	1	04/03/23 14:27	EPA 1311 ZHE	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0059 - EPA 3546 (Fuels)						Solid						
Blank (23D0059-BLK1)						Prepared: 04/03/23 14:53 Analyzed: 04/04/23 01:37						
<u>NWTPH-Dx</u>												
Diesel	ND	10.0	20.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	20.0	40.0	mg/kg wet	1	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 86 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
LCS (23D0059-BS1)						Prepared: 04/03/23 14:53 Analyzed: 04/04/23 01:58						
<u>NWTPH-Dx</u>												
Diesel	103	10.0	20.0	mg/kg wet	1	125	---	83	38-132%	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 87 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
Duplicate (23D0059-DUP1)						Prepared: 04/03/23 14:53 Analyzed: 04/04/23 02:58						
QC Source Sample: FC-032023-2081 (A3C0842-01)												
<u>NWTPH-Dx</u>												
Diesel	2160	405	811	mg/kg dry	10	---	2120	---	---	2	30%	F-13
Oil	ND	811	1620	mg/kg dry	10	---	ND	---	---	---	30%	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 85 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 10x</i>						S-05

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0957 - EPA 5035A						Soil						
Blank (23C0957-BLK1)			Prepared: 03/24/23 08:46 Analyzed: 03/24/23 10:36									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	2500	5000	ug/kg wet	50	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 104 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>102 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (23C0957-BS2)			Prepared: 03/24/23 08:46 Analyzed: 03/24/23 10:04									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	22600	2500	5000	ug/kg wet	50	25000	---	90	80-120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 105 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>101 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (23C0957-DUP1)			Prepared: 03/21/23 10:40 Analyzed: 03/24/23 11:27									
<u>QC Source Sample: Non-SDG (A3C0780-02)</u>												
Gasoline Range Organics	ND	6040	12100	ug/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 101 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>102 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (23C0957-DUP2)			Prepared: 03/22/23 10:35 Analyzed: 03/24/23 12:18									
<u>QC Source Sample: Non-SDG (A3C0846-01)</u>												
Gasoline Range Organics	ND	3920	7840	ug/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 103 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>104 %</i>		<i>50-150 %</i>		<i>"</i>						

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1025 - EPA 5035A						Soil						
Blank (23C1025-BLK1)			Prepared: 03/27/23 08:14 Analyzed: 03/27/23 10:47									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	2500	5000	ug/kg wet	50	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 101 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>102 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (23C1025-BS2)			Prepared: 03/27/23 08:14 Analyzed: 03/27/23 10:17									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	23500	2500	5000	ug/kg wet	50	25000	---	94	80-120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 101 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>101 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (23C1025-DUP1)			Prepared: 03/24/23 09:05 Analyzed: 03/27/23 12:30									
<u>QC Source Sample: Non-SDG (A3C0889-01)</u>												
Gasoline Range Organics	ND	3060	6120	ug/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 109 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>101 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (23C1025-DUP2)			Prepared: 03/22/23 10:45 Analyzed: 03/27/23 14:12									
<u>QC Source Sample: Non-SDG (A3C0905-01)</u>												
Gasoline Range Organics	ND	2780	5550	ug/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 103 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>101 %</i>		<i>50-150 %</i>		<i>"</i>						

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0957 - EPA 5035A						Soil						
Blank (23C0957-BLK1)			Prepared: 03/24/23 08:46 Analyzed: 03/24/23 10:36									
<u>5035A/8260D</u>												
Acetone	ND	500	1000	ug/kg wet	50	---	---	---	---	---	---	
Acrylonitrile	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Benzene	ND	5.00	10.0	ug/kg wet	50	---	---	---	---	---	---	
Bromobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Bromochloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromodichloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromoform	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Bromomethane	ND	500	500	ug/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
n-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Carbon disulfide	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Chloroethane	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chloromethane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromochloromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromomethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0957 - EPA 5035A						Soil						
Blank (23C0957-BLK1)			Prepared: 03/24/23 08:46 Analyzed: 03/24/23 10:36									
1,2-Dichloropropane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	500	500	ug/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Methylene chloride	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	500	500	ug/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Styrene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 108 % Limits: 80-120 % Dilution: 1x

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0957 - EPA 5035A						Soil						
Blank (23C0957-BLK1)						Prepared: 03/24/23 08:46 Analyzed: 03/24/23 10:36						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 96 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>79-120 %</i>		<i>"</i>						
LCS (23C0957-BS1)						Prepared: 03/24/23 08:46 Analyzed: 03/24/23 09:38						
5035A/8260D												
Acetone	1740	500	1000	ug/kg wet	50	2000	---	87	80-120%	---	---	
Acrylonitrile	970	50.0	100	ug/kg wet	50	1000	---	97	80-120%	---	---	
Benzene	1040	5.00	10.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Bromobenzene	994	12.5	25.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
Bromochloromethane	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Bromodichloromethane	1090	25.0	50.0	ug/kg wet	50	1000	---	109	80-120%	---	---	
Bromoform	1220	50.0	100	ug/kg wet	50	1000	---	122	80-120%	---	---	Q-56
Bromomethane	1520	500	500	ug/kg wet	50	1000	---	152	80-120%	---	---	Q-56
2-Butanone (MEK)	1890	250	500	ug/kg wet	50	2000	---	95	80-120%	---	---	
n-Butylbenzene	894	25.0	50.0	ug/kg wet	50	1000	---	89	80-120%	---	---	
sec-Butylbenzene	938	25.0	50.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
tert-Butylbenzene	837	25.0	50.0	ug/kg wet	50	1000	---	84	80-120%	---	---	
Carbon disulfide	930	250	500	ug/kg wet	50	1000	---	93	80-120%	---	---	
Carbon tetrachloride	1200	25.0	50.0	ug/kg wet	50	1000	---	120	80-120%	---	---	
Chlorobenzene	977	12.5	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Chloroethane	1550	250	500	ug/kg wet	50	1000	---	155	80-120%	---	---	Q-56
Chloroform	1070	25.0	50.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
Chloromethane	961	125	250	ug/kg wet	50	1000	---	96	80-120%	---	---	
2-Chlorotoluene	936	25.0	50.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
4-Chlorotoluene	921	25.0	50.0	ug/kg wet	50	1000	---	92	80-120%	---	---	
Dibromochloromethane	1100	50.0	100	ug/kg wet	50	1000	---	110	80-120%	---	---	
1,2-Dibromo-3-chloropropane	816	125	250	ug/kg wet	50	1000	---	82	80-120%	---	---	
1,2-Dibromoethane (EDB)	972	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
Dibromomethane	1050	25.0	50.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
1,2-Dichlorobenzene	971	12.5	25.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
1,3-Dichlorobenzene	968	12.5	25.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
1,4-Dichlorobenzene	968	12.5	25.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
Dichlorodifluoromethane	1170	50.0	100	ug/kg wet	50	1000	---	117	80-120%	---	---	
1,1-Dichloroethane	1040	12.5	25.0	ug/kg wet	50	1000	---	104	80-120%	---	---	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0957 - EPA 5035A						Soil						
LCS (23C0957-BS1)			Prepared: 03/24/23 08:46 Analyzed: 03/24/23 09:38									
1,2-Dichloroethane (EDC)	1060	12.5	25.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
1,1-Dichloroethene	1070	12.5	25.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
cis-1,2-Dichloroethene	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
trans-1,2-Dichloroethene	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
1,2-Dichloropropane	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
1,3-Dichloropropane	960	25.0	50.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
2,2-Dichloropropane	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,1-Dichloropropene	1060	25.0	50.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
cis-1,3-Dichloropropene	962	25.0	50.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
trans-1,3-Dichloropropene	988	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
Ethylbenzene	936	12.5	25.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
Hexachlorobutadiene	942	50.0	100	ug/kg wet	50	1000	---	94	80-120%	---	---	
2-Hexanone	1510	500	500	ug/kg wet	50	2000	---	75	80-120%	---	---	Q-55
Isopropylbenzene	932	25.0	50.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
4-Isopropyltoluene	906	25.0	50.0	ug/kg wet	50	1000	---	91	80-120%	---	---	
Methylene chloride	1060	250	500	ug/kg wet	50	1000	---	106	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	1550	500	500	ug/kg wet	50	2000	---	77	80-120%	---	---	Q-55
Methyl tert-butyl ether (MTBE)	934	25.0	50.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
Naphthalene	862	50.0	100	ug/kg wet	50	1000	---	86	80-120%	---	---	
n-Propylbenzene	950	12.5	25.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
Styrene	852	25.0	50.0	ug/kg wet	50	1000	---	85	80-120%	---	---	
1,1,1,2-Tetrachloroethane	1060	12.5	25.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
1,1,2,2-Tetrachloroethane	878	25.0	50.0	ug/kg wet	50	1000	---	88	80-120%	---	---	
Tetrachloroethene (PCE)	1030	12.5	25.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
Toluene	936	25.0	50.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
1,2,3-Trichlorobenzene	910	125	250	ug/kg wet	50	1000	---	91	80-120%	---	---	
1,2,4-Trichlorobenzene	941	125	250	ug/kg wet	50	1000	---	94	80-120%	---	---	
1,1,1-Trichloroethane	1090	12.5	25.0	ug/kg wet	50	1000	---	109	80-120%	---	---	
1,1,2-Trichloroethane	984	12.5	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Trichloroethene (TCE)	1170	12.5	25.0	ug/kg wet	50	1000	---	117	80-120%	---	---	
Trichlorofluoromethane	1620	50.0	100	ug/kg wet	50	1000	---	162	80-120%	---	---	Q-56
1,2,3-Trichloropropane	932	25.0	50.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
1,2,4-Trimethylbenzene	916	25.0	50.0	ug/kg wet	50	1000	---	92	80-120%	---	---	
1,3,5-Trimethylbenzene	950	25.0	50.0	ug/kg wet	50	1000	---	95	80-120%	---	---	

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Darwin Thomas, Business Development Director



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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0957 - EPA 5035A						Soil						
LCS (23C0957-BS1)						Prepared: 03/24/23 08:46 Analyzed: 03/24/23 09:38						
Vinyl chloride	1180	12.5	25.0	ug/kg wet	50	1000	---	118	80-120%	---	---	
m,p-Xylene	1910	25.0	50.0	ug/kg wet	50	2000	---	96	80-120%	---	---	
o-Xylene	910	12.5	25.0	ug/kg wet	50	1000	---	91	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 108 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (23C0957-DUP1)						Prepared: 03/21/23 10:40 Analyzed: 03/24/23 11:27						
QC Source Sample: Non-SDG (A3C0780-02)												
Acetone	ND	1210	2420	ug/kg dry	50	---	ND	---	---	---	30%	
Acrylonitrile	ND	121	242	ug/kg dry	50	---	ND	---	---	---	30%	
Benzene	27.8	12.1	24.2	ug/kg dry	50	---	27.8	---	---	0	30%	
Bromobenzene	ND	30.2	60.4	ug/kg dry	50	---	ND	---	---	---	30%	
Bromochloromethane	ND	60.4	121	ug/kg dry	50	---	ND	---	---	---	30%	
Bromodichloromethane	ND	60.4	121	ug/kg dry	50	---	ND	---	---	---	30%	
Bromoform	ND	121	242	ug/kg dry	50	---	ND	---	---	---	30%	
Bromomethane	ND	1210	1210	ug/kg dry	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	604	1210	ug/kg dry	50	---	ND	---	---	---	30%	
n-Butylbenzene	ND	60.4	121	ug/kg dry	50	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	60.4	121	ug/kg dry	50	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	60.4	121	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon disulfide	ND	604	1210	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	60.4	121	ug/kg dry	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	30.2	60.4	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroethane	ND	604	1210	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroform	ND	60.4	121	ug/kg dry	50	---	ND	---	---	---	30%	
Chloromethane	ND	302	604	ug/kg dry	50	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	60.4	121	ug/kg dry	50	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	60.4	121	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromochloromethane	ND	121	242	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	302	604	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	60.4	121	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromomethane	ND	60.4	121	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	30.2	60.4	ug/kg dry	50	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0957 - EPA 5035A						Soil						
Duplicate (23C0957-DUP1)			Prepared: 03/21/23 10:40 Analyzed: 03/24/23 11:27									
QC Source Sample: Non-SDG (A3C0780-02)												
1,3-Dichlorobenzene	ND	30.2	60.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	30.2	60.4	ug/kg dry	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	121	242	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	30.2	60.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	30.2	60.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	30.2	60.4	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	30.2	60.4	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	30.2	60.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	30.2	60.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	60.4	121	ug/kg dry	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	60.4	121	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	60.4	121	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	60.4	121	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	60.4	121	ug/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	30.2	60.4	ug/kg dry	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	121	242	ug/kg dry	50	---	ND	---	---	---	30%	
2-Hexanone	ND	1210	1210	ug/kg dry	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	60.4	121	ug/kg dry	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	60.4	121	ug/kg dry	50	---	ND	---	---	---	30%	
Methylene chloride	ND	604	1210	ug/kg dry	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	1210	1210	ug/kg dry	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	60.4	121	ug/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	121	242	ug/kg dry	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	30.2	60.4	ug/kg dry	50	---	ND	---	---	---	30%	
Styrene	ND	60.4	121	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	30.2	60.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	60.4	121	ug/kg dry	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	30.2	60.4	ug/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	60.4	121	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	302	604	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	302	604	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	30.2	60.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	30.2	60.4	ug/kg dry	50	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0957 - EPA 5035A						Soil						
Duplicate (23C0957-DUP1)			Prepared: 03/21/23 10:40 Analyzed: 03/24/23 11:27									
QC Source Sample: Non-SDG (A3C0780-02)												
Trichloroethene (TCE)	ND	30.2	60.4	ug/kg dry	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	121	242	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	60.4	121	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	60.4	121	ug/kg dry	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	60.4	121	ug/kg dry	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	30.2	60.4	ug/kg dry	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	60.4	121	ug/kg dry	50	---	ND	---	---	---	30%	
o-Xylene	ND	30.2	60.4	ug/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 108 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (23C0957-DUP2)			Prepared: 03/22/23 10:35 Analyzed: 03/24/23 12:18									
QC Source Sample: Non-SDG (A3C0846-01)												
Acetone	ND	784	1570	ug/kg dry	50	---	ND	---	---	---	30%	
Acrylonitrile	ND	78.4	157	ug/kg dry	50	---	ND	---	---	---	30%	
Benzene	ND	7.84	15.7	ug/kg dry	50	---	ND	---	---	---	30%	
Bromobenzene	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
Bromochloromethane	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
Bromodichloromethane	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
Bromoform	ND	78.4	157	ug/kg dry	50	---	ND	---	---	---	30%	
Bromomethane	ND	784	784	ug/kg dry	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	392	784	ug/kg dry	50	---	ND	---	---	---	30%	
n-Butylbenzene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon disulfide	ND	392	784	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroethane	ND	392	784	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroform	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
Chloromethane	ND	196	392	ug/kg dry	50	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0957 - EPA 5035A						Soil						
Duplicate (23C0957-DUP2)			Prepared: 03/22/23 10:35 Analyzed: 03/24/23 12:18									
QC Source Sample: Non-SDG (A3C0846-01)												
4-Chlorotoluene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromochloromethane	ND	78.4	157	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	196	392	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromomethane	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	78.4	157	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	78.4	157	ug/kg dry	50	---	ND	---	---	---	30%	
2-Hexanone	ND	78.4	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
Methylene chloride	ND	392	784	ug/kg dry	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	78.4	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	78.4	157	ug/kg dry	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
Styrene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0957 - EPA 5035A						Soil						
Duplicate (23C0957-DUP2)			Prepared: 03/22/23 10:35 Analyzed: 03/24/23 12:18									
QC Source Sample: Non-SDG (A3C0846-01)												
Tetrachloroethene (PCE)	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	196	392	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	196	392	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	78.4	157	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
o-Xylene	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 108 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>79-120 %</i>		<i>"</i>						

Matrix Spike (23C0957-MS1)						Prepared: 03/22/23 16:37 Analyzed: 03/24/23 16:07						V-15
QC Source Sample: Non-SDG (A3C0802-08)												
5035A/8260D												
Acetone	3010	772	1540	ug/kg dry	50	3090	ND	97	36-164%	---	---	
Acrylonitrile	1640	77.2	154	ug/kg dry	50	1540	ND	106	65-134%	---	---	
Benzene	1800	7.72	15.4	ug/kg dry	50	1540	ND	116	77-121%	---	---	
Bromobenzene	1610	19.3	38.6	ug/kg dry	50	1540	ND	104	78-121%	---	---	
Bromochloromethane	1760	38.6	77.2	ug/kg dry	50	1540	ND	114	78-125%	---	---	
Bromodichloromethane	1830	38.6	77.2	ug/kg dry	50	1540	ND	118	75-127%	---	---	
Bromoform	2020	77.2	154	ug/kg dry	50	1540	ND	131	67-132%	---	---	Q-54b
Bromomethane	2940	772	772	ug/kg dry	50	1540	ND	191	53-143%	---	---	Q-54d
2-Butanone (MEK)	3250	386	772	ug/kg dry	50	3090	ND	105	51-148%	---	---	
n-Butylbenzene	1650	38.6	77.2	ug/kg dry	50	1540	ND	107	70-128%	---	---	
sec-Butylbenzene	1660	38.6	77.2	ug/kg dry	50	1540	ND	107	73-126%	---	---	
tert-Butylbenzene	1510	38.6	77.2	ug/kg dry	50	1540	ND	98	73-125%	---	---	

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ANALYTICAL REPORT

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0957 - EPA 5035A						Soil						
Matrix Spike (23C0957-MS1)						Prepared: 03/22/23 16:37 Analyzed: 03/24/23 16:07						V-15
QC Source Sample: Non-SDG (A3C0802-08)												
Carbon disulfide	1690	386	772	ug/kg dry	50	1540	ND	109	63-132%	---	---	
Carbon tetrachloride	2090	38.6	77.2	ug/kg dry	50	1540	ND	135	70-135%	---	---	
Chlorobenzene	1670	19.3	38.6	ug/kg dry	50	1540	ND	108	79-120%	---	---	
Chloroethane	3320	386	772	ug/kg dry	50	1540	ND	215	59-139%	---	---	Q-54e
Chloroform	1810	38.6	77.2	ug/kg dry	50	1540	ND	117	78-123%	---	---	
Chloromethane	1760	193	386	ug/kg dry	50	1540	ND	114	50-136%	---	---	
2-Chlorotoluene	1620	38.6	77.2	ug/kg dry	50	1540	ND	105	75-122%	---	---	
4-Chlorotoluene	1550	38.6	77.2	ug/kg dry	50	1540	ND	100	72-124%	---	---	
Dibromochloromethane	1830	77.2	154	ug/kg dry	50	1540	ND	119	74-126%	---	---	
1,2-Dibromo-3-chloropropane	1420	193	386	ug/kg dry	50	1540	ND	92	61-132%	---	---	
1,2-Dibromoethane (EDB)	1590	38.6	77.2	ug/kg dry	50	1540	ND	103	78-122%	---	---	
Dibromomethane	1740	38.6	77.2	ug/kg dry	50	1540	ND	113	78-125%	---	---	
1,2-Dichlorobenzene	1620	19.3	38.6	ug/kg dry	50	1540	ND	105	78-121%	---	---	
1,3-Dichlorobenzene	1640	19.3	38.6	ug/kg dry	50	1540	ND	106	77-121%	---	---	
1,4-Dichlorobenzene	1610	19.3	38.6	ug/kg dry	50	1540	ND	104	75-120%	---	---	
Dichlorodifluoromethane	2130	77.2	154	ug/kg dry	50	1540	ND	138	29-149%	---	---	
1,1-Dichloroethane	1810	19.3	38.6	ug/kg dry	50	1540	ND	118	76-125%	---	---	
1,2-Dichloroethane (EDC)	1750	19.3	38.6	ug/kg dry	50	1540	ND	114	73-128%	---	---	
1,1-Dichloroethene	1910	19.3	38.6	ug/kg dry	50	1540	ND	123	70-131%	---	---	
cis-1,2-Dichloroethene	1740	19.3	38.6	ug/kg dry	50	1540	ND	113	77-123%	---	---	
trans-1,2-Dichloroethene	1780	19.3	38.6	ug/kg dry	50	1540	ND	115	74-125%	---	---	
1,2-Dichloropropane	1750	19.3	38.6	ug/kg dry	50	1540	ND	113	76-123%	---	---	
1,3-Dichloropropane	1630	38.6	77.2	ug/kg dry	50	1540	ND	105	77-121%	---	---	
2,2-Dichloropropane	1710	38.6	77.2	ug/kg dry	50	1540	ND	110	67-133%	---	---	
1,1-Dichloropropene	1850	38.6	77.2	ug/kg dry	50	1540	ND	120	76-125%	---	---	
cis-1,3-Dichloropropene	1580	38.6	77.2	ug/kg dry	50	1540	ND	102	74-126%	---	---	
trans-1,3-Dichloropropene	1610	38.6	77.2	ug/kg dry	50	1540	ND	105	71-130%	---	---	
Ethylbenzene	1630	19.3	38.6	ug/kg dry	50	1540	ND	105	76-122%	---	---	
Hexachlorobutadiene	1830	77.2	154	ug/kg dry	50	1540	ND	118	61-135%	---	---	
2-Hexanone	2560	772	772	ug/kg dry	50	3090	ND	83	53-145%	---	---	Q-54k
Isopropylbenzene	1620	38.6	77.2	ug/kg dry	50	1540	ND	105	68-134%	---	---	
4-Isopropyltoluene	1590	38.6	77.2	ug/kg dry	50	1540	ND	103	73-127%	---	---	
Methylene chloride	1790	386	772	ug/kg dry	50	1540	ND	116	70-128%	---	---	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0957 - EPA 5035A						Soil						
Matrix Spike (23C0957-MS1)						Prepared: 03/22/23 16:37 Analyzed: 03/24/23 16:07						V-15
QC Source Sample: Non-SDG (A3C0802-08)												
4-Methyl-2-pentanone (MiBK)	2680	772	772	ug/kg dry	50	3090	ND	87	65-135%	---	---	Q-54i
Methyl tert-butyl ether (MTBE)	1530	38.6	77.2	ug/kg dry	50	1540	ND	99	73-125%	---	---	
Naphthalene	1670	77.2	154	ug/kg dry	50	1540	ND	108	62-129%	---	---	
n-Propylbenzene	1660	19.3	38.6	ug/kg dry	50	1540	ND	108	73-125%	---	---	
Styrene	1480	38.6	77.2	ug/kg dry	50	1540	ND	96	76-124%	---	---	
1,1,1,2-Tetrachloroethane	1770	19.3	38.6	ug/kg dry	50	1540	ND	115	78-125%	---	---	
1,1,2,2-Tetrachloroethane	1580	38.6	77.2	ug/kg dry	50	1540	ND	97	70-124%	---	---	
Tetrachloroethene (PCE)	1770	19.3	38.6	ug/kg dry	50	1540	ND	115	73-128%	---	---	
Toluene	1630	38.6	77.2	ug/kg dry	50	1540	ND	105	77-121%	---	---	
1,2,3-Trichlorobenzene	1630	193	386	ug/kg dry	50	1540	ND	106	66-130%	---	---	
1,2,4-Trichlorobenzene	1710	193	386	ug/kg dry	50	1540	ND	111	67-129%	---	---	
1,1,1-Trichloroethane	1870	19.3	38.6	ug/kg dry	50	1540	ND	121	73-130%	---	---	
1,1,2-Trichloroethane	1640	19.3	38.6	ug/kg dry	50	1540	ND	106	78-121%	---	---	
Trichloroethene (TCE)	1940	19.3	38.6	ug/kg dry	50	1540	ND	125	77-123%	---	---	Q-01
Trichlorofluoromethane	9070	77.2	154	ug/kg dry	50	1540	ND	587	62-140%	---	---	Q-54f
1,2,3-Trichloropropane	1520	38.6	77.2	ug/kg dry	50	1540	ND	99	73-125%	---	---	
1,2,4-Trimethylbenzene	1540	38.6	77.2	ug/kg dry	50	1540	ND	100	75-123%	---	---	
1,3,5-Trimethylbenzene	1590	38.6	77.2	ug/kg dry	50	1540	ND	103	73-124%	---	---	
Vinyl chloride	2180	19.3	38.6	ug/kg dry	50	1540	ND	141	56-135%	---	---	Q-01
m,p-Xylene	3240	38.6	77.2	ug/kg dry	50	3090	ND	105	77-124%	---	---	
o-Xylene	1590	19.3	38.6	ug/kg dry	50	1540	ND	103	77-123%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 107 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>79-120 %</i>		<i>"</i>						

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1025 - EPA 5035A						Soil						
Blank (23C1025-BLK1)			Prepared: 03/27/23 08:14 Analyzed: 03/27/23 10:47									
<u>5035A/8260D</u>												
Acetone	ND	500	1000	ug/kg wet	50	---	---	---	---	---	---	---
Acrylonitrile	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	---
Benzene	ND	5.00	10.0	ug/kg wet	50	---	---	---	---	---	---	---
Bromobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	---
Bromochloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	---
Bromodichloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	---
Bromoform	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	---
Bromomethane	ND	500	500	ug/kg wet	50	---	---	---	---	---	---	---
2-Butanone (MEK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	---
n-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	---
sec-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	---
tert-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	---
Carbon disulfide	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	---
Carbon tetrachloride	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	---
Chlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	---
Chloroethane	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	---
Chloroform	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	---
Chloromethane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	---
2-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	---
4-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	---
Dibromochloromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	---
1,2-Dibromo-3-chloropropane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	---
1,2-Dibromoethane (EDB)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	---
Dibromomethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	---
1,2-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	---
1,3-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	---
1,4-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	---
Dichlorodifluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	---
1,1-Dichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	---
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	---
1,1-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	---
cis-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	---
trans-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	---

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1025 - EPA 5035A						Soil						
Blank (23C1025-BLK1)			Prepared: 03/27/23 08:14 Analyzed: 03/27/23 10:47									
1,2-Dichloropropane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	500	500	ug/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Methylene chloride	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	500	500	ug/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Styrene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 108 % Limits: 80-120 % Dilution: 1x

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ANALYTICAL REPORT

Apex Laboratories, LLC

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1025 - EPA 5035A						Soil						
Blank (23C1025-BLK1)						Prepared: 03/27/23 08:14 Analyzed: 03/27/23 10:47						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 97 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>79-120 %</i>		<i>"</i>						
LCS (23C1025-BS1)						Prepared: 03/27/23 08:14 Analyzed: 03/27/23 09:51						
5035A/8260D												
Acetone	1730	500	1000	ug/kg wet	50	2000	---	86	80-120%	---	---	
Acrylonitrile	934	50.0	100	ug/kg wet	50	1000	---	93	80-120%	---	---	
Benzene	1040	5.00	10.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Bromobenzene	976	12.5	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Bromochloromethane	979	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Bromodichloromethane	1110	25.0	50.0	ug/kg wet	50	1000	---	111	80-120%	---	---	
Bromoform	1290	50.0	100	ug/kg wet	50	1000	---	129	80-120%	---	---	Q-56
Bromomethane	1520	500	500	ug/kg wet	50	1000	---	152	80-120%	---	---	Q-56
2-Butanone (MEK)	1840	250	500	ug/kg wet	50	2000	---	92	80-120%	---	---	
n-Butylbenzene	920	25.0	50.0	ug/kg wet	50	1000	---	92	80-120%	---	---	
sec-Butylbenzene	950	25.0	50.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
tert-Butylbenzene	876	25.0	50.0	ug/kg wet	50	1000	---	88	80-120%	---	---	
Carbon disulfide	1020	250	500	ug/kg wet	50	1000	---	102	80-120%	---	---	
Carbon tetrachloride	1210	25.0	50.0	ug/kg wet	50	1000	---	121	80-120%	---	---	Q-56
Chlorobenzene	986	12.5	25.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
Chloroethane	1330	250	500	ug/kg wet	50	1000	---	133	80-120%	---	---	Q-56
Chloroform	1070	25.0	50.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
Chloromethane	942	125	250	ug/kg wet	50	1000	---	94	80-120%	---	---	
2-Chlorotoluene	960	25.0	50.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
4-Chlorotoluene	934	25.0	50.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
Dibromochloromethane	1160	50.0	100	ug/kg wet	50	1000	---	116	80-120%	---	---	
1,2-Dibromo-3-chloropropane	850	125	250	ug/kg wet	50	1000	---	85	80-120%	---	---	
1,2-Dibromoethane (EDB)	980	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Dibromomethane	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,2-Dichlorobenzene	975	12.5	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
1,3-Dichlorobenzene	984	12.5	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
1,4-Dichlorobenzene	978	12.5	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Dichlorodifluoromethane	1110	50.0	100	ug/kg wet	50	1000	---	111	80-120%	---	---	
1,1-Dichloroethane	1030	12.5	25.0	ug/kg wet	50	1000	---	103	80-120%	---	---	

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ANALYTICAL REPORT

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1025 - EPA 5035A						Soil						
LCS (23C1025-BS1)			Prepared: 03/27/23 08:14 Analyzed: 03/27/23 09:51									
1,2-Dichloroethane (EDC)	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
1,1-Dichloroethene	1140	12.5	25.0	ug/kg wet	50	1000	---	114	80-120%	---	---	
cis-1,2-Dichloroethene	1040	12.5	25.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
trans-1,2-Dichloroethene	1030	12.5	25.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
1,2-Dichloropropane	1030	12.5	25.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
1,3-Dichloropropane	976	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
2,2-Dichloropropane	1060	25.0	50.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
1,1-Dichloropropene	1060	25.0	50.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
cis-1,3-Dichloropropene	986	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
trans-1,3-Dichloropropene	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Ethylbenzene	944	12.5	25.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
Hexachlorobutadiene	1010	50.0	100	ug/kg wet	50	1000	---	101	80-120%	---	---	
2-Hexanone	1540	500	500	ug/kg wet	50	2000	---	77	80-120%	---	---	Q-55
Isopropylbenzene	952	25.0	50.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
4-Isopropyltoluene	931	25.0	50.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
Methylene chloride	1140	250	500	ug/kg wet	50	1000	---	114	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	1520	500	500	ug/kg wet	50	2000	---	76	80-120%	---	---	Q-55
Methyl tert-butyl ether (MTBE)	946	25.0	50.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
Naphthalene	901	50.0	100	ug/kg wet	50	1000	---	90	80-120%	---	---	
n-Propylbenzene	952	12.5	25.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
Styrene	872	25.0	50.0	ug/kg wet	50	1000	---	87	80-120%	---	---	
1,1,1,2-Tetrachloroethane	1110	12.5	25.0	ug/kg wet	50	1000	---	111	80-120%	---	---	
1,1,2,2-Tetrachloroethane	866	25.0	50.0	ug/kg wet	50	1000	---	87	80-120%	---	---	
Tetrachloroethene (PCE)	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
Toluene	950	25.0	50.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
1,2,3-Trichlorobenzene	934	125	250	ug/kg wet	50	1000	---	93	80-120%	---	---	
1,2,4-Trichlorobenzene	946	125	250	ug/kg wet	50	1000	---	95	80-120%	---	---	
1,1,1-Trichloroethane	1080	12.5	25.0	ug/kg wet	50	1000	---	108	80-120%	---	---	
1,1,2-Trichloroethane	995	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Trichloroethene (TCE)	1170	12.5	25.0	ug/kg wet	50	1000	---	117	80-120%	---	---	
Trichlorofluoromethane	1700	50.0	100	ug/kg wet	50	1000	---	170	80-120%	---	---	Q-56
1,2,3-Trichloropropane	940	25.0	50.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
1,2,4-Trimethylbenzene	930	25.0	50.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
1,3,5-Trimethylbenzene	940	25.0	50.0	ug/kg wet	50	1000	---	94	80-120%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1025 - EPA 5035A						Soil						
LCS (23C1025-BS1)			Prepared: 03/27/23 08:14 Analyzed: 03/27/23 09:51									
Vinyl chloride	1140	12.5	25.0	ug/kg wet	50	1000	---	114	80-120%	---	---	
m,p-Xylene	1920	25.0	50.0	ug/kg wet	50	2000	---	96	80-120%	---	---	
o-Xylene	924	12.5	25.0	ug/kg wet	50	1000	---	92	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 107 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (23C1025-DUP1)						Prepared: 03/24/23 09:05 Analyzed: 03/27/23 12:30						
QC Source Sample: Non-SDG (A3C0889-01)												
Acetone	ND	612	1220	ug/kg dry	50	---	ND	---	---	---	30%	
Acrylonitrile	ND	61.2	122	ug/kg dry	50	---	ND	---	---	---	30%	
Benzene	ND	6.12	12.2	ug/kg dry	50	---	ND	---	---	---	30%	
Bromobenzene	ND	15.3	30.6	ug/kg dry	50	---	ND	---	---	---	30%	
Bromochloromethane	ND	30.6	61.2	ug/kg dry	50	---	ND	---	---	---	30%	
Bromodichloromethane	ND	30.6	61.2	ug/kg dry	50	---	ND	---	---	---	30%	
Bromoform	ND	61.2	122	ug/kg dry	50	---	ND	---	---	---	30%	
Bromomethane	ND	612	612	ug/kg dry	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	306	612	ug/kg dry	50	---	ND	---	---	---	30%	
n-Butylbenzene	ND	30.6	61.2	ug/kg dry	50	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	30.6	61.2	ug/kg dry	50	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	30.6	61.2	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon disulfide	ND	306	612	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	30.6	61.2	ug/kg dry	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	15.3	30.6	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroethane	ND	306	612	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroform	ND	30.6	61.2	ug/kg dry	50	---	ND	---	---	---	30%	
Chloromethane	ND	153	306	ug/kg dry	50	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	30.6	61.2	ug/kg dry	50	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	30.6	61.2	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromochloromethane	ND	61.2	122	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	153	306	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	30.6	61.2	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromomethane	ND	30.6	61.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	15.3	30.6	ug/kg dry	50	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
							Soil					
Batch 23C1025 - EPA 5035A												
Duplicate (23C1025-DUP1)							Prepared: 03/24/23 09:05 Analyzed: 03/27/23 12:30					
QC Source Sample: Non-SDG (A3C0889-01)												
1,3-Dichlorobenzene	ND	15.3	30.6	ug/kg dry	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	15.3	30.6	ug/kg dry	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	61.2	122	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	15.3	30.6	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	15.3	30.6	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	15.3	30.6	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	15.3	30.6	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	15.3	30.6	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	15.3	30.6	ug/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	30.6	61.2	ug/kg dry	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	30.6	61.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	30.6	61.2	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	30.6	61.2	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	30.6	61.2	ug/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	15.3	30.6	ug/kg dry	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	61.2	122	ug/kg dry	50	---	ND	---	---	---	30%	
2-Hexanone	ND	61.2	61.2	ug/kg dry	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	30.6	61.2	ug/kg dry	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	30.6	61.2	ug/kg dry	50	---	ND	---	---	---	30%	
Methylene chloride	ND	30.6	61.2	ug/kg dry	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	61.2	61.2	ug/kg dry	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	30.6	61.2	ug/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	61.2	122	ug/kg dry	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	15.3	30.6	ug/kg dry	50	---	ND	---	---	---	30%	
Styrene	ND	30.6	61.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	15.3	30.6	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	30.6	61.2	ug/kg dry	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	15.3	30.6	ug/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	30.6	61.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	15.3	30.6	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	15.3	30.6	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	15.3	30.6	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	15.3	30.6	ug/kg dry	50	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

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6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1025 - EPA 5035A						Soil						
Duplicate (23C1025-DUP1)			Prepared: 03/24/23 09:05 Analyzed: 03/27/23 12:30									
QC Source Sample: Non-SDG (A3C0889-01)												
Trichloroethene (TCE)	ND	15.3	30.6	ug/kg dry	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	61.2	122	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	30.6	61.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	30.6	61.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	30.6	61.2	ug/kg dry	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	15.3	30.6	ug/kg dry	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	30.6	61.2	ug/kg dry	50	---	ND	---	---	---	30%	
o-Xylene	ND	15.3	30.6	ug/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 107 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>94 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (23C1025-DUP2)			Prepared: 03/22/23 10:45 Analyzed: 03/27/23 14:12									
QC Source Sample: Non-SDG (A3C0905-01)												
Acetone	ND	555	1110	ug/kg dry	50	---	ND	---	---	---	30%	
Acrylonitrile	ND	55.5	111	ug/kg dry	50	---	ND	---	---	---	30%	
Benzene	ND	5.55	11.1	ug/kg dry	50	---	ND	---	---	---	30%	
Bromobenzene	ND	13.9	27.8	ug/kg dry	50	---	ND	---	---	---	30%	
Bromochloromethane	ND	27.8	55.5	ug/kg dry	50	---	ND	---	---	---	30%	
Bromodichloromethane	ND	27.8	55.5	ug/kg dry	50	---	ND	---	---	---	30%	
Bromoform	ND	55.5	111	ug/kg dry	50	---	ND	---	---	---	30%	
Bromomethane	ND	555	555	ug/kg dry	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	278	555	ug/kg dry	50	---	ND	---	---	---	30%	
n-Butylbenzene	ND	27.8	55.5	ug/kg dry	50	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	27.8	55.5	ug/kg dry	50	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	27.8	55.5	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon disulfide	ND	278	555	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	27.8	55.5	ug/kg dry	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	13.9	27.8	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroethane	ND	278	555	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroform	ND	27.8	55.5	ug/kg dry	50	---	ND	---	---	---	30%	
Chloromethane	ND	139	278	ug/kg dry	50	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	27.8	55.5	ug/kg dry	50	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1025 - EPA 5035A						Soil						
Duplicate (23C1025-DUP2)			Prepared: 03/22/23 10:45 Analyzed: 03/27/23 14:12									
QC Source Sample: Non-SDG (A3C0905-01)												
4-Chlorotoluene	ND	27.8	55.5	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromochloromethane	ND	55.5	111	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	139	278	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	27.8	55.5	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromomethane	ND	27.8	55.5	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	13.9	27.8	ug/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	13.9	27.8	ug/kg dry	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	13.9	27.8	ug/kg dry	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	55.5	111	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	13.9	27.8	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	13.9	27.8	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	13.9	27.8	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	13.9	27.8	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	13.9	27.8	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	13.9	27.8	ug/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	27.8	55.5	ug/kg dry	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	27.8	55.5	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	27.8	55.5	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	27.8	55.5	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	27.8	55.5	ug/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	13.9	27.8	ug/kg dry	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	55.5	111	ug/kg dry	50	---	ND	---	---	---	30%	
2-Hexanone	ND	55.5	55.5	ug/kg dry	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	27.8	55.5	ug/kg dry	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	27.8	55.5	ug/kg dry	50	---	ND	---	---	---	30%	
Methylene chloride	ND	27.8	55.5	ug/kg dry	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	55.5	55.5	ug/kg dry	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	27.8	55.5	ug/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	55.5	111	ug/kg dry	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	13.9	27.8	ug/kg dry	50	---	ND	---	---	---	30%	
Styrene	ND	27.8	55.5	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	13.9	27.8	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	27.8	55.5	ug/kg dry	50	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1025 - EPA 5035A						Soil						
Duplicate (23C1025-DUP2)			Prepared: 03/22/23 10:45 Analyzed: 03/27/23 14:12									
QC Source Sample: Non-SDG (A3C0905-01)												
Tetrachloroethene (PCE)	ND	13.9	27.8	ug/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	27.8	55.5	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	139	278	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	139	278	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	13.9	27.8	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	13.9	27.8	ug/kg dry	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	13.9	27.8	ug/kg dry	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	55.5	111	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	27.8	55.5	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	27.8	55.5	ug/kg dry	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	27.8	55.5	ug/kg dry	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	13.9	27.8	ug/kg dry	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	27.8	55.5	ug/kg dry	50	---	ND	---	---	---	30%	
o-Xylene	ND	13.9	27.8	ug/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 106 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>79-120 %</i>		<i>"</i>						

Matrix Spike (23C1025-MS1)			Prepared: 03/22/23 10:55 Analyzed: 03/27/23 18:01									
QC Source Sample: Non-SDG (A3C0905-02)												
5035A/8260D												
Acetone	2970	627	1250	ug/kg dry	50	2510	ND	89	36-164%	---	---	
Acrylonitrile	1230	62.7	125	ug/kg dry	50	1250	ND	98	65-134%	---	---	
Benzene	1410	6.27	12.5	ug/kg dry	50	1250	8.15	112	77-121%	---	---	
Bromobenzene	1270	15.7	31.3	ug/kg dry	50	1250	ND	101	78-121%	---	---	
Bromochloromethane	1340	31.3	62.7	ug/kg dry	50	1250	ND	107	78-125%	---	---	
Bromodichloromethane	1450	31.3	62.7	ug/kg dry	50	1250	ND	116	75-127%	---	---	
Bromoform	1590	62.7	125	ug/kg dry	50	1250	ND	127	67-132%	---	---	Q-54h
Bromomethane	2270	627	627	ug/kg dry	50	1250	ND	181	53-143%	---	---	Q-54d
2-Butanone (MEK)	2590	313	627	ug/kg dry	50	2510	ND	103	51-148%	---	---	
n-Butylbenzene	1220	31.3	62.7	ug/kg dry	50	1250	ND	97	70-128%	---	---	
sec-Butylbenzene	1260	31.3	62.7	ug/kg dry	50	1250	ND	100	73-126%	---	---	
tert-Butylbenzene	1120	31.3	62.7	ug/kg dry	50	1250	ND	89	73-125%	---	---	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1025 - EPA 5035A						Soil						
Matrix Spike (23C1025-MS1)			Prepared: 03/22/23 10:55 Analyzed: 03/27/23 18:01									
QC Source Sample: Non-SDG (A3C0905-02)												
Carbon disulfide	1260	313	627	ug/kg dry	50	1250	ND	101	63-132%	---	---	
Carbon tetrachloride	1630	31.3	62.7	ug/kg dry	50	1250	ND	130	70-135%	---	---	Q-54
Chlorobenzene	1270	15.7	31.3	ug/kg dry	50	1250	ND	102	79-120%	---	---	
Chloroethane	2390	313	627	ug/kg dry	50	1250	ND	191	59-139%	---	---	Q-54a
Chloroform	1420	31.3	62.7	ug/kg dry	50	1250	ND	113	78-123%	---	---	
Chloromethane	1290	157	313	ug/kg dry	50	1250	ND	103	50-136%	---	---	
2-Chlorotoluene	1250	31.3	62.7	ug/kg dry	50	1250	ND	99	75-122%	---	---	
4-Chlorotoluene	1190	31.3	62.7	ug/kg dry	50	1250	ND	95	72-124%	---	---	
Dibromochloromethane	1450	62.7	125	ug/kg dry	50	1250	ND	116	74-126%	---	---	
1,2-Dibromo-3-chloropropane	1100	157	313	ug/kg dry	50	1250	ND	88	61-132%	---	---	
1,2-Dibromoethane (EDB)	1250	31.3	62.7	ug/kg dry	50	1250	ND	99	78-122%	---	---	
Dibromomethane	1350	31.3	62.7	ug/kg dry	50	1250	ND	108	78-125%	---	---	
1,2-Dichlorobenzene	1230	15.7	31.3	ug/kg dry	50	1250	ND	98	78-121%	---	---	
1,3-Dichlorobenzene	1250	15.7	31.3	ug/kg dry	50	1250	ND	100	77-121%	---	---	
1,4-Dichlorobenzene	1240	15.7	31.3	ug/kg dry	50	1250	ND	99	75-120%	---	---	
Dichlorodifluoromethane	1580	62.7	125	ug/kg dry	50	1250	ND	126	29-149%	---	---	
1,1-Dichloroethane	1410	15.7	31.3	ug/kg dry	50	1250	ND	112	76-125%	---	---	
1,2-Dichloroethane (EDC)	1350	15.7	31.3	ug/kg dry	50	1250	ND	108	73-128%	---	---	
1,1-Dichloroethene	1480	15.7	31.3	ug/kg dry	50	1250	ND	118	70-131%	---	---	
cis-1,2-Dichloroethene	1380	15.7	31.3	ug/kg dry	50	1250	ND	110	77-123%	---	---	
trans-1,2-Dichloroethene	1380	15.7	31.3	ug/kg dry	50	1250	ND	110	74-125%	---	---	
1,2-Dichloropropane	1370	15.7	31.3	ug/kg dry	50	1250	ND	109	76-123%	---	---	
1,3-Dichloropropane	1260	31.3	62.7	ug/kg dry	50	1250	ND	101	77-121%	---	---	
2,2-Dichloropropane	1320	31.3	62.7	ug/kg dry	50	1250	ND	105	67-133%	---	---	
1,1-Dichloropropene	1450	31.3	62.7	ug/kg dry	50	1250	ND	116	76-125%	---	---	
cis-1,3-Dichloropropene	1230	31.3	62.7	ug/kg dry	50	1250	ND	98	74-126%	---	---	
trans-1,3-Dichloropropene	1270	31.3	62.7	ug/kg dry	50	1250	ND	101	71-130%	---	---	
Ethylbenzene	1260	15.7	31.3	ug/kg dry	50	1250	25.7	99	76-122%	---	---	
Hexachlorobutadiene	1250	62.7	125	ug/kg dry	50	1250	ND	100	61-135%	---	---	
2-Hexanone	1960	627	627	ug/kg dry	50	2510	ND	78	53-145%	---	---	Q-54i
Isopropylbenzene	1240	31.3	62.7	ug/kg dry	50	1250	ND	99	68-134%	---	---	
4-Isopropyltoluene	1210	31.3	62.7	ug/kg dry	50	1250	ND	97	73-127%	---	---	
Methylene chloride	1350	313	627	ug/kg dry	50	1250	ND	108	70-128%	---	---	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1025 - EPA 5035A						Soil						
Matrix Spike (23C1025-MS1)			Prepared: 03/22/23 10:55 Analyzed: 03/27/23 18:01									
QC Source Sample: Non-SDG (A3C0905-02)												
4-Methyl-2-pentanone (MiBK)	2030	627	627	ug/kg dry	50	2510	ND	81	65-135%	---	---	Q-54j
Methyl tert-butyl ether (MTBE)	1200	31.3	62.7	ug/kg dry	50	1250	ND	96	73-125%	---	---	
Naphthalene	1270	62.7	125	ug/kg dry	50	1250	73.9	95	62-129%	---	---	
n-Propylbenzene	1260	15.7	31.3	ug/kg dry	50	1250	ND	101	73-125%	---	---	
Styrene	1110	31.3	62.7	ug/kg dry	50	1250	ND	89	76-124%	---	---	
1,1,1,2-Tetrachloroethane	1430	15.7	31.3	ug/kg dry	50	1250	ND	114	78-125%	---	---	
1,1,2,2-Tetrachloroethane	1080	31.3	62.7	ug/kg dry	50	1250	ND	86	70-124%	---	---	
Tetrachloroethene (PCE)	1360	15.7	31.3	ug/kg dry	50	1250	ND	108	73-128%	---	---	
Toluene	1310	31.3	62.7	ug/kg dry	50	1250	90.2	97	77-121%	---	---	
1,2,3-Trichlorobenzene	1190	157	313	ug/kg dry	50	1250	ND	95	66-130%	---	---	
1,2,4-Trichlorobenzene	1200	157	313	ug/kg dry	50	1250	ND	95	67-129%	---	---	
1,1,1-Trichloroethane	1460	15.7	31.3	ug/kg dry	50	1250	ND	116	73-130%	---	---	
1,1,2-Trichloroethane	1290	15.7	31.3	ug/kg dry	50	1250	ND	103	78-121%	---	---	
Trichloroethene (TCE)	1560	15.7	31.3	ug/kg dry	50	1250	ND	124	77-123%	---	---	Q-01
Trichlorofluoromethane	4570	62.7	125	ug/kg dry	50	1250	ND	365	62-140%	---	---	Q-54g
1,2,3-Trichloropropane	1190	31.3	62.7	ug/kg dry	50	1250	ND	95	73-125%	---	---	
1,2,4-Trimethylbenzene	1280	31.3	62.7	ug/kg dry	50	1250	57.0	97	75-123%	---	---	
1,3,5-Trimethylbenzene	1260	31.3	62.7	ug/kg dry	50	1250	ND	100	73-124%	---	---	
Vinyl chloride	1610	15.7	31.3	ug/kg dry	50	1250	ND	128	56-135%	---	---	
m,p-Xylene	2610	31.3	62.7	ug/kg dry	50	2510	97.8	100	77-124%	---	---	
o-Xylene	1220	15.7	31.3	ug/kg dry	50	1250	38.9	94	77-123%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 108 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>79-120 %</i>		<i>"</i>						

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0153 - EPA 1311/5030B TCLP Volatiles						Water						
Blank (23D0153-BLK1)						Prepared: 04/05/23 10:36 Analyzed: 04/05/23 12:46						TCLPa
<u>1311/8260D</u>												
Benzene	ND	6.25	12.5	ug/L	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/L	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>110 %</i>		<i>80-120 %</i>		<i>"</i>						
LCS (23D0153-BS1)						Prepared: 04/05/23 10:36 Analyzed: 04/05/23 11:52						TCLPa
<u>1311/8260D</u>												
Benzene	1030	6.25	12.5	ug/L	50	1000	---	103	80-120%	---	---	
2-Butanone (MEK)	2050	250	500	ug/L	50	2000	---	103	80-120%	---	---	
Carbon tetrachloride	1500	25.0	50.0	ug/L	50	1000	---	150	80-120%	---	---	Q-56
Chlorobenzene	964	12.5	25.0	ug/L	50	1000	---	96	80-120%	---	---	
Chloroform	1040	25.0	50.0	ug/L	50	1000	---	104	80-120%	---	---	
1,4-Dichlorobenzene	934	12.5	25.0	ug/L	50	1000	---	93	80-120%	---	---	
1,1-Dichloroethene	993	12.5	25.0	ug/L	50	1000	---	99	80-120%	---	---	
1,2-Dichloroethane (EDC)	1030	12.5	25.0	ug/L	50	1000	---	103	80-120%	---	---	
Tetrachloroethene (PCE)	966	12.5	25.0	ug/L	50	1000	---	97	80-120%	---	---	
Trichloroethene (TCE)	1000	12.5	25.0	ug/L	50	1000	---	100	80-120%	---	---	
Vinyl chloride	961	12.5	25.0	ug/L	50	1000	---	96	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>"</i>						
Duplicate (23D0153-DUP1)						Prepared: 04/05/23 10:36 Analyzed: 04/05/23 13:40						CONT

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0153 - EPA 1311/5030B TCLP Volatiles						Water						
Duplicate (23D0153-DUP1)						Prepared: 04/05/23 10:36 Analyzed: 04/05/23 13:40						CONT
QC Source Sample: FC-032023-2081 (A3C0842-01)												
1311/8260D												
Benzene	ND	6.25	12.5	ug/L	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	250	500	ug/L	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Chloroform	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>108 %</i>		<i>80-120 %</i>		<i>"</i>						

Matrix Spike (23D0153-MS1)						Prepared: 04/05/23 10:36 Analyzed: 04/05/23 14:35						
QC Source Sample: Non-SDG (A3C0844-01)												
1311/8260D												
Benzene	1000	6.25	12.5	ug/L	50	1000	ND	100	79-120%	---	---	
2-Butanone (MEK)	1990	250	500	ug/L	50	2000	ND	99	56-143%	---	---	
Carbon tetrachloride	1440	25.0	50.0	ug/L	50	1000	ND	144	72-136%	---	---	Q-54c
Chlorobenzene	940	12.5	25.0	ug/L	50	1000	ND	94	80-120%	---	---	
Chloroform	1100	25.0	50.0	ug/L	50	1000	104	100	79-124%	---	---	
1,4-Dichlorobenzene	905	12.5	25.0	ug/L	50	1000	ND	90	79-120%	---	---	
1,1-Dichloroethene	964	12.5	25.0	ug/L	50	1000	ND	96	71-131%	---	---	
1,2-Dichloroethane (EDC)	988	12.5	25.0	ug/L	50	1000	ND	99	73-128%	---	---	
Tetrachloroethene (PCE)	934	12.5	25.0	ug/L	50	1000	ND	93	74-129%	---	---	
Trichloroethene (TCE)	976	12.5	25.0	ug/L	50	1000	ND	98	79-123%	---	---	
Vinyl chloride	941	12.5	25.0	ug/L	50	1000	ND	94	58-137%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0153 - EPA 1311/5030B TCLP Volatiles						Water						
Matrix Spike (23D0153-MS1)						Prepared: 04/05/23 10:36 Analyzed: 04/05/23 14:35						
QC Source Sample: Non-SDG (A3C0844-01)												
Surr: 4-Bromofluorobenzene (Surr)		Recovery: 96 %		Limits: 80-120 %		Dilution: 1x						

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1019 - EPA 3546						Solid						
Blank (23C1019-BLK1)			Prepared: 03/27/23 07:35 Analyzed: 03/27/23 16:25									
<u>EPA 8270E</u>												
Acenaphthene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	2.08	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	B-02, J
Benzo(k)fluoranthene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Chrysene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Fluoranthene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Fluorene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
Naphthalene	8.73	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	B
Phenanthrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Pyrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Carbazole	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Dibenzofuran	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
2-Chlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
2-Methylphenol	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Nitrophenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
4-Nitrophenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Phenol	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1019 - EPA 3546						Solid						
Blank (23C1019-BLK1)			Prepared: 03/27/23 07:35 Analyzed: 03/27/23 16:25									
2,3,5,6-Tetrachlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	20.0	40.0	ug/kg wet	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Diethylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Dimethylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2,2'-Oxybis(1-Chloropropane)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Hexachloroethane	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Aniline	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
4-Chloroaniline	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
3-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
4-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
Nitrobenzene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Benzoic acid	ND	167	333	ug/kg wet	1	---	---	---	---	---	---	
Benzyl alcohol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Isophorone	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1019 - EPA 3546						Solid						
Blank (23C1019-BLK1)			Prepared: 03/27/23 07:35 Analyzed: 03/27/23 16:25									
Azobenzene (1,2-DPH)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Ethylhexyl) adipate	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	Q-52
1,2-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
Pyridine	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 92 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 1x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>94 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>91 %</i>		<i>33-122 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>105 %</i>		<i>54-127 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>93 %</i>		<i>35-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>94 %</i>		<i>39-132 %</i>		<i>"</i>						
												Q-41
LCS (23C1019-BS1)			Prepared: 03/27/23 07:35 Analyzed: 03/27/23 17:00									Q-18
EPA 8270E												
Acenaphthene	573	5.32	10.7	ug/kg wet	4	533	---	107	40-123%	---	---	
Acenaphthylene	620	5.32	10.7	ug/kg wet	4	533	---	116	32-132%	---	---	
Anthracene	632	5.32	10.7	ug/kg wet	4	533	---	118	47-123%	---	---	
Benz(a)anthracene	634	5.32	10.7	ug/kg wet	4	533	---	119	49-126%	---	---	
Benzo(a)pyrene	622	8.00	16.0	ug/kg wet	4	533	---	117	45-129%	---	---	
Benzo(b)fluoranthene	638	8.00	16.0	ug/kg wet	4	533	---	120	45-132%	---	---	B-02
Benzo(k)fluoranthene	637	8.00	16.0	ug/kg wet	4	533	---	119	47-132%	---	---	
Benzo(g,h,i)perylene	633	5.32	10.7	ug/kg wet	4	533	---	119	43-134%	---	---	
Chrysene	612	5.32	10.7	ug/kg wet	4	533	---	115	50-124%	---	---	
Dibenz(a,h)anthracene	615	5.32	10.7	ug/kg wet	4	533	---	115	45-134%	---	---	
Fluoranthene	627	5.32	10.7	ug/kg wet	4	533	---	118	50-127%	---	---	
Fluorene	608	5.32	10.7	ug/kg wet	4	533	---	114	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	617	5.32	10.7	ug/kg wet	4	533	---	116	45-133%	---	---	
1-Methylnaphthalene	572	10.7	21.3	ug/kg wet	4	533	---	107	40-120%	---	---	
2-Methylnaphthalene	600	10.7	21.3	ug/kg wet	4	533	---	112	38-122%	---	---	

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Darwin Thomas, Business Development Director



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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1019 - EPA 3546						Solid						
LCS (23C1019-BS1)						Prepared: 03/27/23 07:35 Analyzed: 03/27/23 17:00						Q-18
Naphthalene	563	10.7	21.3	ug/kg wet	4	533	---	106	35-123%	---	---	B
Phenanthrene	588	5.32	10.7	ug/kg wet	4	533	---	110	50-121%	---	---	
Pyrene	624	5.32	10.7	ug/kg wet	4	533	---	117	47-127%	---	---	
Carbazole	623	8.00	16.0	ug/kg wet	4	533	---	117	50-123%	---	---	
Dibenzofuran	601	5.32	10.7	ug/kg wet	4	533	---	113	44-120%	---	---	
2-Chlorophenol	574	26.7	53.2	ug/kg wet	4	533	---	108	34-121%	---	---	
4-Chloro-3-methylphenol	614	53.2	107	ug/kg wet	4	533	---	115	45-122%	---	---	
2,4-Dichlorophenol	680	26.7	53.2	ug/kg wet	4	533	---	127	40-122%	---	---	Q-29, Q-41
2,4-Dimethylphenol	644	26.7	53.2	ug/kg wet	4	533	---	121	30-127%	---	---	
2,4-Dinitrophenol	778	133	267	ug/kg wet	4	533	---	146	10-137%	---	---	Q-29, Q-41
4,6-Dinitro-2-methylphenol	765	133	267	ug/kg wet	4	533	---	143	29-132%	---	---	Q-29
2-Methylphenol	559	13.3	26.7	ug/kg wet	4	533	---	105	32-122%	---	---	
3+4-Methylphenol(s)	573	13.3	26.7	ug/kg wet	4	533	---	107	34-120%	---	---	
2-Nitrophenol	668	53.2	107	ug/kg wet	4	533	---	125	36-123%	---	---	Q-29, Q-41
4-Nitrophenol	656	53.2	107	ug/kg wet	4	533	---	123	30-132%	---	---	
Pentachlorophenol (PCP)	500	53.2	107	ug/kg wet	4	533	---	94	25-133%	---	---	
Phenol	597	10.7	21.3	ug/kg wet	4	533	---	112	34-121%	---	---	
2,3,4,6-Tetrachlorophenol	651	26.7	53.2	ug/kg wet	4	533	---	122	44-125%	---	---	
2,3,5,6-Tetrachlorophenol	633	26.7	53.2	ug/kg wet	4	533	---	119	40-120%	---	---	
2,4,5-Trichlorophenol	663	26.7	53.2	ug/kg wet	4	533	---	124	41-124%	---	---	
2,4,6-Trichlorophenol	638	26.7	53.2	ug/kg wet	4	533	---	120	39-126%	---	---	
Bis(2-ethylhexyl)phthalate	587	80.0	160	ug/kg wet	4	533	---	110	51-133%	---	---	
Butyl benzyl phthalate	607	53.2	107	ug/kg wet	4	533	---	114	48-132%	---	---	
Diethylphthalate	615	53.2	107	ug/kg wet	4	533	---	115	50-124%	---	---	
Dimethylphthalate	624	53.2	107	ug/kg wet	4	533	---	117	48-124%	---	---	
Di-n-butylphthalate	652	53.2	107	ug/kg wet	4	533	---	122	51-128%	---	---	
Di-n-octyl phthalate	639	53.2	107	ug/kg wet	4	533	---	120	45-140%	---	---	
N-Nitrosodimethylamine	470	13.3	26.7	ug/kg wet	4	533	---	88	23-120%	---	---	
N-Nitroso-di-n-propylamine	541	13.3	26.7	ug/kg wet	4	533	---	102	36-120%	---	---	
N-Nitrosodiphenylamine	593	13.3	26.7	ug/kg wet	4	533	---	111	38-127%	---	---	
Bis(2-Chloroethoxy) methane	558	13.3	26.7	ug/kg wet	4	533	---	105	36-121%	---	---	
Bis(2-Chloroethyl) ether	519	13.3	26.7	ug/kg wet	4	533	---	97	31-120%	---	---	
2,2'-Oxybis(1-Chloropropane)	463	13.3	26.7	ug/kg wet	4	533	---	87	39-120%	---	---	
Hexachlorobenzene	638	5.32	10.7	ug/kg wet	4	533	---	120	45-122%	---	---	

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Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23C1019 - EPA 3546						Solid							
LCS (23C1019-BS1)			Prepared: 03/27/23 07:35 Analyzed: 03/27/23 17:00						Q-18				
Hexachlorobutadiene	585	13.3	26.7	ug/kg wet	4	533	---	110	32-123%	---	---		
Hexachlorocyclopentadiene	665	26.7	53.2	ug/kg wet	4	533	---	125	10-140%	---	---		
Hexachloroethane	523	13.3	26.7	ug/kg wet	4	533	---	98	28-120%	---	---		
2-Chloronaphthalene	598	5.32	10.7	ug/kg wet	4	533	---	112	41-120%	---	---		
1,2,4-Trichlorobenzene	601	13.3	26.7	ug/kg wet	4	533	---	113	34-120%	---	---		
4-Bromophenyl phenyl ether	650	13.3	26.7	ug/kg wet	4	533	---	122	46-124%	---	---		
4-Chlorophenyl phenyl ether	628	13.3	26.7	ug/kg wet	4	533	---	118	45-121%	---	---		
Aniline	404	26.7	53.2	ug/kg wet	4	533	---	76	10-120%	---	---	Q-31	
4-Chloroaniline	472	13.3	26.7	ug/kg wet	4	533	---	89	17-120%	---	---		
2-Nitroaniline	607	107	213	ug/kg wet	4	533	---	114	44-127%	---	---		
3-Nitroaniline	622	107	213	ug/kg wet	4	533	---	117	33-120%	---	---		
4-Nitroaniline	581	107	213	ug/kg wet	4	533	---	109	51-125%	---	---		
Nitrobenzene	534	53.2	107	ug/kg wet	4	533	---	100	34-122%	---	---		
2,4-Dinitrotoluene	652	53.2	107	ug/kg wet	4	533	---	122	48-126%	---	---		
2,6-Dinitrotoluene	613	53.2	107	ug/kg wet	4	533	---	115	46-124%	---	---		
Benzoic acid	1380	668	1330	ug/kg wet	4	1070	---	129	10-140%	---	---		
Benzyl alcohol	527	26.7	53.2	ug/kg wet	4	533	---	99	29-122%	---	---		
Isophorone	547	13.3	26.7	ug/kg wet	4	533	---	103	30-122%	---	---		
Azobenzene (1,2-DPH)	508	13.3	26.7	ug/kg wet	4	533	---	95	39-125%	---	---		
Bis(2-Ethylhexyl) adipate	604	133	267	ug/kg wet	4	533	---	113	61-121%	---	---		
3,3'-Dichlorobenzidine	2190	107	213	ug/kg wet	4	1070	---	205	22-121%	---	---	Q-29, Q-52	
1,2-Dinitrobenzene	640	133	267	ug/kg wet	4	533	---	120	44-120%	---	---		
1,3-Dinitrobenzene	640	133	267	ug/kg wet	4	533	---	120	43-127%	---	---		
1,4-Dinitrobenzene	697	133	267	ug/kg wet	4	533	---	131	37-132%	---	---		
Pyridine	352	26.7	53.2	ug/kg wet	4	533	---	66	10-120%	---	---		
1,2-Dichlorobenzene	525	13.3	26.7	ug/kg wet	4	533	---	98	33-120%	---	---		
1,3-Dichlorobenzene	530	13.3	26.7	ug/kg wet	4	533	---	99	30-120%	---	---		
1,4-Dichlorobenzene	522	13.3	26.7	ug/kg wet	4	533	---	98	31-120%	---	---		
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 96 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 4x</i>							
<i>2-Fluorobiphenyl (Surr)</i>		<i>103 %</i>		<i>44-120 %</i>		<i>"</i>							
<i>Phenol-d6 (Surr)</i>		<i>96 %</i>		<i>33-122 %</i>		<i>"</i>							
<i>p-Terphenyl-d14 (Surr)</i>		<i>119 %</i>		<i>54-127 %</i>		<i>"</i>							
<i>2-Fluorophenol (Surr)</i>		<i>98 %</i>		<i>35-120 %</i>		<i>"</i>							
<i>2,4,6-Tribromophenol (Surr)</i>		<i>117 %</i>		<i>39-132 %</i>		<i>"</i>							
Q-41													

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1019 - EPA 3546							Solid					
Duplicate (23C1019-DUP1)			Prepared: 03/27/23 07:35 Analyzed: 03/27/23 18:09									
QC Source Sample: Non-SDG (A3C0674-01)												
Acenaphthene	49000	1880	3780	ug/kg dry	1000	---	42700	---	---	14	30%	
Acenaphthylene	ND	4960	4960	ug/kg dry	1000	---	ND	---	---	---	30%	R-02
Anthracene	33600	1880	3780	ug/kg dry	1000	---	28600	---	---	16	30%	
Benz(a)anthracene	20800	1880	3780	ug/kg dry	1000	---	18000	---	---	15	30%	
Benzo(a)pyrene	26800	2830	5660	ug/kg dry	1000	---	24100	---	---	11	30%	
Benzo(b)fluoranthene	19400	2830	5660	ug/kg dry	1000	---	17500	---	---	10	30%	B-02
Benzo(k)fluoranthene	8610	2830	5660	ug/kg dry	1000	---	7970	---	---	8	30%	M-05
Benzo(g,h,i)perylene	15400	1880	3780	ug/kg dry	1000	---	14200	---	---	8	30%	
Chrysene	25600	1880	3780	ug/kg dry	1000	---	22200	---	---	14	30%	
Dibenz(a,h)anthracene	ND	1880	3780	ug/kg dry	1000	---	ND	---	---	---	30%	
Fluoranthene	89300	1880	3780	ug/kg dry	1000	---	77800	---	---	14	30%	
Fluorene	33900	1880	3780	ug/kg dry	1000	---	29500	---	---	14	30%	
Indeno(1,2,3-cd)pyrene	13500	1880	3780	ug/kg dry	1000	---	12400	---	---	8	30%	
1-Methylnaphthalene	44300	3780	7550	ug/kg dry	1000	---	36700	---	---	19	30%	
2-Methylnaphthalene	64900	3780	7550	ug/kg dry	1000	---	53600	---	---	19	30%	
Naphthalene	54900	3780	7550	ug/kg dry	1000	---	47700	---	---	14	30%	B
Phenanthrene	186000	1880	3780	ug/kg dry	1000	---	164000	---	---	12	30%	
Pyrene	109000	1880	3780	ug/kg dry	1000	---	96400	---	---	12	30%	J
Carbazole	3530	2830	5660	ug/kg dry	1000	---	3390	---	---	4	30%	
Dibenzofuran	6020	1880	3780	ug/kg dry	1000	---	5110	---	---	16	30%	
2-Chlorophenol	ND	9440	18800	ug/kg dry	1000	---	ND	---	---	---	30%	
4-Chloro-3-methylphenol	ND	18800	37800	ug/kg dry	1000	---	ND	---	---	---	30%	
2,4-Dichlorophenol	ND	9440	18800	ug/kg dry	1000	---	ND	---	---	---	30%	
2,4-Dimethylphenol	ND	9440	18800	ug/kg dry	1000	---	ND	---	---	---	30%	
2,4-Dinitrophenol	ND	47200	94400	ug/kg dry	1000	---	ND	---	---	---	30%	
4,6-Dinitro-2-methylphenol	ND	47200	94400	ug/kg dry	1000	---	ND	---	---	---	30%	
2-Methylphenol	ND	4720	9440	ug/kg dry	1000	---	ND	---	---	---	30%	
3+4-Methylphenol(s)	ND	4720	9440	ug/kg dry	1000	---	ND	---	---	---	30%	
2-Nitrophenol	ND	18800	37800	ug/kg dry	1000	---	ND	---	---	---	30%	
4-Nitrophenol	ND	18800	37800	ug/kg dry	1000	---	ND	---	---	---	30%	
Pentachlorophenol (PCP)	ND	18800	37800	ug/kg dry	1000	---	ND	---	---	---	30%	
Phenol	ND	3780	7550	ug/kg dry	1000	---	ND	---	---	---	30%	

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1019 - EPA 3546						Solid						
Duplicate (23C1019-DUP1)			Prepared: 03/27/23 07:35 Analyzed: 03/27/23 18:09									
QC Source Sample: Non-SDG (A3C0674-01)												
2,3,4,6-Tetrachlorophenol	ND	9440	18800	ug/kg dry	1000	---	ND	---	---	---	30%	
2,3,5,6-Tetrachlorophenol	ND	9440	18800	ug/kg dry	1000	---	ND	---	---	---	30%	
2,4,5-Trichlorophenol	ND	9440	18800	ug/kg dry	1000	---	ND	---	---	---	30%	
2,4,6-Trichlorophenol	ND	9440	18800	ug/kg dry	1000	---	ND	---	---	---	30%	
Bis(2-ethylhexyl)phthalate	ND	28300	56600	ug/kg dry	1000	---	ND	---	---	---	30%	
Butyl benzyl phthalate	ND	18800	37800	ug/kg dry	1000	---	ND	---	---	---	30%	
Diethylphthalate	ND	18800	37800	ug/kg dry	1000	---	ND	---	---	---	30%	
Dimethylphthalate	ND	18800	37800	ug/kg dry	1000	---	ND	---	---	---	30%	
Di-n-butylphthalate	ND	18800	37800	ug/kg dry	1000	---	ND	---	---	---	30%	
Di-n-octyl phthalate	ND	18800	37800	ug/kg dry	1000	---	ND	---	---	---	30%	
N-Nitrosodimethylamine	ND	4720	9440	ug/kg dry	1000	---	ND	---	---	---	30%	
N-Nitroso-di-n-propylamine	ND	4720	9440	ug/kg dry	1000	---	ND	---	---	---	30%	
N-Nitrosodiphenylamine	ND	9440	9440	ug/kg dry	1000	---	ND	---	---	---	30%	
Bis(2-Chloroethoxy) methane	ND	4720	9440	ug/kg dry	1000	---	ND	---	---	---	30%	
Bis(2-Chloroethyl) ether	ND	4720	9440	ug/kg dry	1000	---	ND	---	---	---	30%	
2,2'-Oxybis(1-Chloropropane)	ND	4720	9440	ug/kg dry	1000	---	ND	---	---	---	30%	
Hexachlorobenzene	ND	1880	3780	ug/kg dry	1000	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	4720	9440	ug/kg dry	1000	---	ND	---	---	---	30%	
Hexachlorocyclopentadiene	ND	9440	18800	ug/kg dry	1000	---	ND	---	---	---	30%	
Hexachloroethane	ND	4720	9440	ug/kg dry	1000	---	ND	---	---	---	30%	
2-Chloronaphthalene	ND	1880	3780	ug/kg dry	1000	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	4720	9440	ug/kg dry	1000	---	ND	---	---	---	30%	
4-Bromophenyl phenyl ether	ND	4720	9440	ug/kg dry	1000	---	ND	---	---	---	30%	
4-Chlorophenyl phenyl ether	ND	4720	9440	ug/kg dry	1000	---	ND	---	---	---	30%	
Aniline	ND	9440	18800	ug/kg dry	1000	---	ND	---	---	---	30%	
4-Chloroaniline	ND	4720	9440	ug/kg dry	1000	---	ND	---	---	---	30%	
2-Nitroaniline	ND	37800	75500	ug/kg dry	1000	---	ND	---	---	---	30%	
3-Nitroaniline	ND	37800	75500	ug/kg dry	1000	---	ND	---	---	---	30%	
4-Nitroaniline	ND	37800	75500	ug/kg dry	1000	---	ND	---	---	---	30%	
Nitrobenzene	ND	18800	37800	ug/kg dry	1000	---	ND	---	---	---	30%	
2,4-Dinitrotoluene	ND	18800	37800	ug/kg dry	1000	---	ND	---	---	---	30%	
2,6-Dinitrotoluene	ND	18800	37800	ug/kg dry	1000	---	ND	---	---	---	30%	
Benzoic acid	ND	236000	472000	ug/kg dry	1000	---	ND	---	---	---	30%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1019 - EPA 3546						Solid						
Duplicate (23C1019-DUP1)			Prepared: 03/27/23 07:35 Analyzed: 03/27/23 18:09									
QC Source Sample: Non-SDG (A3C0674-01)												
Benzyl alcohol	ND	9440	18800	ug/kg dry	1000	---	ND	---	---	---	30%	
Isophorone	ND	4720	9440	ug/kg dry	1000	---	ND	---	---	---	30%	
Azobenzene (1,2-DPH)	ND	4720	9440	ug/kg dry	1000	---	ND	---	---	---	30%	
Bis(2-Ethylhexyl) adipate	ND	47200	94400	ug/kg dry	1000	---	ND	---	---	---	30%	
3,3'-Dichlorobenzidine	ND	37800	75500	ug/kg dry	1000	---	ND	---	---	---	30%	Q-52
1,2-Dinitrobenzene	ND	47200	94400	ug/kg dry	1000	---	ND	---	---	---	30%	
1,3-Dinitrobenzene	ND	47200	94400	ug/kg dry	1000	---	ND	---	---	---	30%	
1,4-Dinitrobenzene	ND	47200	94400	ug/kg dry	1000	---	ND	---	---	---	30%	
Pyridine	ND	9440	18800	ug/kg dry	1000	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	4720	9440	ug/kg dry	1000	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	4720	9440	ug/kg dry	1000	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	4720	9440	ug/kg dry	1000	---	ND	---	---	---	30%	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 88 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 1000x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>121 %</i>		<i>44-120 %</i>		<i>"</i>		<i>S-05</i>				
<i>Phenol-d6 (Surr)</i>		<i>57 %</i>		<i>33-122 %</i>		<i>"</i>		<i>S-05</i>				
<i>p-Terphenyl-d14 (Surr)</i>		<i>139 %</i>		<i>54-127 %</i>		<i>"</i>		<i>S-05</i>				
<i>2-Fluorophenol (Surr)</i>		<i>56 %</i>		<i>35-120 %</i>		<i>"</i>		<i>S-05</i>				
<i>2,4,6-Tribromophenol (Surr)</i>		<i>1220 %</i>		<i>39-132 %</i>		<i>"</i>		<i>S-05</i>				

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1191 - EPA 3051A						Solid						
Blank (23C1191-BLK1)			Prepared: 03/30/23 06:59 Analyzed: 03/30/23 21:14									
<u>EPA 6020B</u>												
Arsenic	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Barium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	100	200	ug/kg wet	10	---	---	---	---	---	---	
Chromium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Lead	ND	100	200	ug/kg wet	10	---	---	---	---	---	---	
Mercury	ND	40.0	80.0	ug/kg wet	10	---	---	---	---	---	---	
Selenium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Silver	ND	100	200	ug/kg wet	10	---	---	---	---	---	---	
<hr/>												
LCS (23C1191-BS1)			Prepared: 03/30/23 06:59 Analyzed: 03/30/23 21:19									
<u>EPA 6020B</u>												
Arsenic	48800	500	1000	ug/kg wet	10	50000	---	98	80-120%	---	---	
Barium	52100	500	1000	ug/kg wet	10	50000	---	104	80-120%	---	---	
Cadmium	49400	100	200	ug/kg wet	10	50000	---	99	80-120%	---	---	
Chromium	47900	500	1000	ug/kg wet	10	50000	---	96	80-120%	---	---	
Lead	51400	100	200	ug/kg wet	10	50000	---	103	80-120%	---	---	
Mercury	981	40.0	80.0	ug/kg wet	10	1000	---	98	80-120%	---	---	
Selenium	23900	500	1000	ug/kg wet	10	25000	---	95	80-120%	---	---	
Silver	24500	100	200	ug/kg wet	10	25000	---	98	80-120%	---	---	
<hr/>												
Duplicate (23C1191-DUP1)			Prepared: 03/30/23 06:59 Analyzed: 03/30/23 21:29									
<u>QC Source Sample: FC-032023-2081 (A3C0842-01)</u>												
<u>EPA 6020B</u>												
Arsenic	10200	2300	4610	ug/kg dry	10	---	9760	---	---	5	20%	CONT
Barium	225000	2300	4610	ug/kg dry	10	---	220000	---	---	2	20%	CONT
Cadmium	ND	461	922	ug/kg dry	10	---	ND	---	---	---	20%	CONT
Chromium	ND	2300	4610	ug/kg dry	10	---	ND	---	---	---	20%	CONT
Lead	696	461	922	ug/kg dry	10	---	635	---	---	9	20%	CONT,J
Mercury	ND	184	369	ug/kg dry	10	---	ND	---	---	---	20%	CONT
Selenium	ND	2300	4610	ug/kg dry	10	---	ND	---	---	---	20%	CONT
Silver	ND	461	922	ug/kg dry	10	---	ND	---	---	---	20%	CONT
<hr/>												
Matrix Spike (23C1191-MS1)			Prepared: 03/30/23 06:59 Analyzed: 03/30/23 21:33									

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1191 - EPA 3051A						Solid						
Matrix Spike (23C1191-MS1)						Prepared: 03/30/23 06:59 Analyzed: 03/30/23 21:33						
QC Source Sample: FC-032023-2081 (A3C0842-01)												
EPA 6020B												
Arsenic	220000	2200	4410	ug/kg dry	10	220000	9760	95	75-125%	---	---	CONT
Barium	441000	2200	4410	ug/kg dry	10	220000	220000	100	75-125%	---	---	CONT
Cadmium	215000	441	881	ug/kg dry	10	220000	ND	97	75-125%	---	---	CONT
Chromium	207000	2200	4410	ug/kg dry	10	220000	ND	94	75-125%	---	---	CONT
Lead	215000	441	881	ug/kg dry	10	220000	635	97	75-125%	---	---	CONT
Mercury	4120	176	352	ug/kg dry	10	4410	ND	94	75-125%	---	---	CONT
Selenium	103000	2200	4410	ug/kg dry	10	110000	ND	93	75-125%	---	---	CONT
Silver	102000	441	881	ug/kg dry	10	110000	ND	93	75-125%	---	---	CONT

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Darwin Thomas, Business Development Director



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QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1102 - EPA 1311/3015A												
Soil												
Blank (23C1102-BLK1)												
Prepared: 03/28/23 11:55 Analyzed: 03/29/23 13:15												
<u>1311/6020B</u>												
Arsenic	ND	50.0	100	ug/L	10	---	---	---	---	---	---	Q-44, TCLP
Barium	ND	2500	5000	ug/L	10	---	---	---	---	---	---	Q-44, TCLP
Cadmium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	Q-44, TCLP
Chromium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	Q-44, TCLP
Lead	ND	25.0	50.0	ug/L	10	---	---	---	---	---	---	Q-44, TCLP
Mercury	ND	3.75	7.00	ug/L	10	---	---	---	---	---	---	Q-44, TCLP
Selenium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	Q-44, TCLP
Silver	ND	50.0	100	ug/L	10	---	---	---	---	---	---	Q-44, TCLP
LCS (23C1102-BS1)												
Prepared: 03/28/23 11:55 Analyzed: 03/29/23 13:20												
<u>1311/6020B</u>												
Arsenic	5050	50.0	100	ug/L	10	5000	---	101	80-120%	---	---	Q-44, TCLP
Barium	10700	2500	5000	ug/L	10	10000	---	107	80-120%	---	---	Q-44, TCLP
Cadmium	985	50.0	100	ug/L	10	1000	---	98	80-120%	---	---	Q-44, TCLP
Chromium	4810	50.0	100	ug/L	10	5000	---	96	80-120%	---	---	Q-44, TCLP
Lead	5300	25.0	50.0	ug/L	10	5000	---	106	80-120%	---	---	Q-44, TCLP
Mercury	98.0	3.75	7.00	ug/L	10	100	---	98	80-120%	---	---	Q-44, TCLP
Selenium	1050	50.0	100	ug/L	10	1000	---	105	80-120%	---	---	Q-44, TCLP
Silver	955	50.0	100	ug/L	10	1000	---	95	80-120%	---	---	Q-44, TCLP
Duplicate (23C1102-DUP1)												
Prepared: 03/28/23 11:55 Analyzed: 03/29/23 13:31												
<u>QC Source Sample: Non-SDG (A3C0602-03)</u>												
Arsenic	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	Q-44
Barium	ND	2500	5000	ug/L	10	---	ND	---	---	---	20%	Q-44
Cadmium	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	Q-44
Chromium	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	Q-44
Lead	ND	25.0	50.0	ug/L	10	---	ND	---	---	---	20%	Q-44
Mercury	ND	3.75	7.00	ug/L	10	---	ND	---	---	---	20%	Q-44
Selenium	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	Q-44
Silver	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	Q-44
Matrix Spike (23C1102-MS1)												
Prepared: 03/28/23 11:55 Analyzed: 03/29/23 13:36												

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
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QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1102 - EPA 1311/3015A						Soil						
Matrix Spike (23C1102-MS1)						Prepared: 03/28/23 11:55 Analyzed: 03/29/23 13:36						
QC Source Sample: Non-SDG (A3C0602-03)												
1311/6020B												
Arsenic	5140	50.0	100	ug/L	10	5000	ND	103	50-150%	---	---	Q-44
Barium	11400	2500	5000	ug/L	10	10000	ND	114	50-150%	---	---	Q-44
Cadmium	1010	50.0	100	ug/L	10	1000	ND	101	50-150%	---	---	Q-44
Chromium	4910	50.0	100	ug/L	10	5000	ND	98	50-150%	---	---	Q-44
Lead	5310	25.0	50.0	ug/L	10	5000	ND	106	50-150%	---	---	Q-44
Mercury	97.9	3.75	7.00	ug/L	10	100	ND	98	50-150%	---	---	Q-44
Selenium	1080	50.0	100	ug/L	10	1000	ND	108	50-150%	---	---	Q-44
Silver	944	50.0	100	ug/L	10	1000	ND	94	50-150%	---	---	Q-44
Matrix Spike (23C1102-MS2)						Prepared: 03/28/23 11:55 Analyzed: 03/29/23 14:03						
QC Source Sample: FC-032023-2081 (A3C0842-01)												
1311/6020B												
Arsenic	5080	50.0	100	ug/L	10	5000	ND	102	50-150%	---	---	CONT,Q-44a
Barium	10800	2500	5000	ug/L	10	10000	ND	108	50-150%	---	---	CONT,Q-44a
Cadmium	996	50.0	100	ug/L	10	1000	ND	100	50-150%	---	---	CONT,Q-44a
Chromium	4870	50.0	100	ug/L	10	5000	ND	97	50-150%	---	---	CONT,Q-44a
Lead	5260	25.0	50.0	ug/L	10	5000	ND	105	50-150%	---	---	CONT,Q-44a
Mercury	97.2	3.75	7.00	ug/L	10	100	ND	97	50-150%	---	---	CONT,Q-44a
Selenium	1050	50.0	100	ug/L	10	1000	ND	105	50-150%	---	---	CONT,Q-44a
Silver	948	50.0	100	ug/L	10	1000	ND	95	50-150%	---	---	CONT,Q-44a
Matrix Spike (23C1102-MS3)						Prepared: 03/28/23 11:55 Analyzed: 03/29/23 14:13						
QC Source Sample: Non-SDG (A3C0844-01)												
1311/6020B												
Arsenic	5100	50.0	100	ug/L	10	5000	ND	102	50-150%	---	---	Q-44a
Barium	10900	2500	5000	ug/L	10	10000	ND	109	50-150%	---	---	Q-44a
Cadmium	1030	50.0	100	ug/L	10	1000	ND	103	50-150%	---	---	Q-44a
Chromium	4900	50.0	100	ug/L	10	5000	ND	98	50-150%	---	---	Q-44a
Lead	5390	25.0	50.0	ug/L	10	5000	ND	108	50-150%	---	---	Q-44a
Mercury	99.5	3.75	7.00	ug/L	10	100	ND	99	50-150%	---	---	Q-44a
Selenium	1070	50.0	100	ug/L	10	1000	ND	107	50-150%	---	---	Q-44a

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ANALYTICAL REPORT

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
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QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1102 - EPA 1311/3015A						Soil						
Matrix Spike (23C1102-MS3)						Prepared: 03/28/23 11:55 Analyzed: 03/29/23 14:13						
QC Source Sample: Non-SDG (A3C0844-01)												
Silver	972	50.0	100	ug/L	10	1000	ND	97	50-150%	---	---	Q-44a

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QUALITY CONTROL (QC) SAMPLE RESULTS

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1248 - ASTM D7511-12mod (S)						Soil						
Blank (23C1248-BLK1)						Prepared: 03/31/23 08:23 Analyzed: 03/31/23 13:02						
<u>D7511-12</u>												
Total Cyanide	ND	50.0	100	ug/kg wet	1	---	---	---	---	---	---	
LCS (23C1248-BS1)						Prepared: 03/31/23 08:23 Analyzed: 03/31/23 13:04						
<u>D7511-12</u>												
Total Cyanide	401	50.0	100	ug/kg wet	1	400	---	100	84-116%	---	---	
Matrix Spike (23C1248-MS1)						Prepared: 03/31/23 08:23 Analyzed: 03/31/23 13:18						
<u>QC Source Sample: Non-SDG (A3C0805-02RE1)</u>												
<u>D7511-12</u>												
Total Cyanide	147000	9990	20000	ug/kg wet	200	399	168000	-5220	64-136%	---	---	Q-03
Matrix Spike Dup (23C1248-MSD1)						Prepared: 03/31/23 08:23 Analyzed: 03/31/23 13:24						
<u>QC Source Sample: Non-SDG (A3C0805-02RE1)</u>												
Total Cyanide	133000	9960	19900	ug/kg wet	200	398	168000	-8800	64-136%	10	47%	Q-03

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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23C0983 - Total Solids (Dry Weight)						Soil							
Duplicate (23C0983-DUP1)			Prepared: 03/24/23 12:33 Analyzed: 03/25/23 11:50						CONT				
<u>QC Source Sample: FC-032023-2081 (A3C0842-01)</u>													
<u>EPA 8000D</u>													
% Solids	22.1	1.00	1.00	%	1	---	23.9	---	---	8	10%		
Duplicate (23C0983-DUP2)			Prepared: 03/24/23 12:33 Analyzed: 03/25/23 11:50										
<u>QC Source Sample: Non-SDG (A3C0844-01)</u>													
% Solids	8.93	1.00	1.00	%	1	---	7.88	---	---	12	10%	Q-04	
Duplicate (23C0983-DUP3)			Prepared: 03/24/23 12:33 Analyzed: 03/25/23 11:50										
<u>QC Source Sample: Non-SDG (A3C0850-01)</u>													
% Solids	92.2	1.00	1.00	%	1	---	92.3	---	---	0.02	10%		

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23D0059</u>							
A3C0842-01	Solid	NWTPH-Dx	03/20/23 12:30	04/03/23 14:53	10.01g/5mL	10g/5mL	1.00

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23C1025</u>							
A3C0842-01RE1	Solid	NWTPH-Gx (MS)	03/20/23 12:30	03/23/23 15:39	5.48g/5mL	5g/5mL	0.91

Volatile Organic Compounds by EPA 8260D

Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23C1025</u>							
A3C0842-01RE1	Solid	5035A/8260D	03/20/23 12:30	03/23/23 15:39	5.48g/5mL	5g/5mL	0.91

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Prep: EPA 1311/5030B TCLP Volatiles					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23D0153</u>							
A3C0842-01	Solid	1311/8260D	03/20/23 12:30	04/05/23 10:37	5mL/5mL	5mL/5mL	1.00

Semivolatile Organic Compounds by EPA 8270E

Prep: EPA 3546					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23C1019</u>							
A3C0842-01	Solid	EPA 8270E	03/20/23 12:30	03/27/23 07:35	15.03g/2mL	15g/2mL	1.00

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3051A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23C1191</u>							
A3C0842-01	Solid	EPA 6020B	03/20/23 12:30	03/30/23 06:59	0.464g/50mL	0.5g/50mL	1.08

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SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3051A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor

TCLP Metals by EPA 6020B (ICPMS)

Prep: EPA 1311/3015A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23C1102</u>							
A3C0842-01	Solid	1311/6020B	03/20/23 12:30	03/28/23 11:55	10mL/50mL	10mL/50mL	1.00

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Prep: ASTM D7511-12mod (S)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23C1248</u>							
A3C0842-01RE1	Solid	D7511-12	03/20/23 12:30	03/31/23 08:23	2.5095g/50mL	2.5g/50mL	1.00

Percent Dry Weight

Prep: Total Solids (Dry Weight)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23C0983</u>							
A3C0842-01	Solid	EPA 8000D	03/20/23 12:30	03/24/23 12:33			NA

TCLP Extraction by EPA 1311

Prep: EPA 1311 (TCLP)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23C1029</u>							
A3C0842-01	Solid	EPA 1311	03/20/23 12:30	03/27/23 15:35	100g/2000g	100g/2000g	NA

Prep: EPA 1311 TCLP/ZHE					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23D0056</u>							
A3C0842-01	Solid	EPA 1311 ZHE	03/20/23 12:30	04/03/23 14:27	25.3g/501.7g	25g/500g	NA

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Sevenson Environmental Services, Inc.
2749 Lockport Road
Niagara Falls, NY 14305

Project: **Gasco -- Filtercake**
Project Number: **111323**
Project Manager: **Chip Byrd**

Report ID:
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QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- B** Analyte detected in an associated blank at a level above the MRL. (See Notes and Conventions below.)
- B-02** Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
- CONT** The Sample Container provided for this analysis was not provided by Apex Laboratories, and has not been verified as part of the Quality System.
- F-13** The chromatographic pattern does not resemble the fuel standard used for quantitation
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- M-05** Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
- Q-01** Spike recovery and/or RPD is outside acceptance limits.
- Q-03** Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
- Q-04** Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- Q-18** Matrix Spike results for this extraction batch are not reported due to the high dilution necessary for analysis of the source sample.
- Q-29** Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
- Q-31** Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
- Q-41** Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- Q-44** Room temperature during the 18 hr. TCLP tumbling procedure exceeded EPA recommended temperature range by no more than +/-2 degrees C for a maximum of 4 hours
- Q-44a** Room temperature during the 18 hr. TCLP tumbling procedure exceeded EPA recommended temperature range by no more than +/-2 degrees C for a maximum of 4 hours.
- Q-52** Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
- Q-54** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +1%. The results are reported as Estimated Values.
- Q-54a** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +13%. The results are reported as Estimated Values.
- Q-54b** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +2%. The results are reported as Estimated Values.
- Q-54c** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +30%. The results are reported as Estimated Values.
- Q-54d** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +32%. The results are reported as Estimated Values.

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Sevenson Environmental Services, Inc.

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Project: **Gasco -- Filtercake**

Project Number: **111323**

Project Manager: **Chip Byrd**

Report ID:

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- Q-54e** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +35%. The results are reported as Estimated Values.
- Q-54f** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +42%. The results are reported as Estimated Values.
- Q-54g** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +50%. The results are reported as Estimated Values.
- Q-54h** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +9%. The results are reported as Estimated Values.
- Q-54i** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -3%. The results are reported as Estimated Values.
- Q-54j** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -4%. The results are reported as Estimated Values.
- Q-54k** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -5%. The results are reported as Estimated Values.
- Q-55** Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
- Q-56** Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- TCLP** This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23C1029.
- TCLPa** This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23D0056.
- V-15** Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.
- V-16** Sample aliquot was subsampled from the sample container in the laboratory. The subsampled aliquot was not preserved within 48 hours of sampling.

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

- DET Analyte DETECTED at or above the detection or reporting limit.
- ND Analyte NOT DETECTED at or above the detection or reporting limit.
- NR Result Not Reported
- RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

- Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.
- " dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
- " wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
- " " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

- " --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- " *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

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ANALYTICAL REPORT

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Table with 3 columns: Client (Sevenson Environmental Services, Inc.), Project (Gasco -- Filtercake), and Report ID (A3C0842 - 05 03 23 1321).

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -
EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
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All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc.
2749 Lockport Road
Niagara Falls, NY 14305

Project: Gasco -- Filtercake
Project Number: 111323
Project Manager: Chip Byrd

Report ID:
A3C0842 - 05 03 23 1321

Lab # A30842 of _____

CHAIN OF CUSTODY

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: Sevenson Environmental Services, Inc.		Project Mgr.: Chip Byrd	Project Name: Gasco - Filtercake	Project # 111323
Address: 2749 Lockport Road, Niagara Falls, NY 14305		Phone: (716) 883-2754	Fax:	E-mail: wbyrd@sevenson.com
Sampled by: <u>Jeffrey Lubinski</u>				

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	8260 VOCs	1311/8260 TCPL VOCs	8270D LL Full List	Dry Weight	Metals, RCRA 8		Metals, TPCL		Total Cyanide	NMTPH-DX	NMTPH-GX
										X	X	X	X			
FC-032023-2081		03/23/23	1230	S	1	X	X	X	X	X	X	X	X	X	X	X

Normal Turn Around Time (TAT) = 6-10 Business Days

SPECIAL INSTRUCTIONS:

TAT Requested (circle)	1 DAY	2 DAY	3 DAY	4 DAY
5 DAY	STD	Other:		


SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY:	RECEIVED BY:
Signature: <u>Jeffrey Lubinski</u>	Signature: _____
Date: <u>03/23/23</u>	Date: _____
Printed Name: <u>Jeffrey Lubinski</u>	Printed Name: _____
Time: <u>1230</u>	Time: _____
Company: <u>S.E.S.</u>	Company: _____

2/16/14 BC

RELINQUISHED BY:	RECEIVED BY:
Signature: <u>Chip Byrd</u>	Signature: _____
Date: <u>3/23/23</u>	Date: <u>2/2/23</u>
Printed Name: <u>Chip Byrd</u>	Printed Name: <u>Andy Munjzen</u>
Time: <u>843</u>	Time: <u>1305</u>
Company: <u>Apex</u>	Company: <u>Apex</u>

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3C0842 - 05 03 23 1321
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APEX LABS COOLER RECEIPT FORM

Client: Sevenson Environmental Services, Inc. Element WO#: A3 0842

Project/Project #: Gasco -- Filtercake / 111323

Delivery Info:
 Date/time received: 3/23/23 @ 1305 By: AJM
 Delivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen Other

Cooler Inspection Date/time inspected: 3/23/23 @ 1453 By: AJM
 Chain of Custody included? Yes No
 Signed/dated by client? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>1.8</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>Y</u>						
Ice type: (Gel/Real/Other)	<u>Gel</u>						
Condition (In/Out):	<u>In</u>						

Cooler out of temp? (Y/N) Possible reason why: _____
 Green dots applied to out of temperature samples? Yes No
 Out of temperature samples form initiated? Yes No
Sample Inspection: Date/time inspected: 3/23/23 @ 1500 By: JS
 All samples intact? Yes No Comments: _____

 Bottle labels/COCs agree? Yes No Comments: _____

 COC/container discrepancies form initiated? Yes No
 Containers/volumes received appropriate for analysis? Yes No Comments: _____

 Do VOA vials have visible headspace? Yes No NA
 Comments: _____
 Water samples: pH checked: Yes No NA pH appropriate? Yes No NA
 Comments: _____

Additional information:

 Labeled by: JS Witness: DKC Cooler Inspected by: JS Form Y-003 R-00

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Thursday, May 4, 2023

Chip Byrd
Sevenson Environmental Services, Inc.
2749 Lockport Road
Niagara Falls, NY 14305

RE: A3D1359 - Gasco -- Filtercake - 111323

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3D1359, which was received by the laboratory on 4/19/2023 at 7:57:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler 3.2 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.
All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FC-041623-2245	A3D1359-01	Solid	04/16/23 22:45	04/19/23 07:57

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
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ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
FC-041623-2245 (A3D1359-01)				Matrix: Solid		Batch: 23D1174		CONT	
Diesel	2570000	183000	365000	ug/kg dry	5	04/29/23 00:03	NWTPH-Dx	F-13	
Oil	ND	365000	731000	ug/kg dry	5	04/29/23 00:03	NWTPH-Dx		
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 50-150 %</i>		<i>5</i>	<i>04/29/23 00:03</i>	<i>NWTPH-Dx</i>	<i>S-05</i>

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-041623-2245 (A3D1359-01RE1)				Matrix: Solid		Batch: 23D0858		V-16
Gasoline Range Organics	63800	15000	30000	ug/kg dry	50	04/21/23 15:34	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 108 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>04/21/23 15:34</i>	<i>NWTPH-Gx (MS)</i>
<i>1,4-Difluorobenzene (Sur)</i>		<i>96 %</i>		<i>50-150 %</i>		<i>1</i>	<i>04/21/23 15:34</i>	<i>NWTPH-Gx (MS)</i>

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-041623-2245 (A3D1359-01RE1)				Matrix: Solid		Batch: 23D0858		V-16
Acetone	ND	3000	6010	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
Acrylonitrile	ND	300	601	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
Benzene	72.1	30.0	60.1	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
Bromobenzene	ND	75.1	150	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
Bromochloromethane	ND	150	300	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
Bromodichloromethane	ND	150	300	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
Bromoform	ND	300	601	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
Bromomethane	ND	3000	3000	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
2-Butanone (MEK)	ND	1500	3000	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
n-Butylbenzene	ND	300	300	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
sec-Butylbenzene	ND	150	300	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
tert-Butylbenzene	ND	150	300	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
Carbon disulfide	ND	1500	3000	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
Carbon tetrachloride	ND	150	300	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
Chlorobenzene	ND	75.1	150	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
Chloroethane	ND	1500	3000	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
Chloroform	ND	150	300	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
Chloromethane	ND	75.1	1500	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
2-Chlorotoluene	ND	150	300	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
4-Chlorotoluene	ND	150	300	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
Dibromochloromethane	ND	300	601	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	75.1	1500	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	150	300	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
Dibromomethane	ND	150	300	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
1,2-Dichlorobenzene	ND	75.1	150	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
1,3-Dichlorobenzene	ND	75.1	150	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
1,4-Dichlorobenzene	ND	75.1	150	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
Dichlorodifluoromethane	ND	300	601	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
1,1-Dichloroethane	ND	75.1	150	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	75.1	150	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
1,1-Dichloroethene	ND	75.1	150	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
cis-1,2-Dichloroethene	ND	75.1	150	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
trans-1,2-Dichloroethene	ND	75.1	150	ug/kg dry	50	04/21/23 15:34	5035A/8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-041623-2245 (A3D1359-01RE1)				Matrix: Solid		Batch: 23D0858		V-16
1,2-Dichloropropane	ND	75.1	150	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
1,3-Dichloropropane	ND	150	300	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
2,2-Dichloropropane	ND	150	300	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
1,1-Dichloropropene	ND	150	300	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
cis-1,3-Dichloropropene	ND	150	300	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
trans-1,3-Dichloropropene	ND	150	300	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
Ethylbenzene	ND	150	150	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
Hexachlorobutadiene	ND	300	601	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
2-Hexanone	ND	1500	3000	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
Isopropylbenzene	ND	150	300	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
4-Isopropyltoluene	ND	150	300	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
Methylene chloride	ND	1500	3000	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
4-Methyl-2-pentanone (MIBK)	ND	1500	3000	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	150	300	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
Naphthalene	ND	751	751	ug/kg dry	50	04/21/23 15:34	5035A/8260D	R-06
n-Propylbenzene	ND	75.1	150	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
Styrene	ND	150	300	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	75.1	150	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
1,1,1,2,2-Tetrachloroethane	ND	150	300	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
Tetrachloroethene (PCE)	ND	75.1	150	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
Toluene	ND	150	300	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
1,2,3-Trichlorobenzene	ND	751	1500	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
1,2,4-Trichlorobenzene	ND	751	1500	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
1,1,1-Trichloroethane	ND	75.1	150	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
1,1,2-Trichloroethane	ND	75.1	150	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
Trichloroethene (TCE)	ND	75.1	150	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
Trichlorofluoromethane	ND	300	601	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
1,2,3-Trichloropropane	ND	150	300	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
1,2,4-Trimethylbenzene	ND	451	451	ug/kg dry	50	04/21/23 15:34	5035A/8260D	R-06
1,3,5-Trimethylbenzene	ND	300	300	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
Vinyl chloride	ND	75.1	150	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
m,p-Xylene	ND	150	300	ug/kg dry	50	04/21/23 15:34	5035A/8260D	
o-Xylene	ND	150	150	ug/kg dry	50	04/21/23 15:34	5035A/8260D	

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-041623-2245 (A3D1359-01RE1)				Matrix: Solid		Batch: 23D0858		V-16
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 106 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>04/21/23 15:34</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>94 %</i>		<i>80-120 %</i>	<i>1</i>	<i>04/21/23 15:34</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>104 %</i>		<i>79-120 %</i>	<i>1</i>	<i>04/21/23 15:34</i>	<i>5035A/8260D</i>	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
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ANALYTICAL SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-041623-2245 (A3D1359-01)				Matrix: Solid		Batch: 23D0867		CONT
Benzene	ND	6.25	12.5	ug/L	50	04/22/23 12:44	1311/8260D	
2-Butanone (MEK)	ND	250	500	ug/L	50	04/22/23 12:44	1311/8260D	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	04/22/23 12:44	1311/8260D	
Chlorobenzene	ND	12.5	25.0	ug/L	50	04/22/23 12:44	1311/8260D	
Chloroform	ND	25.0	50.0	ug/L	50	04/22/23 12:44	1311/8260D	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	04/22/23 12:44	1311/8260D	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	04/22/23 12:44	1311/8260D	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	04/22/23 12:44	1311/8260D	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	04/22/23 12:44	1311/8260D	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	04/22/23 12:44	1311/8260D	
Vinyl chloride	ND	12.5	25.0	ug/L	50	04/22/23 12:44	1311/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 95 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>04/22/23 12:44</i>	<i>1311/8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/22/23 12:44</i>	<i>1311/8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>104 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/22/23 12:44</i>	<i>1311/8260D</i>

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-041623-2245 (A3D1359-01)				Matrix: Solid		Batch: 23D1170		CONT
Acenaphthene	23000	1000	2010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Acenaphthylene	ND	4130	4130	ug/kg dry	200	04/29/23 01:25	EPA 8270E	R-02
Anthracene	26900	1000	2010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Benz(a)anthracene	18800	1000	2010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Benzo(a)pyrene	19600	1500	3010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Benzo(b)fluoranthene	16200	1500	3010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Benzo(k)fluoranthene	6090	1500	3010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Chrysene	25200	1000	2010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Fluoranthene	86800	1000	2010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Fluorene	17600	1000	2010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
1-Methylnaphthalene	5710	2010	4010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
2-Methylnaphthalene	ND	2010	4010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Naphthalene	ND	2010	4010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Phenanthrene	143000	1000	2010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Pyrene	102000	1000	2010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Carbazole	ND	1500	3010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Dibenzofuran	1880	1000	2010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	J
2-Chlorophenol	ND	5010	10000	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
4-Chloro-3-methylphenol	ND	10000	20100	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
2,4-Dichlorophenol	ND	5010	10000	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
2,4-Dimethylphenol	ND	5010	10000	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
2,4-Dinitrophenol	ND	25000	50100	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	25000	50100	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
2-Methylphenol	ND	2500	5010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
3+4-Methylphenol(s)	ND	2500	5010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
2-Nitrophenol	ND	10000	20100	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
4-Nitrophenol	ND	20100	20100	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Pentachlorophenol (PCP)	ND	10000	20100	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Phenol	ND	2010	4010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	5010	10000	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	5010	10000	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
2,4,5-Trichlorophenol	ND	5010	10000	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
2,4,6-Trichlorophenol	ND	5010	10000	ug/kg dry	200	04/29/23 01:25	EPA 8270E	

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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-041623-2245 (A3D1359-01)				Matrix: Solid		Batch: 23D1170		CONT
Bis(2-ethylhexyl)phthalate	ND	15000	30100	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Butyl benzyl phthalate	ND	10000	20100	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Diethylphthalate	ND	10000	20100	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Dimethylphthalate	ND	10000	20100	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Di-n-butylphthalate	ND	10000	20100	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Di-n-octyl phthalate	ND	10000	20100	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
N-Nitrosodimethylamine	ND	2500	5010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	2500	5010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
N-Nitrosodiphenylamine	ND	5010	5010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	2500	5010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	2500	5010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	2500	5010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Hexachlorobenzene	ND	1000	2010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Hexachlorobutadiene	ND	2500	5010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Hexachlorocyclopentadiene	ND	5010	10000	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Hexachloroethane	ND	2500	5010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
2-Chloronaphthalene	ND	1000	2010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
1,2,4-Trichlorobenzene	ND	2500	5010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
4-Bromophenyl phenyl ether	ND	2500	5010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	2500	5010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Aniline	ND	5010	10000	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
4-Chloroaniline	ND	2500	5010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
2-Nitroaniline	ND	20100	40100	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
3-Nitroaniline	ND	20100	40100	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
4-Nitroaniline	ND	20100	40100	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Nitrobenzene	ND	10000	20100	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
2,4-Dinitrotoluene	ND	10000	20100	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
2,6-Dinitrotoluene	ND	10000	20100	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Benzoic acid	ND	126000	250000	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Benzyl alcohol	ND	5010	10000	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Isophorone	ND	2500	5010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Azobenzene (1,2-DPH)	ND	2500	5010	ug/kg dry	200	04/29/23 01:25	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	25000	50100	ug/kg dry	200	04/29/23 01:25	EPA 8270E	

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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes			
FC-041623-2245 (A3D1359-01)				Matrix: Solid		Batch: 23D1170		CONT			
3,3'-Dichlorobenzidine	ND	20100	40100	ug/kg dry	200	04/29/23 01:25	EPA 8270E	Q-52			
1,2-Dinitrobenzene	ND	25000	50100	ug/kg dry	200	04/29/23 01:25	EPA 8270E				
1,3-Dinitrobenzene	ND	25000	50100	ug/kg dry	200	04/29/23 01:25	EPA 8270E				
1,4-Dinitrobenzene	ND	25000	50100	ug/kg dry	200	04/29/23 01:25	EPA 8270E				
Pyridine	ND	5010	10000	ug/kg dry	200	04/29/23 01:25	EPA 8270E				
1,2-Dichlorobenzene	ND	2500	5010	ug/kg dry	200	04/29/23 01:25	EPA 8270E				
1,3-Dichlorobenzene	ND	2500	5010	ug/kg dry	200	04/29/23 01:25	EPA 8270E				
1,4-Dichlorobenzene	ND	2500	5010	ug/kg dry	200	04/29/23 01:25	EPA 8270E				
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 92 %</i>		<i>Limits: 37-122 %</i>		<i>200</i>	<i>04/29/23 01:25</i>	<i>EPA 8270E</i>	<i>S-05</i>		
<i>2-Fluorobiphenyl (Surr)</i>				<i>75 %</i>		<i>44-120 %</i>		<i>200</i>	<i>04/29/23 01:25</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>Phenol-d6 (Surr)</i>				<i>47 %</i>		<i>33-122 %</i>		<i>200</i>	<i>04/29/23 01:25</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>				<i>111 %</i>		<i>54-127 %</i>		<i>200</i>	<i>04/29/23 01:25</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>2-Fluorophenol (Surr)</i>				<i>69 %</i>		<i>35-120 %</i>		<i>200</i>	<i>04/29/23 01:25</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>2,4,6-Tribromophenol (Surr)</i>				<i>294 %</i>		<i>39-132 %</i>		<i>200</i>	<i>04/29/23 01:25</i>	<i>EPA 8270E</i>	<i>S-05</i>
FC-041623-2245 (A3D1359-01RE2)				Matrix: Solid		Batch: 23D1170		CONT			
Benzo(g,h,i)perylene	11900	2000	4010	ug/kg dry	400	05/02/23 01:29	EPA 8270E				
Dibenz(a,h)anthracene	ND	2000	4010	ug/kg dry	400	05/02/23 01:29	EPA 8270E				
Indeno(1,2,3-cd)pyrene	10200	2000	4010	ug/kg dry	400	05/02/23 01:29	EPA 8270E				

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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
FC-041623-2245 (A3D1359-01)				Matrix: Solid					
Batch: 23D0850									
Arsenic	6360	2050	4100	ug/kg dry	10	04/22/23 02:24	EPA 6020B	CONT	
Cadmium	ND	410	819	ug/kg dry	10	04/22/23 02:24	EPA 6020B	CONT	
Chromium	ND	2050	4100	ug/kg dry	10	04/22/23 02:24	EPA 6020B	CONT	
Selenium	ND	2050	4100	ug/kg dry	10	04/22/23 02:24	EPA 6020B	CONT	
FC-041623-2245 (A3D1359-01RE1)				Matrix: Solid					
Batch: 23D0850									
Barium	178000	2050	4100	ug/kg dry	10	04/24/23 22:53	EPA 6020B	CONT	
Lead	ND	410	819	ug/kg dry	10	04/24/23 22:53	EPA 6020B	CONT	
Mercury	ND	164	328	ug/kg dry	10	04/24/23 22:53	EPA 6020B	CONT	
Silver	ND	410	819	ug/kg dry	10	04/24/23 22:53	EPA 6020B	CONT	

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ANALYTICAL SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-041623-2245 (A3D1359-01)				Matrix: Solid				
Batch: 23D0989								
Arsenic	ND	50.0	100	ug/L	10	04/26/23 00:25	1311/6020B	CONT
Barium	ND	2500	5000	ug/L	10	04/26/23 00:25	1311/6020B	CONT
Cadmium	ND	50.0	100	ug/L	10	04/26/23 00:25	1311/6020B	CONT
Chromium	ND	50.0	100	ug/L	10	04/26/23 00:25	1311/6020B	CONT
Lead	ND	25.0	50.0	ug/L	10	04/26/23 00:25	1311/6020B	CONT
Mercury	ND	3.75	7.00	ug/L	10	04/26/23 00:25	1311/6020B	CONT
Selenium	ND	50.0	100	ug/L	10	04/26/23 00:25	1311/6020B	CONT
Silver	ND	50.0	100	ug/L	10	04/26/23 00:25	1311/6020B	CONT

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ANALYTICAL SAMPLE RESULTS

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-041623-2245 (A3D1359-01RE1)				Matrix: Solid		Batch: 23D0855		CONT
Total Cyanide	6400	943	1890	ug/kg dry	5	04/21/23 16:33	D7511-12	

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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-041623-2245 (A3D1359-01)				Matrix: Solid		Batch: 23D0767		CONT
% Solids	26.4	1.00	1.00	%	1	04/20/23 04:12	EPA 8000D	

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ANALYTICAL SAMPLE RESULTS

TCLP Extraction by EPA 1311 (ZHE)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-041623-2245 (A3D1359-01)				Matrix: Solid		Batch: 23D0833		CONT
TCLP ZHE Extraction	0.00			N/A	1	04/20/23 14:37	EPA 1311 ZHE	
TCLP Extraction	PREP			N/A	1	04/24/23 15:22	EPA 1311	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D1174 - EPA 3546 (Fuels)						Solid						
Blank (23D1174-BLK1)			Prepared: 04/28/23 13:09 Analyzed: 04/28/23 22:20									
<u>NWTPH-Dx</u>												
Diesel	ND	10000	20000	ug/kg wet	1	---	---	---	---	---	---	
Oil	ND	20000	40000	ug/kg wet	1	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 86 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
LCS (23D1174-BS1)			Prepared: 04/28/23 13:09 Analyzed: 04/28/23 22:40									
<u>NWTPH-Dx</u>												
Diesel	127000	10000	20000	ug/kg wet	1	125000	---	102	38-132%	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 90 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
Duplicate (23D1174-DUP1)			Prepared: 04/28/23 13:09 Analyzed: 04/28/23 23:22									CONT
<u>QC Source Sample: FC-041623-2245 (A3D1359-01)</u>												
<u>NWTPH-Dx</u>												
Diesel	2760000	188000	377000	ug/kg dry	5	---	2570000	---	---	7	30%	F-13
Oil	ND	377000	753000	ug/kg dry	5	---	ND	---	---	---	30%	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 5x</i>						S-05

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0810 - EPA 5035A						Soil						
Blank (23D0810-BLK1)			Prepared: 04/20/23 08:47 Analyzed: 04/20/23 11:33									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	2500	5000	ug/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 97 %	Limits: 50-150 %			Dilution: 1x						
1,4-Difluorobenzene (Sur)		103 %	50-150 %			"						
LCS (23D0810-BS2)			Prepared: 04/20/23 08:47 Analyzed: 04/20/23 10:55									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	25500	2500	5000	ug/kg wet	50	25000	---	102	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 98 %	Limits: 50-150 %			Dilution: 1x						
1,4-Difluorobenzene (Sur)		104 %	50-150 %			"						
Duplicate (23D0810-DUP1)			Prepared: 04/19/23 10:56 Analyzed: 04/20/23 12:50									
<u>QC Source Sample: Non-SDG (A3D1373-01)</u>												
Gasoline Range Organics	ND	3120	6240	ug/kg dry	50	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 96 %	Limits: 50-150 %			Dilution: 1x						
1,4-Difluorobenzene (Sur)		101 %	50-150 %			"						
Duplicate (23D0810-DUP2)			Prepared: 04/14/23 13:45 Analyzed: 04/20/23 13:41									
<u>QC Source Sample: Non-SDG (A3D1230-08)</u>												
Gasoline Range Organics	3470	3340	6690	ug/kg dry	50	---	3540	---	---	2	30%	J
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 99 %	Limits: 50-150 %			Dilution: 1x						
1,4-Difluorobenzene (Sur)		101 %	50-150 %			"						

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0858 - EPA 5035A						Soil						
Blank (23D0858-BLK1)			Prepared: 04/21/23 08:35 Analyzed: 04/21/23 11:17									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	2500	5000	ug/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 96 %	Limits: 50-150 %			Dilution: 1x						
1,4-Difluorobenzene (Sur)		100 %	50-150 %			"						
LCS (23D0858-BS2)			Prepared: 04/21/23 08:35 Analyzed: 04/21/23 10:47									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	24000	2500	5000	ug/kg wet	50	25000	---	96	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 98 %	Limits: 50-150 %			Dilution: 1x						
1,4-Difluorobenzene (Sur)		100 %	50-150 %			"						
Duplicate (23D0858-DUP1)			Prepared: 04/20/23 14:28 Analyzed: 04/21/23 12:08									
<u>QC Source Sample: Non-SDG (A3D1419-01)</u>												
Gasoline Range Organics	1500000	22100	44300	ug/kg dry	200	---	1620000	---	---	8	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 101 %	Limits: 50-150 %			Dilution: 1x						
1,4-Difluorobenzene (Sur)		98 %	50-150 %			"						
Duplicate (23D0858-DUP2)			Prepared: 04/14/23 12:30 Analyzed: 04/21/23 18:09									
<u>QC Source Sample: Non-SDG (A3D1230-06)</u>												
Gasoline Range Organics	417000	32700	65300	ug/kg dry	500	---	428000	---	---	3	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 99 %	Limits: 50-150 %			Dilution: 1x						
1,4-Difluorobenzene (Sur)		97 %	50-150 %			"						

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0810 - EPA 5035A						Soil						
Blank (23D0810-BLK1)			Prepared: 04/20/23 08:47 Analyzed: 04/20/23 11:33									
<u>5035A/8260D</u>												
Acetone	ND	500	1000	ug/kg wet	50	---	---	---	---	---	---	
Acrylonitrile	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Benzene	ND	5.00	10.0	ug/kg wet	50	---	---	---	---	---	---	
Bromobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Bromochloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromodichloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromoform	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Bromomethane	ND	500	500	ug/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
n-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Carbon disulfide	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Chloroethane	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chloromethane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromochloromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromomethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0810 - EPA 5035A						Soil						
Blank (23D0810-BLK1)			Prepared: 04/20/23 08:47 Analyzed: 04/20/23 11:33									
1,2-Dichloropropane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Methylene chloride	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Styrene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 103 % Limits: 80-120 % Dilution: 1x

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ANALYTICAL REPORT

Apex Laboratories, LLC

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0810 - EPA 5035A						Soil						
Blank (23D0810-BLK1)						Prepared: 04/20/23 08:47 Analyzed: 04/20/23 11:33						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 99 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>79-120 %</i>		<i>"</i>						
LCS (23D0810-BS1)						Prepared: 04/20/23 08:47 Analyzed: 04/20/23 10:30						
5035A/8260D												
Acetone	1960	500	1000	ug/kg wet	50	2000	---	98	80-120%	---	---	
Acrylonitrile	1040	50.0	100	ug/kg wet	50	1000	---	104	80-120%	---	---	
Benzene	1060	5.00	10.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
Bromobenzene	1000	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Bromochloromethane	1050	25.0	50.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
Bromodichloromethane	952	25.0	50.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
Bromoform	995	50.0	100	ug/kg wet	50	1000	---	100	80-120%	---	---	
Bromomethane	1260	500	500	ug/kg wet	50	1000	---	126	80-120%	---	---	Q-56
2-Butanone (MEK)	1840	250	500	ug/kg wet	50	2000	---	92	80-120%	---	---	
n-Butylbenzene	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
sec-Butylbenzene	996	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
tert-Butylbenzene	945	25.0	50.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
Carbon disulfide	1220	250	500	ug/kg wet	50	1000	---	122	80-120%	---	---	Q-56
Carbon tetrachloride	934	25.0	50.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
Chlorobenzene	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
Chloroethane	1490	250	500	ug/kg wet	50	1000	---	149	80-120%	---	---	Q-56
Chloroform	1030	25.0	50.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
Chloromethane	1050	125	250	ug/kg wet	50	1000	---	105	80-120%	---	---	
2-Chlorotoluene	1020	25.0	50.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
4-Chlorotoluene	984	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Dibromochloromethane	1020	50.0	100	ug/kg wet	50	1000	---	102	80-120%	---	---	
1,2-Dibromo-3-chloropropane	876	125	250	ug/kg wet	50	1000	---	88	80-120%	---	---	
1,2-Dibromoethane (EDB)	1020	25.0	50.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
Dibromomethane	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,2-Dichlorobenzene	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
1,3-Dichlorobenzene	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
1,4-Dichlorobenzene	996	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Dichlorodifluoromethane	1230	50.0	100	ug/kg wet	50	1000	---	123	80-120%	---	---	Q-56
1,1-Dichloroethane	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	

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ANALYTICAL REPORT

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0810 - EPA 5035A						Soil						
LCS (23D0810-BS1)			Prepared: 04/20/23 08:47 Analyzed: 04/20/23 10:30									
1,2-Dichloroethane (EDC)	990	12.5	25.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
1,1-Dichloroethene	1300	12.5	25.0	ug/kg wet	50	1000	---	130	80-120%	---	---	Q-56
cis-1,2-Dichloroethene	994	12.5	25.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
trans-1,2-Dichloroethene	994	12.5	25.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
1,2-Dichloropropane	1060	12.5	25.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
1,3-Dichloropropane	1030	25.0	50.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
2,2-Dichloropropane	920	25.0	50.0	ug/kg wet	50	1000	---	92	80-120%	---	---	
1,1-Dichloropropene	1070	25.0	50.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
cis-1,3-Dichloropropene	930	25.0	50.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
trans-1,3-Dichloropropene	950	25.0	50.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
Ethylbenzene	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
Hexachlorobutadiene	940	50.0	100	ug/kg wet	50	1000	---	94	80-120%	---	---	
2-Hexanone	1670	250	500	ug/kg wet	50	2000	---	84	80-120%	---	---	
Isopropylbenzene	949	25.0	50.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
4-Isopropyltoluene	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Methylene chloride	1100	250	500	ug/kg wet	50	1000	---	110	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	1790	250	500	ug/kg wet	50	2000	---	90	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	974	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
Naphthalene	952	50.0	100	ug/kg wet	50	1000	---	95	80-120%	---	---	
n-Propylbenzene	1030	12.5	25.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
Styrene	982	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
1,1,1,2-Tetrachloroethane	943	12.5	25.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
1,1,2,2-Tetrachloroethane	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Tetrachloroethene (PCE)	1000	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Toluene	961	25.0	50.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
1,2,3-Trichlorobenzene	1060	125	250	ug/kg wet	50	1000	---	106	80-120%	---	---	
1,2,4-Trichlorobenzene	1020	125	250	ug/kg wet	50	1000	---	102	80-120%	---	---	
1,1,1-Trichloroethane	1000	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
1,1,2-Trichloroethane	1040	12.5	25.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Trichloroethene (TCE)	1080	12.5	25.0	ug/kg wet	50	1000	---	108	80-120%	---	---	
Trichlorofluoromethane	1470	50.0	100	ug/kg wet	50	1000	---	147	80-120%	---	---	Q-56
1,2,3-Trichloropropane	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,2,4-Trimethylbenzene	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,3,5-Trimethylbenzene	1030	25.0	50.0	ug/kg wet	50	1000	---	103	80-120%	---	---	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0810 - EPA 5035A						Soil						
LCS (23D0810-BS1)						Prepared: 04/20/23 08:47 Analyzed: 04/20/23 10:30						
Vinyl chloride	1100	12.5	25.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
m,p-Xylene	2010	25.0	50.0	ug/kg wet	50	2000	---	101	80-120%	---	---	
o-Xylene	980	12.5	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (23D0810-DUP1) Prepared: 04/19/23 10:56 Analyzed: 04/20/23 12:50

QC Source Sample: Non-SDG (A3D1373-01)												
Acetone	ND	624	1250	ug/kg dry	50	---	ND	---	---	---	30%	
Acrylonitrile	ND	62.4	125	ug/kg dry	50	---	ND	---	---	---	30%	
Benzene	ND	6.24	12.5	ug/kg dry	50	---	ND	---	---	---	30%	
Bromobenzene	ND	15.6	31.2	ug/kg dry	50	---	ND	---	---	---	30%	
Bromochloromethane	ND	31.2	62.4	ug/kg dry	50	---	ND	---	---	---	30%	
Bromodichloromethane	ND	31.2	62.4	ug/kg dry	50	---	ND	---	---	---	30%	
Bromoform	ND	62.4	125	ug/kg dry	50	---	ND	---	---	---	30%	
Bromomethane	ND	624	624	ug/kg dry	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	312	624	ug/kg dry	50	---	ND	---	---	---	30%	
n-Butylbenzene	ND	31.2	62.4	ug/kg dry	50	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	31.2	62.4	ug/kg dry	50	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	31.2	62.4	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon disulfide	ND	312	624	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	31.2	62.4	ug/kg dry	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	15.6	31.2	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroethane	ND	312	624	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroform	ND	31.2	62.4	ug/kg dry	50	---	ND	---	---	---	30%	
Chloromethane	ND	156	312	ug/kg dry	50	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	31.2	62.4	ug/kg dry	50	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	31.2	62.4	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromochloromethane	ND	62.4	125	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	156	312	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	31.2	62.4	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromomethane	ND	31.2	62.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	15.6	31.2	ug/kg dry	50	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0810 - EPA 5035A						Soil						
Duplicate (23D0810-DUP1)			Prepared: 04/19/23 10:56 Analyzed: 04/20/23 12:50									
QC Source Sample: Non-SDG (A3D1373-01)												
1,3-Dichlorobenzene	ND	15.6	31.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	15.6	31.2	ug/kg dry	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	62.4	125	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	15.6	31.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	15.6	31.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	15.6	31.2	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	15.6	31.2	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	15.6	31.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	15.6	31.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	31.2	62.4	ug/kg dry	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	31.2	62.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	31.2	62.4	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	31.2	62.4	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	31.2	62.4	ug/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	15.6	31.2	ug/kg dry	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	62.4	125	ug/kg dry	50	---	ND	---	---	---	30%	
2-Hexanone	ND	31.2	62.4	ug/kg dry	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	31.2	62.4	ug/kg dry	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	31.2	62.4	ug/kg dry	50	---	ND	---	---	---	30%	
Methylene chloride	ND	31.2	62.4	ug/kg dry	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	31.2	62.4	ug/kg dry	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	31.2	62.4	ug/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	62.4	125	ug/kg dry	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	15.6	31.2	ug/kg dry	50	---	ND	---	---	---	30%	
Styrene	ND	31.2	62.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	15.6	31.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	31.2	62.4	ug/kg dry	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	15.6	31.2	ug/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	31.2	62.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	156	312	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	156	312	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	15.6	31.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	15.6	31.2	ug/kg dry	50	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0810 - EPA 5035A						Soil						
Duplicate (23D0810-DUP1)			Prepared: 04/19/23 10:56 Analyzed: 04/20/23 12:50									
QC Source Sample: Non-SDG (A3D1373-01)												
Trichloroethene (TCE)	ND	15.6	31.2	ug/kg dry	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	62.4	125	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	31.2	62.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	31.2	62.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	31.2	62.4	ug/kg dry	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	15.6	31.2	ug/kg dry	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	31.2	62.4	ug/kg dry	50	---	ND	---	---	---	30%	
o-Xylene	ND	15.6	31.2	ug/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (23D0810-DUP2)			Prepared: 04/14/23 13:45 Analyzed: 04/20/23 13:41									
QC Source Sample: Non-SDG (A3D1230-08)												
Acetone	ND	669	1340	ug/kg dry	50	---	ND	---	---	---	30%	
Acrylonitrile	ND	66.9	134	ug/kg dry	50	---	ND	---	---	---	30%	
Benzene	ND	6.69	13.4	ug/kg dry	50	---	ND	---	---	---	30%	
Bromobenzene	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
Bromochloromethane	ND	33.4	66.9	ug/kg dry	50	---	ND	---	---	---	30%	
Bromodichloromethane	ND	33.4	66.9	ug/kg dry	50	---	ND	---	---	---	30%	
Bromoform	ND	66.9	134	ug/kg dry	50	---	ND	---	---	---	30%	
Bromomethane	ND	669	669	ug/kg dry	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	334	669	ug/kg dry	50	---	ND	---	---	---	30%	
n-Butylbenzene	ND	33.4	66.9	ug/kg dry	50	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	33.4	66.9	ug/kg dry	50	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	33.4	66.9	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon disulfide	ND	334	669	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	33.4	66.9	ug/kg dry	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroethane	ND	334	669	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroform	ND	33.4	66.9	ug/kg dry	50	---	ND	---	---	---	30%	
Chloromethane	ND	167	334	ug/kg dry	50	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	33.4	66.9	ug/kg dry	50	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0810 - EPA 5035A						Soil						
Duplicate (23D0810-DUP2)			Prepared: 04/14/23 13:45 Analyzed: 04/20/23 13:41									
QC Source Sample: Non-SDG (A3D1230-08)												
4-Chlorotoluene	ND	33.4	66.9	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromochloromethane	ND	66.9	134	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	167	334	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	33.4	66.9	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromomethane	ND	33.4	66.9	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	66.9	134	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	33.4	66.9	ug/kg dry	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	33.4	66.9	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	33.4	66.9	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	33.4	66.9	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	33.4	66.9	ug/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	66.9	134	ug/kg dry	50	---	ND	---	---	---	30%	
2-Hexanone	ND	334	669	ug/kg dry	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	33.4	66.9	ug/kg dry	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	33.4	66.9	ug/kg dry	50	---	ND	---	---	---	30%	
Methylene chloride	ND	334	669	ug/kg dry	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	334	669	ug/kg dry	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	33.4	66.9	ug/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	66.9	134	ug/kg dry	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
Styrene	ND	33.4	66.9	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	33.4	66.9	ug/kg dry	50	---	ND	---	---	---	30%	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0810 - EPA 5035A												
Soil												
Duplicate (23D0810-DUP2)												
Prepared: 04/14/23 13:45 Analyzed: 04/20/23 13:41												
QC Source Sample: Non-SDG (A3D1230-08)												
Tetrachloroethene (PCE)	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	33.4	66.9	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	167	334	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	167	334	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	66.9	134	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	33.4	66.9	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	33.4	66.9	ug/kg dry	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	33.4	66.9	ug/kg dry	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	33.4	66.9	ug/kg dry	50	---	ND	---	---	---	30%	
o-Xylene	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>79-120 %</i>		<i>"</i>						

Matrix Spike (23D0810-MS1)												
Prepared: 04/18/23 12:00 Analyzed: 04/20/23 15:48												
QC Source Sample: Non-SDG (A3D1336-01)												
5035A/8260D												
Acetone	2340	625	1250	ug/kg dry	50	2500	ND	94	36-164%	---	---	
Acrylonitrile	1190	62.5	125	ug/kg dry	50	1250	ND	95	65-134%	---	---	
Benzene	1350	6.25	12.5	ug/kg dry	50	1250	ND	108	77-121%	---	---	
Bromobenzene	1320	15.6	31.3	ug/kg dry	50	1250	ND	106	78-121%	---	---	
Bromochloromethane	1290	31.3	62.5	ug/kg dry	50	1250	ND	103	78-125%	---	---	
Bromodichloromethane	1220	31.3	62.5	ug/kg dry	50	1250	ND	98	75-127%	---	---	
Bromoform	1270	62.5	125	ug/kg dry	50	1250	ND	102	67-132%	---	---	
Bromomethane	1730	625	625	ug/kg dry	50	1250	ND	138	53-143%	---	---	Q-54h
2-Butanone (MEK)	2210	313	625	ug/kg dry	50	2500	ND	89	51-148%	---	---	
n-Butylbenzene	1500	31.3	62.5	ug/kg dry	50	1250	ND	120	70-128%	---	---	
sec-Butylbenzene	1410	31.3	62.5	ug/kg dry	50	1250	ND	112	73-126%	---	---	
tert-Butylbenzene	1300	31.3	62.5	ug/kg dry	50	1250	ND	104	73-125%	---	---	

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0810 - EPA 5035A						Soil						
Matrix Spike (23D0810-MS1)						Prepared: 04/18/23 12:00 Analyzed: 04/20/23 15:48						
QC Source Sample: Non-SDG (A3D1336-01)												
Carbon disulfide	1600	313	625	ug/kg dry	50	1250	ND	128	63-132%	---	---	Q-54b
Carbon tetrachloride	1360	31.3	62.5	ug/kg dry	50	1250	ND	109	70-135%	---	---	
Chlorobenzene	1330	15.6	31.3	ug/kg dry	50	1250	ND	106	79-120%	---	---	
Chloroethane	1810	313	625	ug/kg dry	50	1250	ND	145	59-139%	---	---	Q-54d
Chloroform	1340	31.3	62.5	ug/kg dry	50	1250	ND	107	78-123%	---	---	
Chloromethane	1330	156	313	ug/kg dry	50	1250	ND	106	50-136%	---	---	
2-Chlorotoluene	1350	31.3	62.5	ug/kg dry	50	1250	ND	108	75-122%	---	---	
4-Chlorotoluene	1270	31.3	62.5	ug/kg dry	50	1250	ND	102	72-124%	---	---	
Dibromochloromethane	1370	62.5	125	ug/kg dry	50	1250	ND	110	74-126%	---	---	
1,2-Dibromo-3-chloropropane	1120	156	313	ug/kg dry	50	1250	ND	89	61-132%	---	---	
1,2-Dibromoethane (EDB)	1270	31.3	62.5	ug/kg dry	50	1250	ND	102	78-122%	---	---	
Dibromomethane	1330	31.3	62.5	ug/kg dry	50	1250	ND	107	78-125%	---	---	
1,2-Dichlorobenzene	1290	15.6	31.3	ug/kg dry	50	1250	ND	103	78-121%	---	---	
1,3-Dichlorobenzene	1290	15.6	31.3	ug/kg dry	50	1250	ND	103	77-121%	---	---	
1,4-Dichlorobenzene	1290	15.6	31.3	ug/kg dry	50	1250	ND	103	75-120%	---	---	
Dichlorodifluoromethane	1730	62.5	125	ug/kg dry	50	1250	ND	138	29-149%	---	---	Q-54e
1,1-Dichloroethane	1310	15.6	31.3	ug/kg dry	50	1250	ND	105	76-125%	---	---	
1,2-Dichloroethane (EDC)	1290	15.6	31.3	ug/kg dry	50	1250	ND	103	73-128%	---	---	
1,1-Dichloroethene	1670	15.6	31.3	ug/kg dry	50	1250	ND	133	70-131%	---	---	Q-54a
cis-1,2-Dichloroethene	1270	15.6	31.3	ug/kg dry	50	1250	ND	101	77-123%	---	---	
trans-1,2-Dichloroethene	1310	15.6	31.3	ug/kg dry	50	1250	ND	105	74-125%	---	---	
1,2-Dichloropropane	1320	15.6	31.3	ug/kg dry	50	1250	ND	105	76-123%	---	---	
1,3-Dichloropropane	1270	31.3	62.5	ug/kg dry	50	1250	ND	102	77-121%	---	---	
2,2-Dichloropropane	1170	31.3	62.5	ug/kg dry	50	1250	ND	94	67-133%	---	---	
1,1-Dichloropropene	1420	31.3	62.5	ug/kg dry	50	1250	ND	114	76-125%	---	---	
cis-1,3-Dichloropropene	1210	31.3	62.5	ug/kg dry	50	1250	ND	97	74-126%	---	---	
trans-1,3-Dichloropropene	1200	31.3	62.5	ug/kg dry	50	1250	ND	96	71-130%	---	---	
Ethylbenzene	1320	15.6	31.3	ug/kg dry	50	1250	ND	105	76-122%	---	---	
Hexachlorobutadiene	2060	62.5	125	ug/kg dry	50	1250	ND	165	61-135%	---	---	Q-01
2-Hexanone	2100	313	625	ug/kg dry	50	2500	ND	84	53-145%	---	---	
Isopropylbenzene	1300	31.3	62.5	ug/kg dry	50	1250	ND	104	68-134%	---	---	
4-Isopropyltoluene	1430	31.3	62.5	ug/kg dry	50	1250	ND	114	73-127%	---	---	
Methylene chloride	1410	313	625	ug/kg dry	50	1250	ND	112	70-128%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0810 - EPA 5035A						Soil						
Matrix Spike (23D0810-MS1)			Prepared: 04/18/23 12:00 Analyzed: 04/20/23 15:48									
QC Source Sample: Non-SDG (A3D1336-01)												
4-Methyl-2-pentanone (MiBK)	2210	313	625	ug/kg dry	50	2500	ND	89	65-135%	---	---	
Methyl tert-butyl ether (MTBE)	1240	31.3	62.5	ug/kg dry	50	1250	ND	99	73-125%	---	---	
Naphthalene	1310	62.5	125	ug/kg dry	50	1250	ND	105	62-129%	---	---	
n-Propylbenzene	1360	15.6	31.3	ug/kg dry	50	1250	ND	108	73-125%	---	---	
Styrene	1290	31.3	62.5	ug/kg dry	50	1250	ND	103	76-124%	---	---	
1,1,1,2-Tetrachloroethane	1260	15.6	31.3	ug/kg dry	50	1250	ND	101	78-125%	---	---	
1,1,2,2-Tetrachloroethane	1180	31.3	62.5	ug/kg dry	50	1250	ND	94	70-124%	---	---	
Tetrachloroethene (PCE)	1370	15.6	31.3	ug/kg dry	50	1250	ND	109	73-128%	---	---	
Toluene	1240	31.3	62.5	ug/kg dry	50	1250	ND	100	77-121%	---	---	
1,2,3-Trichlorobenzene	1370	156	313	ug/kg dry	50	1250	ND	110	66-130%	---	---	
1,2,4-Trichlorobenzene	1410	156	313	ug/kg dry	50	1250	ND	113	67-129%	---	---	
1,1,1-Trichloroethane	1360	15.6	31.3	ug/kg dry	50	1250	ND	109	73-130%	---	---	
1,1,2-Trichloroethane	1320	15.6	31.3	ug/kg dry	50	1250	ND	106	78-121%	---	---	
Trichloroethene (TCE)	1460	15.6	31.3	ug/kg dry	50	1250	ND	117	77-123%	---	---	
Trichlorofluoromethane	2620	62.5	125	ug/kg dry	50	1250	ND	209	62-140%	---	---	Q-54c
1,2,3-Trichloropropane	1260	31.3	62.5	ug/kg dry	50	1250	ND	101	73-125%	---	---	
1,2,4-Trimethylbenzene	1350	31.3	62.5	ug/kg dry	50	1250	ND	108	75-123%	---	---	
1,3,5-Trimethylbenzene	1360	31.3	62.5	ug/kg dry	50	1250	ND	109	73-124%	---	---	
Vinyl chloride	1480	15.6	31.3	ug/kg dry	50	1250	ND	118	56-135%	---	---	
m,p-Xylene	2640	31.3	62.5	ug/kg dry	50	2500	ND	106	77-124%	---	---	
o-Xylene	1310	15.6	31.3	ug/kg dry	50	1250	ND	105	77-123%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>79-120 %</i>		<i>"</i>						

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0858 - EPA 5035A						Soil						
Blank (23D0858-BLK1)			Prepared: 04/21/23 08:35 Analyzed: 04/21/23 11:17									
<u>5035A/8260D</u>												
Acetone	ND	500	1000	ug/kg wet	50	---	---	---	---	---	---	
Acrylonitrile	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Benzene	ND	5.00	10.0	ug/kg wet	50	---	---	---	---	---	---	
Bromobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Bromochloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromodichloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromoform	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Bromomethane	ND	500	500	ug/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
n-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Carbon disulfide	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Chloroethane	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chloromethane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromochloromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromomethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	----------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0858 - EPA 5035A						Soil						
Blank (23D0858-BLK1)			Prepared: 04/21/23 08:35 Analyzed: 04/21/23 11:17									
1,2-Dichloropropane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Methylene chloride	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Styrene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 101 % Limits: 80-120 % Dilution: 1x

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0858 - EPA 5035A						Soil						
Blank (23D0858-BLK1)						Prepared: 04/21/23 08:35 Analyzed: 04/21/23 11:17						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>79-120 %</i>		<i>"</i>						
LCS (23D0858-BS1)						Prepared: 04/21/23 08:35 Analyzed: 04/21/23 10:21						
5035A/8260D												
Acetone	1960	500	1000	ug/kg wet	50	2000	---	98	80-120%	---	---	
Acrylonitrile	1000	50.0	100	ug/kg wet	50	1000	---	100	80-120%	---	---	
Benzene	1010	5.00	10.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Bromobenzene	1040	12.5	25.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Bromochloromethane	1080	25.0	50.0	ug/kg wet	50	1000	---	108	80-120%	---	---	
Bromodichloromethane	1110	25.0	50.0	ug/kg wet	50	1000	---	111	80-120%	---	---	
Bromoform	1250	50.0	100	ug/kg wet	50	1000	---	125	80-120%	---	---	Q-56
Bromomethane	1050	500	500	ug/kg wet	50	1000	---	105	80-120%	---	---	
2-Butanone (MEK)	1940	250	500	ug/kg wet	50	2000	---	97	80-120%	---	---	
n-Butylbenzene	1080	25.0	50.0	ug/kg wet	50	1000	---	108	80-120%	---	---	
sec-Butylbenzene	1080	25.0	50.0	ug/kg wet	50	1000	---	108	80-120%	---	---	
tert-Butylbenzene	1020	25.0	50.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
Carbon disulfide	1150	250	500	ug/kg wet	50	1000	---	115	80-120%	---	---	
Carbon tetrachloride	1210	25.0	50.0	ug/kg wet	50	1000	---	121	80-120%	---	---	Q-56
Chlorobenzene	1030	12.5	25.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
Chloroethane	1150	250	500	ug/kg wet	50	1000	---	115	80-120%	---	---	
Chloroform	1050	25.0	50.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
Chloromethane	994	125	250	ug/kg wet	50	1000	---	99	80-120%	---	---	
2-Chlorotoluene	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
4-Chlorotoluene	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Dibromochloromethane	1240	50.0	100	ug/kg wet	50	1000	---	124	80-120%	---	---	Q-56
1,2-Dibromo-3-chloropropane	1120	125	250	ug/kg wet	50	1000	---	112	80-120%	---	---	
1,2-Dibromoethane (EDB)	1100	25.0	50.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
Dibromomethane	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,2-Dichlorobenzene	1040	12.5	25.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,3-Dichlorobenzene	1050	12.5	25.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
1,4-Dichlorobenzene	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
Dichlorodifluoromethane	1240	50.0	100	ug/kg wet	50	1000	---	124	80-120%	---	---	Q-56
1,1-Dichloroethane	1080	12.5	25.0	ug/kg wet	50	1000	---	108	80-120%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0858 - EPA 5035A						Soil						
LCS (23D0858-BS1)			Prepared: 04/21/23 08:35 Analyzed: 04/21/23 10:21									
1,2-Dichloroethane (EDC)	1100	12.5	25.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
1,1-Dichloroethene	1170	12.5	25.0	ug/kg wet	50	1000	---	117	80-120%	---	---	
cis-1,2-Dichloroethene	1060	12.5	25.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
trans-1,2-Dichloroethene	1070	12.5	25.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
1,2-Dichloropropane	1050	12.5	25.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
1,3-Dichloropropane	1050	25.0	50.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
2,2-Dichloropropane	1150	25.0	50.0	ug/kg wet	50	1000	---	115	80-120%	---	---	
1,1-Dichloropropene	1080	25.0	50.0	ug/kg wet	50	1000	---	108	80-120%	---	---	
cis-1,3-Dichloropropene	1080	25.0	50.0	ug/kg wet	50	1000	---	108	80-120%	---	---	
trans-1,3-Dichloropropene	1160	25.0	50.0	ug/kg wet	50	1000	---	116	80-120%	---	---	
Ethylbenzene	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
Hexachlorobutadiene	1080	50.0	100	ug/kg wet	50	1000	---	108	80-120%	---	---	
2-Hexanone	1920	250	500	ug/kg wet	50	2000	---	96	80-120%	---	---	
Isopropylbenzene	1060	25.0	50.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
4-Isopropyltoluene	1080	25.0	50.0	ug/kg wet	50	1000	---	108	80-120%	---	---	
Methylene chloride	1040	250	500	ug/kg wet	50	1000	---	104	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	1910	250	500	ug/kg wet	50	2000	---	96	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Naphthalene	954	50.0	100	ug/kg wet	50	1000	---	95	80-120%	---	---	
n-Propylbenzene	1050	12.5	25.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
Styrene	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,1,1,2-Tetrachloroethane	1110	12.5	25.0	ug/kg wet	50	1000	---	111	80-120%	---	---	
1,1,2,2-Tetrachloroethane	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Tetrachloroethene (PCE)	1100	12.5	25.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
Toluene	1020	25.0	50.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
1,2,3-Trichlorobenzene	1040	125	250	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,2,4-Trichlorobenzene	1020	125	250	ug/kg wet	50	1000	---	102	80-120%	---	---	
1,1,1-Trichloroethane	1120	12.5	25.0	ug/kg wet	50	1000	---	112	80-120%	---	---	
1,1,2-Trichloroethane	1040	12.5	25.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Trichloroethene (TCE)	1080	12.5	25.0	ug/kg wet	50	1000	---	108	80-120%	---	---	
Trichlorofluoromethane	1250	50.0	100	ug/kg wet	50	1000	---	125	80-120%	---	---	Q-56
1,2,3-Trichloropropane	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,2,4-Trimethylbenzene	1070	25.0	50.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
1,3,5-Trimethylbenzene	1070	25.0	50.0	ug/kg wet	50	1000	---	107	80-120%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0858 - EPA 5035A						Soil						
LCS (23D0858-BS1)						Prepared: 04/21/23 08:35 Analyzed: 04/21/23 10:21						
Vinyl chloride	1160	12.5	25.0	ug/kg wet	50	1000	---	116	80-120%	---	---	
m,p-Xylene	2090	25.0	50.0	ug/kg wet	50	2000	---	105	80-120%	---	---	
o-Xylene	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (23D0858-DUP1)						Prepared: 04/20/23 14:28 Analyzed: 04/21/23 12:08						
QC Source Sample: Non-SDG (A3D1419-01)												
Acetone	ND	4430	8860	ug/kg dry	200	---	ND	---	---	---	30%	
Acrylonitrile	ND	443	886	ug/kg dry	200	---	ND	---	---	---	30%	
Benzene	ND	44.3	88.6	ug/kg dry	200	---	ND	---	---	---	30%	
Bromobenzene	ND	111	221	ug/kg dry	200	---	ND	---	---	---	30%	
Bromochloromethane	ND	221	443	ug/kg dry	200	---	ND	---	---	---	30%	
Bromodichloromethane	ND	221	443	ug/kg dry	200	---	ND	---	---	---	30%	
Bromoform	ND	443	886	ug/kg dry	200	---	ND	---	---	---	30%	
Bromomethane	ND	4430	4430	ug/kg dry	200	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	2210	4430	ug/kg dry	200	---	ND	---	---	---	30%	
n-Butylbenzene	5050	221	443	ug/kg dry	200	---	5460	---	---	8	30%	M-02
sec-Butylbenzene	1450	221	443	ug/kg dry	200	---	1520	---	---	4	30%	
tert-Butylbenzene	ND	221	443	ug/kg dry	200	---	ND	---	---	---	30%	
Carbon disulfide	ND	2210	4430	ug/kg dry	200	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	221	443	ug/kg dry	200	---	ND	---	---	---	30%	
Chlorobenzene	ND	111	221	ug/kg dry	200	---	ND	---	---	---	30%	
Chloroethane	ND	2210	4430	ug/kg dry	200	---	ND	---	---	---	30%	
Chloroform	ND	221	443	ug/kg dry	200	---	ND	---	---	---	30%	
Chloromethane	ND	1110	2210	ug/kg dry	200	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	221	443	ug/kg dry	200	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	221	443	ug/kg dry	200	---	ND	---	---	---	30%	
Dibromochloromethane	ND	443	886	ug/kg dry	200	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	1110	2210	ug/kg dry	200	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	221	443	ug/kg dry	200	---	ND	---	---	---	30%	
Dibromomethane	ND	221	443	ug/kg dry	200	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	111	221	ug/kg dry	200	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0858 - EPA 5035A						Soil						
Duplicate (23D0858-DUP1)			Prepared: 04/20/23 14:28 Analyzed: 04/21/23 12:08									
QC Source Sample: Non-SDG (A3D1419-01)												
1,3-Dichlorobenzene	ND	111	221	ug/kg dry	200	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	111	221	ug/kg dry	200	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	443	886	ug/kg dry	200	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	111	221	ug/kg dry	200	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	111	221	ug/kg dry	200	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	111	221	ug/kg dry	200	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	111	221	ug/kg dry	200	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	111	221	ug/kg dry	200	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	111	221	ug/kg dry	200	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	221	443	ug/kg dry	200	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	221	443	ug/kg dry	200	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	221	443	ug/kg dry	200	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	221	443	ug/kg dry	200	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	221	443	ug/kg dry	200	---	ND	---	---	---	30%	
Ethylbenzene	292	111	221	ug/kg dry	200	---	310	---	---	6	30%	
Hexachlorobutadiene	ND	443	886	ug/kg dry	200	---	ND	---	---	---	30%	
2-Hexanone	ND	2210	4430	ug/kg dry	200	---	ND	---	---	---	30%	
Isopropylbenzene	301	221	443	ug/kg dry	200	---	310	---	---	3	30%	J
4-Isopropyltoluene	2130	221	443	ug/kg dry	200	---	2230	---	---	5	30%	M-02
Methylene chloride	ND	2210	4430	ug/kg dry	200	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	2210	4430	ug/kg dry	200	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	221	443	ug/kg dry	200	---	ND	---	---	---	30%	
Naphthalene	3810	443	886	ug/kg dry	200	---	4100	---	---	7	30%	M-02
n-Propylbenzene	744	111	221	ug/kg dry	200	---	793	---	---	6	30%	
Styrene	ND	221	443	ug/kg dry	200	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	111	221	ug/kg dry	200	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	221	443	ug/kg dry	200	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	111	221	ug/kg dry	200	---	ND	---	---	---	30%	
Toluene	ND	443	443	ug/kg dry	200	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	1110	2210	ug/kg dry	200	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	1110	2210	ug/kg dry	200	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	111	221	ug/kg dry	200	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	886	886	ug/kg dry	200	---	ND	---	---	---	30%	R-02

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0858 - EPA 5035A						Soil						
Duplicate (23D0858-DUP1)			Prepared: 04/20/23 14:28 Analyzed: 04/21/23 12:08									
QC Source Sample: Non-SDG (A3D1419-01)												
Trichloroethene (TCE)	ND	111	221	ug/kg dry	200	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	443	886	ug/kg dry	200	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	443	443	ug/kg dry	200	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	11200	221	443	ug/kg dry	200	---	11600	---	---	3	30%	
1,3,5-Trimethylbenzene	9360	221	443	ug/kg dry	200	---	9660	---	---	3	30%	
Vinyl chloride	ND	111	221	ug/kg dry	200	---	ND	---	---	---	30%	
m,p-Xylene	2770	221	443	ug/kg dry	200	---	2860	---	---	3	30%	
o-Xylene	3520	111	221	ug/kg dry	200	---	3640	---	---	3	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 105 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>101 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (23D0858-DUP2)			Prepared: 04/14/23 12:30 Analyzed: 04/21/23 18:09									
QC Source Sample: Non-SDG (A3D1230-06)												
Acetone	ND	6530	13100	ug/kg dry	500	---	ND	---	---	---	30%	
Acrylonitrile	ND	653	1310	ug/kg dry	500	---	ND	---	---	---	30%	
Benzene	84.9	65.3	131	ug/kg dry	500	---	84.9	---	---	0	30%	J
Bromobenzene	ND	163	327	ug/kg dry	500	---	ND	---	---	---	30%	
Bromochloromethane	ND	327	653	ug/kg dry	500	---	ND	---	---	---	30%	
Bromodichloromethane	ND	327	653	ug/kg dry	500	---	ND	---	---	---	30%	
Bromoform	ND	653	1310	ug/kg dry	500	---	ND	---	---	---	30%	
Bromomethane	ND	6530	6530	ug/kg dry	500	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	3270	6530	ug/kg dry	500	---	ND	---	---	---	30%	
n-Butylbenzene	1880	327	653	ug/kg dry	500	---	1990	---	---	5	30%	M-02
sec-Butylbenzene	425	327	653	ug/kg dry	500	---	470	---	---	10	30%	J
tert-Butylbenzene	ND	327	653	ug/kg dry	500	---	ND	---	---	---	30%	
Carbon disulfide	ND	3270	6530	ug/kg dry	500	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	327	653	ug/kg dry	500	---	ND	---	---	---	30%	
Chlorobenzene	ND	163	327	ug/kg dry	500	---	ND	---	---	---	30%	
Chloroethane	ND	3270	6530	ug/kg dry	500	---	ND	---	---	---	30%	
Chloroform	ND	327	653	ug/kg dry	500	---	ND	---	---	---	30%	
Chloromethane	ND	1630	3270	ug/kg dry	500	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	327	653	ug/kg dry	500	---	ND	---	---	---	30%	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0858 - EPA 5035A						Soil						
Duplicate (23D0858-DUP2)			Prepared: 04/14/23 12:30 Analyzed: 04/21/23 18:09									
QC Source Sample: Non-SDG (A3D1230-06)												
4-Chlorotoluene	ND	327	653	ug/kg dry	500	---	ND	---	---	---	30%	
Dibromochloromethane	ND	653	1310	ug/kg dry	500	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	1630	3270	ug/kg dry	500	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	327	653	ug/kg dry	500	---	ND	---	---	---	30%	
Dibromomethane	ND	327	653	ug/kg dry	500	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	163	327	ug/kg dry	500	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	163	327	ug/kg dry	500	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	163	327	ug/kg dry	500	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	653	1310	ug/kg dry	500	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	163	327	ug/kg dry	500	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	163	327	ug/kg dry	500	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	163	327	ug/kg dry	500	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	163	327	ug/kg dry	500	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	163	327	ug/kg dry	500	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	163	327	ug/kg dry	500	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	327	653	ug/kg dry	500	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	327	653	ug/kg dry	500	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	327	653	ug/kg dry	500	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	327	653	ug/kg dry	500	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	327	653	ug/kg dry	500	---	ND	---	---	---	30%	
Ethylbenzene	1620	163	327	ug/kg dry	500	---	1730	---	---	7	30%	
Hexachlorobutadiene	ND	653	1310	ug/kg dry	500	---	ND	---	---	---	30%	
2-Hexanone	ND	3270	6530	ug/kg dry	500	---	ND	---	---	---	30%	
Isopropylbenzene	699	327	653	ug/kg dry	500	---	745	---	---	6	30%	
4-Isopropyltoluene	ND	327	653	ug/kg dry	500	---	ND	---	---	---	30%	
Methylene chloride	ND	3270	6530	ug/kg dry	500	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	3270	6530	ug/kg dry	500	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	327	653	ug/kg dry	500	---	ND	---	---	---	30%	
Naphthalene	4940	653	1310	ug/kg dry	500	---	4930	---	---	0.1	30%	
n-Propylbenzene	3470	163	327	ug/kg dry	500	---	3700	---	---	6	30%	
Styrene	ND	327	653	ug/kg dry	500	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	163	327	ug/kg dry	500	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	327	653	ug/kg dry	500	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0858 - EPA 5035A						Soil						
Duplicate (23D0858-DUP2)			Prepared: 04/14/23 12:30 Analyzed: 04/21/23 18:09									
QC Source Sample: Non-SDG (A3D1230-06)												
Tetrachloroethene (PCE)	ND	163	327	ug/kg dry	500	---	ND	---	---	---	30%	
Toluene	503	327	653	ug/kg dry	500	---	542	---	---	8	30%	J
1,2,3-Trichlorobenzene	ND	1630	3270	ug/kg dry	500	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	1630	3270	ug/kg dry	500	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	163	327	ug/kg dry	500	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	163	327	ug/kg dry	500	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	163	327	ug/kg dry	500	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	653	1310	ug/kg dry	500	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	327	653	ug/kg dry	500	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	8720	327	653	ug/kg dry	500	---	9140	---	---	5	30%	
1,3,5-Trimethylbenzene	1980	327	653	ug/kg dry	500	---	2100	---	---	6	30%	
Vinyl chloride	ND	163	327	ug/kg dry	500	---	ND	---	---	---	30%	
m,p-Xylene	2080	327	653	ug/kg dry	500	---	2200	---	---	5	30%	
o-Xylene	222	163	327	ug/kg dry	500	---	222	---	---	0	30%	J
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 106 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>102 %</i>		<i>79-120 %</i>		<i>"</i>						

Matrix Spike (23D0858-MS1)			Prepared: 04/17/23 10:00 Analyzed: 04/21/23 14:43									
QC Source Sample: Non-SDG (A3D1271-01)												
5035A/8260D												
Acetone	23700	6410	12800	ug/kg dry	500	25600	ND	93	36-164%	---	---	
Acrylonitrile	12500	641	1280	ug/kg dry	500	12800	ND	97	65-134%	---	---	
Benzene	14000	64.1	128	ug/kg dry	500	12800	506	105	77-121%	---	---	
Bromobenzene	13800	160	320	ug/kg dry	500	12800	ND	108	78-121%	---	---	
Bromochloromethane	12900	320	641	ug/kg dry	500	12800	ND	101	78-125%	---	---	
Bromodichloromethane	13900	320	641	ug/kg dry	500	12800	ND	108	75-127%	---	---	
Bromoform	15600	641	1280	ug/kg dry	500	12800	ND	122	67-132%	---	---	Q-54g
Bromomethane	15500	6410	6410	ug/kg dry	500	12800	ND	121	53-143%	---	---	
2-Butanone (MEK)	23900	3200	6410	ug/kg dry	500	25600	ND	93	51-148%	---	---	
n-Butylbenzene	27100	320	641	ug/kg dry	500	12800	12900	111	70-128%	---	---	
sec-Butylbenzene	20300	320	641	ug/kg dry	500	12800	5610	115	73-126%	---	---	
tert-Butylbenzene	13600	320	641	ug/kg dry	500	12800	ND	106	73-125%	---	---	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0858 - EPA 5035A						Soil						
Matrix Spike (23D0858-MS1)			Prepared: 04/17/23 10:00 Analyzed: 04/21/23 14:43									
QC Source Sample: Non-SDG (A3D1271-01)												
Carbon disulfide	14500	3200	6410	ug/kg dry	500	12800	ND	113	63-132%	---	---	
Carbon tetrachloride	15800	320	641	ug/kg dry	500	12800	ND	123	70-135%	---	---	Q-54
Chlorobenzene	13600	160	320	ug/kg dry	500	12800	ND	106	79-120%	---	---	
Chloroethane	13700	3200	6410	ug/kg dry	500	12800	ND	107	59-139%	---	---	
Chloroform	13500	320	641	ug/kg dry	500	12800	ND	105	78-123%	---	---	
Chloromethane	12100	1600	3200	ug/kg dry	500	12800	ND	94	50-136%	---	---	
2-Chlorotoluene	14200	320	641	ug/kg dry	500	12800	ND	111	75-122%	---	---	
4-Chlorotoluene	13000	320	641	ug/kg dry	500	12800	ND	102	72-124%	---	---	
Dibromochloromethane	15200	641	1280	ug/kg dry	500	12800	ND	119	74-126%	---	---	Q-54f
1,2-Dibromo-3-chloropropane	14700	1600	3200	ug/kg dry	500	12800	ND	115	61-132%	---	---	
1,2-Dibromoethane (EDB)	14000	320	641	ug/kg dry	500	12800	ND	109	78-122%	---	---	
Dibromomethane	13700	320	641	ug/kg dry	500	12800	ND	107	78-125%	---	---	
1,2-Dichlorobenzene	13800	160	320	ug/kg dry	500	12800	ND	108	78-121%	---	---	
1,3-Dichlorobenzene	13900	160	320	ug/kg dry	500	12800	ND	108	77-121%	---	---	
1,4-Dichlorobenzene	13300	160	320	ug/kg dry	500	12800	ND	104	75-120%	---	---	
Dichlorodifluoromethane	15400	641	1280	ug/kg dry	500	12800	ND	120	29-149%	---	---	Q-54f
1,1-Dichloroethane	13700	160	320	ug/kg dry	500	12800	ND	107	76-125%	---	---	
1,2-Dichloroethane (EDC)	13100	160	320	ug/kg dry	500	12800	ND	102	73-128%	---	---	
1,1-Dichloroethene	14500	160	320	ug/kg dry	500	12800	ND	113	70-131%	---	---	
cis-1,2-Dichloroethene	13500	160	320	ug/kg dry	500	12800	ND	105	77-123%	---	---	
trans-1,2-Dichloroethene	13900	160	320	ug/kg dry	500	12800	ND	109	74-125%	---	---	
1,2-Dichloropropane	13800	160	320	ug/kg dry	500	12800	ND	107	76-123%	---	---	
1,3-Dichloropropane	12900	320	641	ug/kg dry	500	12800	ND	100	77-121%	---	---	
2,2-Dichloropropane	13800	320	641	ug/kg dry	500	12800	ND	108	67-133%	---	---	
1,1-Dichloropropene	14600	320	641	ug/kg dry	500	12800	ND	114	76-125%	---	---	
cis-1,3-Dichloropropene	13100	320	641	ug/kg dry	500	12800	ND	102	74-126%	---	---	
trans-1,3-Dichloropropene	13500	320	641	ug/kg dry	500	12800	ND	105	71-130%	---	---	
Ethylbenzene	26600	160	320	ug/kg dry	500	12800	13600	101	76-122%	---	---	
Hexachlorobutadiene	17300	641	1280	ug/kg dry	500	12800	ND	135	61-135%	---	---	
2-Hexanone	22400	3200	6410	ug/kg dry	500	25600	ND	87	53-145%	---	---	
Isopropylbenzene	18500	320	641	ug/kg dry	500	12800	4110	113	68-134%	---	---	
4-Isopropyltoluene	26500	320	641	ug/kg dry	500	12800	3360	180	73-127%	---	---	Q-01
Methylene chloride	14100	3200	6410	ug/kg dry	500	12800	ND	110	70-128%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0858 - EPA 5035A						Soil						
Matrix Spike (23D0858-MS1)			Prepared: 04/17/23 10:00 Analyzed: 04/21/23 14:43									
QC Source Sample: Non-SDG (A3D1271-01)												
4-Methyl-2-pentanone (MiBK)	25400	3200	6410	ug/kg dry	500	25600	ND	99	65-135%	---	---	
Methyl tert-butyl ether (MTBE)	13200	320	641	ug/kg dry	500	12800	ND	103	73-125%	---	---	
Naphthalene	25200	641	1280	ug/kg dry	500	12800	11800	105	62-129%	---	---	
n-Propylbenzene	24700	160	320	ug/kg dry	500	12800	11300	104	73-125%	---	---	
Styrene	14200	320	641	ug/kg dry	500	12800	ND	111	76-124%	---	---	
1,1,1,2-Tetrachloroethane	14000	160	320	ug/kg dry	500	12800	ND	109	78-125%	---	---	
1,1,2,2-Tetrachloroethane	12400	320	641	ug/kg dry	500	12800	ND	97	70-124%	---	---	
Tetrachloroethene (PCE)	15100	160	320	ug/kg dry	500	12800	ND	118	73-128%	---	---	
Toluene	13500	320	641	ug/kg dry	500	12800	589	101	77-121%	---	---	
1,2,3-Trichlorobenzene	14400	1600	3200	ug/kg dry	500	12800	ND	112	66-130%	---	---	
1,2,4-Trichlorobenzene	14100	1600	3200	ug/kg dry	500	12800	ND	110	67-129%	---	---	
1,1,1-Trichloroethane	14500	160	320	ug/kg dry	500	12800	ND	113	73-130%	---	---	
1,1,2-Trichloroethane	15100	160	320	ug/kg dry	500	12800	2040	102	78-121%	---	---	
Trichloroethene (TCE)	15400	160	320	ug/kg dry	500	12800	ND	120	77-123%	---	---	
Trichlorofluoromethane	14700	641	1280	ug/kg dry	500	12800	ND	115	62-140%	---	---	Q-54g
1,2,3-Trichloropropane	13100	320	641	ug/kg dry	500	12800	ND	99	73-125%	---	---	
1,2,4-Trimethylbenzene	80900	320	641	ug/kg dry	500	12800	69400	90	75-123%	---	---	
1,3,5-Trimethylbenzene	33700	320	641	ug/kg dry	500	12800	19800	108	73-124%	---	---	
Vinyl chloride	14800	160	320	ug/kg dry	500	12800	ND	115	56-135%	---	---	
m,p-Xylene	83000	320	641	ug/kg dry	500	25600	57900	98	77-124%	---	---	
o-Xylene	36500	160	320	ug/kg dry	500	12800	23500	101	77-123%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 107 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>102 %</i>		<i>79-120 %</i>		<i>"</i>						

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
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QUALITY CONTROL (QC) SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0867 - EPA 1311/5030B TCLP Volatiles						Water						
Blank (23D0867-BLK1)						Prepared: 04/21/23 09:31 Analyzed: 04/22/23 10:28						TCLP
<u>1311/8260D</u>												
Benzene	ND	6.25	12.5	ug/L	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/L	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 94 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>105 %</i>		<i>80-120 %</i>		<i>"</i>						

LCS (23D0867-BS1)						Prepared: 04/21/23 09:31 Analyzed: 04/22/23 09:34						TCLP
<u>1311/8260D</u>												
Benzene	906	6.25	12.5	ug/L	50	1000	---	91	80-120%	---	---	
2-Butanone (MEK)	2090	250	500	ug/L	50	2000	---	104	80-120%	---	---	
Carbon tetrachloride	1060	25.0	50.0	ug/L	50	1000	---	106	80-120%	---	---	
Chlorobenzene	998	12.5	25.0	ug/L	50	1000	---	100	80-120%	---	---	
Chloroform	960	25.0	50.0	ug/L	50	1000	---	96	80-120%	---	---	
1,4-Dichlorobenzene	974	12.5	25.0	ug/L	50	1000	---	97	80-120%	---	---	
1,1-Dichloroethene	976	12.5	25.0	ug/L	50	1000	---	98	80-120%	---	---	
1,2-Dichloroethane (EDC)	1100	12.5	25.0	ug/L	50	1000	---	110	80-120%	---	---	
Tetrachloroethene (PCE)	947	12.5	25.0	ug/L	50	1000	---	95	80-120%	---	---	
Trichloroethene (TCE)	884	12.5	25.0	ug/L	50	1000	---	88	80-120%	---	---	
Vinyl chloride	823	12.5	25.0	ug/L	50	1000	---	82	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 93 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>89 %</i>		<i>80-120 %</i>		<i>"</i>						

Duplicate (23D0867-DUP1)						Prepared: 04/21/23 09:31 Analyzed: 04/22/23 11:22						COMP
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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
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QUALITY CONTROL (QC) SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23D0867 - EPA 1311/5030B TCLP Volatiles						Water							
Duplicate (23D0867-DUP1)			Prepared: 04/21/23 09:31 Analyzed: 04/22/23 11:22						COMP				
QC Source Sample: Non-SDG (A3D1191-04)													
Benzene	ND	6.25	12.5	ug/L	50	---	ND	---	---	---	30%		
2-Butanone (MEK)	ND	250	500	ug/L	50	---	ND	---	---	---	30%		
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%		
Chlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%		
Chloroform	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%		
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%		
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%		
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%		
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%		
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%		
Vinyl chloride	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%		
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 94 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>							
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>"</i>							
<i>4-Bromofluorobenzene (Surr)</i>		<i>104 %</i>		<i>80-120 %</i>		<i>"</i>							

Matrix Spike (23D0867-MS1)			Prepared: 04/21/23 09:31 Analyzed: 04/22/23 13:11						CONT				
QC Source Sample: FC-041623-2245 (A3D1359-01)													
1311/8260D													
Benzene	952	6.25	12.5	ug/L	50	1000	ND	95	79-120%	---	---		
2-Butanone (MEK)	2120	250	500	ug/L	50	2000	ND	106	56-143%	---	---		
Carbon tetrachloride	1170	25.0	50.0	ug/L	50	1000	ND	117	72-136%	---	---		
Chlorobenzene	1030	12.5	25.0	ug/L	50	1000	ND	103	80-120%	---	---		
Chloroform	998	25.0	50.0	ug/L	50	1000	ND	100	79-124%	---	---		
1,4-Dichlorobenzene	986	12.5	25.0	ug/L	50	1000	ND	99	79-120%	---	---		
1,1-Dichloroethene	1100	12.5	25.0	ug/L	50	1000	ND	110	71-131%	---	---		
1,2-Dichloroethane (EDC)	1140	12.5	25.0	ug/L	50	1000	ND	114	73-128%	---	---		
Tetrachloroethene (PCE)	1020	12.5	25.0	ug/L	50	1000	ND	102	74-129%	---	---		
Trichloroethene (TCE)	978	12.5	25.0	ug/L	50	1000	ND	98	79-123%	---	---		
Vinyl chloride	916	12.5	25.0	ug/L	50	1000	ND	92	58-137%	---	---		
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 94 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>							
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>							
<i>4-Bromofluorobenzene (Surr)</i>		<i>88 %</i>		<i>80-120 %</i>		<i>"</i>							

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ANALYTICAL REPORT

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 503-718-2323
 ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D1170 - EPA 3546						Solid						
Blank (23D1170-BLK1)			Prepared: 04/28/23 13:05 Analyzed: 04/28/23 22:36									
<u>EPA 8270E</u>												
Acenaphthene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Chrysene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Fluoranthene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Fluorene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
Naphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
Phenanthrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Pyrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Carbazole	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Dibenzofuran	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
2-Chlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
2-Methylphenol	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Nitrophenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
4-Nitrophenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Phenol	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D1170 - EPA 3546						Solid						
Blank (23D1170-BLK1)			Prepared: 04/28/23 13:05 Analyzed: 04/28/23 22:36									
2,3,5,6-Tetrachlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	20.0	40.0	ug/kg wet	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Diethylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Dimethylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Di-n-butylphthalate	16.0	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	J, B-02
Di-n-octyl phthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2,2'-Oxybis(1-Chloropropane)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Hexachloroethane	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Aniline	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
4-Chloroaniline	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
3-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
4-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
Nitrobenzene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Benzoic acid	ND	167	333	ug/kg wet	1	---	---	---	---	---	---	
Benzyl alcohol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Isophorone	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D1170 - EPA 3546						Solid						
Blank (23D1170-BLK1)			Prepared: 04/28/23 13:05 Analyzed: 04/28/23 22:36									
Azobenzene (1,2-DPH)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Ethylhexyl) adipate	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	Q-52
1,2-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
Pyridine	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 79 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 1x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>83 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>83 %</i>		<i>33-122 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>102 %</i>		<i>54-127 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>85 %</i>		<i>35-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>87 %</i>		<i>39-132 %</i>		<i>"</i>						

LCS (23D1170-BS1)			Prepared: 04/28/23 13:05 Analyzed: 04/28/23 23:10								Q-18	
EPA 8270E												
Acenaphthene	569	5.32	10.7	ug/kg wet	4	533	---	107	40-123%	---	---	
Acenaphthylene	593	5.32	10.7	ug/kg wet	4	533	---	111	32-132%	---	---	
Anthracene	595	5.32	10.7	ug/kg wet	4	533	---	111	47-123%	---	---	
Benz(a)anthracene	584	5.32	10.7	ug/kg wet	4	533	---	109	49-126%	---	---	
Benzo(a)pyrene	542	8.00	16.0	ug/kg wet	4	533	---	102	45-129%	---	---	
Benzo(b)fluoranthene	553	8.00	16.0	ug/kg wet	4	533	---	104	45-132%	---	---	
Benzo(k)fluoranthene	558	8.00	16.0	ug/kg wet	4	533	---	105	47-132%	---	---	
Benzo(g,h,i)perylene	442	5.32	10.7	ug/kg wet	4	533	---	83	43-134%	---	---	
Chrysene	596	5.32	10.7	ug/kg wet	4	533	---	112	50-124%	---	---	
Dibenz(a,h)anthracene	578	5.32	10.7	ug/kg wet	4	533	---	108	45-134%	---	---	
Fluoranthene	598	5.32	10.7	ug/kg wet	4	533	---	112	50-127%	---	---	
Fluorene	609	5.32	10.7	ug/kg wet	4	533	---	114	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	489	5.32	10.7	ug/kg wet	4	533	---	92	45-133%	---	---	
1-Methylnaphthalene	584	10.7	21.3	ug/kg wet	4	533	---	109	40-120%	---	---	
2-Methylnaphthalene	613	10.7	21.3	ug/kg wet	4	533	---	115	38-122%	---	---	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D1170 - EPA 3546						Solid						
LCS (23D1170-BS1)						Prepared: 04/28/23 13:05 Analyzed: 04/28/23 23:10						Q-18
Naphthalene	550	10.7	21.3	ug/kg wet	4	533	---	103	35-123%	---	---	
Phenanthrene	562	5.32	10.7	ug/kg wet	4	533	---	105	50-121%	---	---	
Pyrene	589	5.32	10.7	ug/kg wet	4	533	---	110	47-127%	---	---	
Carbazole	629	8.00	16.0	ug/kg wet	4	533	---	118	50-123%	---	---	
Dibenzofuran	609	5.32	10.7	ug/kg wet	4	533	---	114	44-120%	---	---	
2-Chlorophenol	590	26.7	53.2	ug/kg wet	4	533	---	111	34-121%	---	---	
4-Chloro-3-methylphenol	597	53.2	107	ug/kg wet	4	533	---	112	45-122%	---	---	
2,4-Dichlorophenol	627	26.7	53.2	ug/kg wet	4	533	---	118	40-122%	---	---	Q-41
2,4-Dimethylphenol	720	26.7	53.2	ug/kg wet	4	533	---	135	30-127%	---	---	Q-29, Q-41
2,4-Dinitrophenol	276	133	267	ug/kg wet	4	533	---	52	10-137%	---	---	
4,6-Dinitro-2-methylphenol	369	133	267	ug/kg wet	4	533	---	69	29-132%	---	---	
2-Methylphenol	590	13.3	26.7	ug/kg wet	4	533	---	111	32-122%	---	---	
3+4-Methylphenol(s)	569	13.3	26.7	ug/kg wet	4	533	---	107	34-120%	---	---	
2-Nitrophenol	593	53.2	107	ug/kg wet	4	533	---	111	36-123%	---	---	
4-Nitrophenol	551	53.2	107	ug/kg wet	4	533	---	103	30-132%	---	---	
Pentachlorophenol (PCP)	563	53.2	107	ug/kg wet	4	533	---	106	25-133%	---	---	
Phenol	595	10.7	21.3	ug/kg wet	4	533	---	112	34-121%	---	---	Q-41
2,3,4,6-Tetrachlorophenol	634	26.7	53.2	ug/kg wet	4	533	---	119	44-125%	---	---	
2,3,5,6-Tetrachlorophenol	630	26.7	53.2	ug/kg wet	4	533	---	118	40-120%	---	---	
2,4,5-Trichlorophenol	664	26.7	53.2	ug/kg wet	4	533	---	125	41-124%	---	---	Q-29, Q-41
2,4,6-Trichlorophenol	612	26.7	53.2	ug/kg wet	4	533	---	115	39-126%	---	---	
Bis(2-ethylhexyl)phthalate	592	80.0	160	ug/kg wet	4	533	---	111	51-133%	---	---	
Butyl benzyl phthalate	620	53.2	107	ug/kg wet	4	533	---	116	48-132%	---	---	
Diethylphthalate	581	53.2	107	ug/kg wet	4	533	---	109	50-124%	---	---	
Dimethylphthalate	595	53.2	107	ug/kg wet	4	533	---	112	48-124%	---	---	
Di-n-butylphthalate	609	53.2	107	ug/kg wet	4	533	---	114	51-128%	---	---	B-02
Di-n-octyl phthalate	560	53.2	107	ug/kg wet	4	533	---	105	45-140%	---	---	
N-Nitrosodimethylamine	407	13.3	26.7	ug/kg wet	4	533	---	76	23-120%	---	---	Q-31
N-Nitroso-di-n-propylamine	519	13.3	26.7	ug/kg wet	4	533	---	97	36-120%	---	---	
N-Nitrosodiphenylamine	598	13.3	26.7	ug/kg wet	4	533	---	112	38-127%	---	---	
Bis(2-Chloroethoxy) methane	510	13.3	26.7	ug/kg wet	4	533	---	96	36-121%	---	---	
Bis(2-Chloroethyl) ether	488	13.3	26.7	ug/kg wet	4	533	---	91	31-120%	---	---	
2,2'-Oxybis(1-Chloropropane)	423	13.3	26.7	ug/kg wet	4	533	---	79	39-120%	---	---	
Hexachlorobenzene	601	5.32	10.7	ug/kg wet	4	533	---	113	45-122%	---	---	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D1170 - EPA 3546						Solid						
LCS (23D1170-BS1)						Prepared: 04/28/23 13:05 Analyzed: 04/28/23 23:10						Q-18
Hexachlorobutadiene	577	13.3	26.7	ug/kg wet	4	533	---	108	32-123%	---	---	
Hexachlorocyclopentadiene	357	26.7	53.2	ug/kg wet	4	533	---	67	10-140%	---	---	
Hexachloroethane	507	13.3	26.7	ug/kg wet	4	533	---	95	28-120%	---	---	
2-Chloronaphthalene	593	5.32	10.7	ug/kg wet	4	533	---	111	41-120%	---	---	
1,2,4-Trichlorobenzene	575	13.3	26.7	ug/kg wet	4	533	---	108	34-120%	---	---	
4-Bromophenyl phenyl ether	628	13.3	26.7	ug/kg wet	4	533	---	118	46-124%	---	---	
4-Chlorophenyl phenyl ether	618	13.3	26.7	ug/kg wet	4	533	---	116	45-121%	---	---	
Aniline	416	26.7	53.2	ug/kg wet	4	533	---	78	10-120%	---	---	
4-Chloroaniline	440	13.3	26.7	ug/kg wet	4	533	---	82	17-120%	---	---	
2-Nitroaniline	621	107	213	ug/kg wet	4	533	---	116	44-127%	---	---	
3-Nitroaniline	660	107	213	ug/kg wet	4	533	---	124	33-120%	---	---	Q-29, Q-41
4-Nitroaniline	601	107	213	ug/kg wet	4	533	---	113	51-125%	---	---	
Nitrobenzene	518	53.2	107	ug/kg wet	4	533	---	97	34-122%	---	---	
2,4-Dinitrotoluene	616	53.2	107	ug/kg wet	4	533	---	116	48-126%	---	---	
2,6-Dinitrotoluene	601	53.2	107	ug/kg wet	4	533	---	113	46-124%	---	---	
Benzoic acid	873	668	668	ug/kg wet	4	1070	---	82	10-140%	---	---	
Benzyl alcohol	531	26.7	53.2	ug/kg wet	4	533	---	100	29-122%	---	---	
Isophorone	520	13.3	26.7	ug/kg wet	4	533	---	98	30-122%	---	---	
Azobenzene (1,2-DPH)	529	13.3	26.7	ug/kg wet	4	533	---	99	39-125%	---	---	
Bis(2-Ethylhexyl) adipate	592	133	267	ug/kg wet	4	533	---	111	61-121%	---	---	
3,3'-Dichlorobenzidine	2610	107	213	ug/kg wet	4	1070	---	245	22-121%	---	---	Q-29, Q-52
1,2-Dinitrobenzene	613	133	267	ug/kg wet	4	533	---	115	44-120%	---	---	
1,3-Dinitrobenzene	636	133	267	ug/kg wet	4	533	---	119	43-127%	---	---	Q-41
1,4-Dinitrobenzene	606	133	267	ug/kg wet	4	533	---	114	37-132%	---	---	
Pyridine	479	26.7	53.2	ug/kg wet	4	533	---	90	10-120%	---	---	
1,2-Dichlorobenzene	535	13.3	26.7	ug/kg wet	4	533	---	100	33-120%	---	---	
1,3-Dichlorobenzene	522	13.3	26.7	ug/kg wet	4	533	---	98	30-120%	---	---	
1,4-Dichlorobenzene	520	13.3	26.7	ug/kg wet	4	533	---	98	31-120%	---	---	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 96 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 4x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>108 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>105 %</i>		<i>33-122 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>119 %</i>		<i>54-127 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>104 %</i>		<i>35-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>127 %</i>		<i>39-132 %</i>		<i>"</i>						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23D1170 - EPA 3546							Solid						
Duplicate (23D1170-DUP3)			Prepared: 04/28/23 13:05 Analyzed: 05/02/23 02:37						PRO				
QC Source Sample: Non-SDG (A3D1330-05RE2)													
Acenaphthene	ND	131	131	ug/kg wet	50	---	ND	---	---	---	30%		
Acenaphthylene	ND	65.1	131	ug/kg wet	50	---	ND	---	---	---	30%		
Anthracene	ND	65.1	131	ug/kg wet	50	---	ND	---	---	---	30%		
Benz(a)anthracene	ND	65.1	131	ug/kg wet	50	---	ND	---	---	---	30%		
Benzo(a)pyrene	ND	97.8	196	ug/kg wet	50	---	ND	---	---	---	30%		
Benzo(b)fluoranthene	ND	97.8	196	ug/kg wet	50	---	ND	---	---	---	30%		
Benzo(k)fluoranthene	ND	97.8	196	ug/kg wet	50	---	ND	---	---	---	30%		
Benzo(g,h,i)perylene	ND	65.1	131	ug/kg wet	50	---	ND	---	---	---	30%		
Chrysene	ND	65.1	131	ug/kg wet	50	---	ND	---	---	---	30%		
Dibenz(a,h)anthracene	ND	65.1	131	ug/kg wet	50	---	ND	---	---	---	30%		
Fluoranthene	ND	65.1	131	ug/kg wet	50	---	ND	---	---	---	30%		
Fluorene	ND	171	171	ug/kg wet	50	---	ND	---	---	---	30%	R-02	
Indeno(1,2,3-cd)pyrene	ND	65.1	131	ug/kg wet	50	---	ND	---	---	---	30%		
1-Methylnaphthalene	180	131	261	ug/kg wet	50	---	203	---	---	12	30%	J	
2-Methylnaphthalene	131	131	261	ug/kg wet	50	---	151	---	---	14	30%	J	
Naphthalene	ND	131	261	ug/kg wet	50	---	ND	---	---	---	30%		
Phenanthrene	164	65.1	131	ug/kg wet	50	---	202	---	---	21	30%		
Pyrene	137	65.1	131	ug/kg wet	50	---	160	---	---	15	30%		
Carbazole	ND	97.8	196	ug/kg wet	50	---	ND	---	---	---	30%		
Dibenzofuran	ND	65.1	131	ug/kg wet	50	---	ND	---	---	---	30%		
2-Chlorophenol	ND	326	651	ug/kg wet	50	---	ND	---	---	---	30%		
4-Chloro-3-methylphenol	ND	651	1310	ug/kg wet	50	---	ND	---	---	---	30%		
2,4-Dichlorophenol	ND	326	651	ug/kg wet	50	---	ND	---	---	---	30%		
2,4-Dimethylphenol	ND	326	651	ug/kg wet	50	---	ND	---	---	---	30%		
2,4-Dinitrophenol	ND	1630	3260	ug/kg wet	50	---	ND	---	---	---	30%		
4,6-Dinitro-2-methylphenol	ND	1630	3260	ug/kg wet	50	---	ND	---	---	---	30%		
2-Methylphenol	ND	163	326	ug/kg wet	50	---	ND	---	---	---	30%		
3+4-Methylphenol(s)	ND	163	326	ug/kg wet	50	---	ND	---	---	---	30%		
2-Nitrophenol	ND	651	1310	ug/kg wet	50	---	ND	---	---	---	30%		
4-Nitrophenol	ND	1310	1310	ug/kg wet	50	---	ND	---	---	---	30%		
Pentachlorophenol (PCP)	ND	651	1310	ug/kg wet	50	---	ND	---	---	---	30%		
Phenol	ND	131	261	ug/kg wet	50	---	ND	---	---	---	30%		

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D1170 - EPA 3546						Solid						
Duplicate (23D1170-DUP3)						Prepared: 04/28/23 13:05 Analyzed: 05/02/23 02:37						PRO
QC Source Sample: Non-SDG (A3D1330-05RE2)												
2,3,4,6-Tetrachlorophenol	ND	326	651	ug/kg wet	50	---	ND	---	---	---	30%	
2,3,5,6-Tetrachlorophenol	ND	326	651	ug/kg wet	50	---	ND	---	---	---	30%	
2,4,5-Trichlorophenol	ND	326	651	ug/kg wet	50	---	ND	---	---	---	30%	
2,4,6-Trichlorophenol	ND	651	651	ug/kg wet	50	---	ND	---	---	---	30%	
Bis(2-ethylhexyl)phthalate	ND	978	1960	ug/kg wet	50	---	ND	---	---	---	30%	
Butyl benzyl phthalate	ND	651	1310	ug/kg wet	50	---	ND	---	---	---	30%	
Diethylphthalate	ND	651	1310	ug/kg wet	50	---	ND	---	---	---	30%	
Dimethylphthalate	ND	651	1310	ug/kg wet	50	---	ND	---	---	---	30%	
Di-n-butylphthalate	ND	651	1310	ug/kg wet	50	---	ND	---	---	---	30%	
Di-n-octyl phthalate	ND	651	1310	ug/kg wet	50	---	ND	---	---	---	30%	
N-Nitrosodimethylamine	ND	163	326	ug/kg wet	50	---	ND	---	---	---	30%	
N-Nitroso-di-n-propylamine	ND	163	326	ug/kg wet	50	---	ND	---	---	---	30%	
N-Nitrosodiphenylamine	ND	783	783	ug/kg wet	50	---	ND	---	---	---	30%	R-02
Bis(2-Chloroethoxy) methane	ND	163	326	ug/kg wet	50	---	ND	---	---	---	30%	
Bis(2-Chloroethyl) ether	ND	163	326	ug/kg wet	50	---	ND	---	---	---	30%	
2,2'-Oxybis(1-Chloropropane)	ND	163	326	ug/kg wet	50	---	ND	---	---	---	30%	
Hexachlorobenzene	ND	65.1	131	ug/kg wet	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	163	326	ug/kg wet	50	---	ND	---	---	---	30%	
Hexachlorocyclopentadiene	ND	326	651	ug/kg wet	50	---	ND	---	---	---	30%	
Hexachloroethane	ND	163	326	ug/kg wet	50	---	ND	---	---	---	30%	
2-Chloronaphthalene	ND	65.1	131	ug/kg wet	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	163	326	ug/kg wet	50	---	ND	---	---	---	30%	
4-Bromophenyl phenyl ether	ND	163	326	ug/kg wet	50	---	ND	---	---	---	30%	
4-Chlorophenyl phenyl ether	ND	163	326	ug/kg wet	50	---	ND	---	---	---	30%	
Aniline	ND	326	651	ug/kg wet	50	---	ND	---	---	---	30%	
4-Chloroaniline	ND	163	326	ug/kg wet	50	---	ND	---	---	---	30%	
2-Nitroaniline	ND	1310	2610	ug/kg wet	50	---	ND	---	---	---	30%	
3-Nitroaniline	ND	1310	2610	ug/kg wet	50	---	ND	---	---	---	30%	
4-Nitroaniline	ND	1310	2610	ug/kg wet	50	---	ND	---	---	---	30%	
Nitrobenzene	ND	651	1310	ug/kg wet	50	---	ND	---	---	---	30%	
2,4-Dinitrotoluene	ND	651	1310	ug/kg wet	50	---	ND	---	---	---	30%	
2,6-Dinitrotoluene	ND	651	1310	ug/kg wet	50	---	ND	---	---	---	30%	
Benzoic acid	ND	8170	16300	ug/kg wet	50	---	ND	---	---	---	30%	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23D1170 - EPA 3546						Solid							
Duplicate (23D1170-DUP3)						Prepared: 04/28/23 13:05 Analyzed: 05/02/23 02:37						PRO	
QC Source Sample: Non-SDG (A3D1330-05RE2)													
Benzyl alcohol	ND	326	651	ug/kg wet	50	---	ND	---	---	---	30%		
Isophorone	ND	163	326	ug/kg wet	50	---	ND	---	---	---	30%		
Azobenzene (1,2-DPH)	ND	163	326	ug/kg wet	50	---	ND	---	---	---	30%		
Bis(2-Ethylhexyl) adipate	ND	1630	3260	ug/kg wet	50	---	ND	---	---	---	30%		
3,3'-Dichlorobenzidine	ND	1310	2610	ug/kg wet	50	---	ND	---	---	---	30%	Q-52	
1,2-Dinitrobenzene	ND	1630	3260	ug/kg wet	50	---	ND	---	---	---	30%		
1,3-Dinitrobenzene	ND	1630	3260	ug/kg wet	50	---	ND	---	---	---	30%		
1,4-Dinitrobenzene	ND	1630	3260	ug/kg wet	50	---	ND	---	---	---	30%		
Pyridine	ND	326	651	ug/kg wet	50	---	ND	---	---	---	30%		
1,2-Dichlorobenzene	ND	163	326	ug/kg wet	50	---	ND	---	---	---	30%		
1,3-Dichlorobenzene	ND	163	326	ug/kg wet	50	---	ND	---	---	---	30%		
1,4-Dichlorobenzene	ND	163	326	ug/kg wet	50	---	ND	---	---	---	30%		
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 43 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 50x</i>							S-05
<i>2-Fluorobiphenyl (Surr)</i>		<i>57 %</i>		<i>44-120 %</i>		<i>"</i>							S-05
<i>Phenol-d6 (Surr)</i>		<i>14 %</i>		<i>33-122 %</i>		<i>"</i>							S-05
<i>p-Terphenyl-d14 (Surr)</i>		<i>74 %</i>		<i>54-127 %</i>		<i>"</i>							S-05
<i>2-Fluorophenol (Surr)</i>		<i>%</i>		<i>35-120 %</i>		<i>"</i>							S-01
<i>2,4,6-Tribromophenol (Surr)</i>		<i>%</i>		<i>39-132 %</i>		<i>"</i>							S-01

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-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0850 - EPA 3051A						Solid						
Blank (23D0850-BLK1)			Prepared: 04/21/23 07:18 Analyzed: 04/22/23 01:54									
<u>EPA 6020B</u>												
Arsenic	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Barium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	100	200	ug/kg wet	10	---	---	---	---	---	---	
Chromium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Selenium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Blank (23D0850-BLK2)			Prepared: 04/21/23 07:18 Analyzed: 04/24/23 22:23									
<u>EPA 6020B</u>												
Lead	ND	100	200	ug/kg wet	10	---	---	---	---	---	---	Q-16
Mercury	ND	40.0	80.0	ug/kg wet	10	---	---	---	---	---	---	Q-16
Silver	ND	100	200	ug/kg wet	10	---	---	---	---	---	---	Q-16
LCS (23D0850-BS1)			Prepared: 04/21/23 07:18 Analyzed: 04/22/23 01:59									
<u>EPA 6020B</u>												
Arsenic	46600	500	1000	ug/kg wet	10	50000	---	93	80-120%	---	---	
Cadmium	47100	100	200	ug/kg wet	10	50000	---	94	80-120%	---	---	
Chromium	48800	500	1000	ug/kg wet	10	50000	---	98	80-120%	---	---	
Selenium	22300	500	1000	ug/kg wet	10	25000	---	89	80-120%	---	---	
LCS (23D0850-BS2)			Prepared: 04/21/23 07:18 Analyzed: 04/24/23 22:28									
<u>EPA 6020B</u>												
Barium	53000	500	1000	ug/kg wet	10	50000	---	106	80-120%	---	---	Q-16
Lead	51200	100	200	ug/kg wet	10	50000	---	102	80-120%	---	---	Q-16
Mercury	907	40.0	80.0	ug/kg wet	10	1000	---	91	80-120%	---	---	Q-16
Silver	23100	100	200	ug/kg wet	10	25000	---	93	80-120%	---	---	Q-16
Duplicate (23D0850-DUP1)			Prepared: 04/21/23 07:18 Analyzed: 04/22/23 02:09									
<u>QC Source Sample: Non-SDG (A3D0921-06)</u>												
Arsenic	6520	504	1010	ug/kg wet	10	---	8020	---	---	21	20%	Q-04
Cadmium	264	101	202	ug/kg wet	10	---	310	---	---	16	20%	
Chromium	16700	504	1010	ug/kg wet	10	---	17900	---	---	6	20%	
Selenium	714	504	1010	ug/kg wet	10	---	577	---	---	21	20%	J

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0850 - EPA 3051A						Solid						
Duplicate (23D0850-DUP2)			Prepared: 04/21/23 07:18 Analyzed: 04/24/23 22:38									
<u>QC Source Sample: Non-SDG (A3D0921-06RE1)</u>												
Barium	157000	504	1010	ug/kg wet	10	---	117000	---	---	29	20%	Q-04, Q-16
Lead	5860	101	202	ug/kg wet	10	---	7250	---	---	21	20%	Q-04, Q-16
Mercury	61.8	40.3	80.6	ug/kg wet	10	---	52.2	---	---	17	20%	J, Q-16
Silver	120	101	202	ug/kg wet	10	---	123	---	---	2	20%	J, Q-16
Matrix Spike (23D0850-MS1)						Prepared: 04/21/23 07:18 Analyzed: 04/22/23 02:14						
<u>QC Source Sample: Non-SDG (A3D0921-06)</u>												
<u>EPA 6020B</u>												
Arsenic	43700	485	971	ug/kg wet	10	48500	8020	74	75-125%	---	---	Q-04
Cadmium	41700	97.1	194	ug/kg wet	10	48500	310	85	75-125%	---	---	
Chromium	62300	485	971	ug/kg wet	10	48500	17900	92	75-125%	---	---	
Selenium	19300	485	971	ug/kg wet	10	24300	577	77	75-125%	---	---	
Matrix Spike (23D0850-MS2)						Prepared: 04/21/23 07:18 Analyzed: 04/24/23 22:43						
<u>QC Source Sample: Non-SDG (A3D0921-06RE1)</u>												
<u>EPA 6020B</u>												
Barium	170000	485	971	ug/kg wet	10	48500	117000	109	75-125%	---	---	Q-16
Lead	47000	97.1	194	ug/kg wet	10	48500	7250	82	75-125%	---	---	Q-16
Mercury	822	38.8	77.7	ug/kg wet	10	971	52.2	79	75-125%	---	---	Q-16
Silver	19200	97.1	194	ug/kg wet	10	24300	123	79	75-125%	---	---	Q-16

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Darwin Thomas, Business Development Director



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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
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QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0989 - EPA 1311/3015A						Solid						
Blank (23D0989-BLK1)			Prepared: 04/25/23 10:58 Analyzed: 04/25/23 23:31									
<u>1311/6020B</u>												
Arsenic	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLPa
Barium	ND	2500	5000	ug/L	10	---	---	---	---	---	---	TCLPa
Cadmium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLPa
Chromium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLPa
Lead	ND	25.0	50.0	ug/L	10	---	---	---	---	---	---	TCLPa
Mercury	ND	3.75	7.00	ug/L	10	---	---	---	---	---	---	TCLPa
Selenium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLPa
Silver	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLPa
<hr/>												
LCS (23D0989-BS1)			Prepared: 04/25/23 10:58 Analyzed: 04/25/23 23:35									
<u>1311/6020B</u>												
Arsenic	5370	50.0	100	ug/L	10	5000	---	107	80-120%	---	---	TCLPa
Barium	10700	2500	5000	ug/L	10	10000	---	107	80-120%	---	---	TCLPa
Cadmium	1070	50.0	100	ug/L	10	1000	---	107	80-120%	---	---	TCLPa
Chromium	5240	50.0	100	ug/L	10	5000	---	105	80-120%	---	---	TCLPa
Lead	5780	25.0	50.0	ug/L	10	5000	---	116	80-120%	---	---	TCLPa
Mercury	107	3.75	7.00	ug/L	10	100	---	107	80-120%	---	---	TCLPa
Selenium	1030	50.0	100	ug/L	10	1000	---	103	80-120%	---	---	TCLPa
Silver	990	50.0	100	ug/L	10	1000	---	99	80-120%	---	---	TCLPa
<hr/>												
Duplicate (23D0989-DUP1)			Prepared: 04/25/23 10:58 Analyzed: 04/25/23 23:50									
<u>QC Source Sample: Non-SDG (A3D1198-02)</u>												
Arsenic	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	
Barium	ND	2500	5000	ug/L	10	---	ND	---	---	---	20%	
Cadmium	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	
Chromium	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	
Lead	ND	25.0	50.0	ug/L	10	---	ND	---	---	---	20%	
Mercury	ND	3.75	7.00	ug/L	10	---	ND	---	---	---	20%	
Selenium	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	
Silver	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	
<hr/>												
Matrix Spike (23D0989-MS1)			Prepared: 04/25/23 10:58 Analyzed: 04/25/23 23:55									

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QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0989 - EPA 1311/3015A						Solid						
Matrix Spike (23D0989-MS1)						Prepared: 04/25/23 10:58 Analyzed: 04/25/23 23:55						
QC Source Sample: Non-SDG (A3D1198-02)												
1311/6020B												
Arsenic	4940	50.0	100	ug/L	10	5000	ND	99	50-150%	---	---	
Barium	10800	2500	5000	ug/L	10	10000	ND	108	50-150%	---	---	
Cadmium	982	50.0	100	ug/L	10	1000	ND	98	50-150%	---	---	
Chromium	4850	50.0	100	ug/L	10	5000	ND	97	50-150%	---	---	
Lead	5200	25.0	50.0	ug/L	10	5000	ND	104	50-150%	---	---	
Mercury	99.3	3.75	7.00	ug/L	10	100	ND	99	50-150%	---	---	
Selenium	978	50.0	100	ug/L	10	1000	ND	98	50-150%	---	---	
Silver	897	50.0	100	ug/L	10	1000	ND	90	50-150%	---	---	
Matrix Spike (23D0989-MS2)						Prepared: 04/25/23 10:58 Analyzed: 04/26/23 00:10						
QC Source Sample: Non-SDG (A3D1357-01)												
1311/6020B												
Arsenic	4990	50.0	100	ug/L	10	5000	ND	100	50-150%	---	---	
Barium	10200	2500	5000	ug/L	10	10000	ND	102	50-150%	---	---	
Cadmium	995	50.0	100	ug/L	10	1000	ND	100	50-150%	---	---	
Chromium	4880	50.0	100	ug/L	10	5000	ND	98	50-150%	---	---	
Lead	5190	25.0	50.0	ug/L	10	5000	ND	104	50-150%	---	---	
Mercury	98.3	3.75	7.00	ug/L	10	100	ND	98	50-150%	---	---	
Selenium	989	50.0	100	ug/L	10	1000	ND	99	50-150%	---	---	
Silver	910	50.0	100	ug/L	10	1000	ND	91	50-150%	---	---	
Matrix Spike (23D0989-MS3)						Prepared: 04/25/23 10:58 Analyzed: 04/26/23 00:29						
QC Source Sample: FC-041623-2245 (A3D1359-01)												
1311/6020B												
Arsenic	4970	50.0	100	ug/L	10	5000	ND	99	50-150%	---	---	CONT
Barium	10100	2500	5000	ug/L	10	10000	ND	101	50-150%	---	---	CONT
Cadmium	986	50.0	100	ug/L	10	1000	ND	99	50-150%	---	---	CONT
Chromium	4890	50.0	100	ug/L	10	5000	ND	98	50-150%	---	---	CONT
Lead	5030	25.0	50.0	ug/L	10	5000	ND	101	50-150%	---	---	CONT
Mercury	96.2	3.75	7.00	ug/L	10	100	ND	96	50-150%	---	---	CONT
Selenium	974	50.0	100	ug/L	10	1000	ND	97	50-150%	---	---	CONT

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Darwin Thomas, Business Development Director



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QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0989 - EPA 1311/3015A						Solid						
Matrix Spike (23D0989-MS3)						Prepared: 04/25/23 10:58 Analyzed: 04/26/23 00:29						
QC Source Sample: FC-041623-2245 (A3D1359-01)												
Silver	880	50.0	100	ug/L	10	1000	ND	88	50-150%	---	---	CONT

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0855 - ASTM D7511-12mod (S)						Soil						
Blank (23D0855-BLK1)						Prepared: 04/21/23 08:10 Analyzed: 04/21/23 14:04						
<u>D7511-12</u>												
Total Cyanide	ND	50.0	100	ug/kg wet	1	---	---	---	---	---	---	
LCS (23D0855-BS1)						Prepared: 04/21/23 08:10 Analyzed: 04/21/23 14:06						
<u>D7511-12</u>												
Total Cyanide	399	50.0	100	ug/kg wet	1	400	---	100	84-116%	---	---	
Matrix Spike (23D0855-MS3)						Prepared: 04/21/23 08:10 Analyzed: 04/21/23 17:17						
<u>QC Source Sample: Non-SDG (A3D1373-01RE2)</u>												
<u>D7511-12</u>												
Total Cyanide	4840	533	1070	ug/kg dry	10	426	ND	1130	64-136%	---	---	Q-02, Q-16
Matrix Spike Dup (23D0855-MSD3)						Prepared: 04/21/23 08:10 Analyzed: 04/21/23 17:41						
<u>QC Source Sample: Non-SDG (A3D1373-01RE2)</u>												
Total Cyanide	802	531	1060	ug/kg dry	10	425	ND	189	64-136%	143	47%	J, A-01, Q-02, Q-16

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 503-718-2323
 ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0767 - Total Solids (Dry Weight) - 2022							Soil					
Duplicate (23D0767-DUP1)			Prepared: 04/19/23 11:44 Analyzed: 04/20/23 04:12									
<u>QC Source Sample: Non-SDG (A3D1282-01)</u>												
% Solids	80.8	1.00	1.00	%	1	---	83.6	---	---	3	10%	
Duplicate (23D0767-DUP2)			Prepared: 04/19/23 11:44 Analyzed: 04/20/23 04:12									
<u>QC Source Sample: Non-SDG (A3D1295-01)</u>												
% Solids	91.9	1.00	1.00	%	1	---	92.2	---	---	0.3	10%	
Duplicate (23D0767-DUP3)			Prepared: 04/19/23 18:03 Analyzed: 04/20/23 04:12									
<u>QC Source Sample: Non-SDG (A3D1378-01)</u>												
% Solids	80.9	1.00	1.00	%	1	---	80.9	---	---	0.06	10%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23D1174</u>							
A3D1359-01	Solid	NWTPH-Dx	04/16/23 22:45	04/28/23 13:09	10.36g/5mL	10g/5mL	0.97

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23D0858</u>							
A3D1359-01RE1	Solid	NWTPH-Gx (MS)	04/16/23 22:45	04/19/23 11:36	5.87g/5mL	5g/5mL	0.85

Volatile Organic Compounds by EPA 8260D

Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23D0858</u>							
A3D1359-01RE1	Solid	5035A/8260D	04/16/23 22:45	04/19/23 11:36	5.87g/5mL	5g/5mL	0.85

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Prep: EPA 1311/5030B TCLP Volatiles					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23D0867</u>							
A3D1359-01	Solid	1311/8260D	04/16/23 22:45	04/21/23 16:27	5mL/5mL	5mL/5mL	1.00

Semivolatile Organic Compounds by EPA 8270E

Prep: EPA 3546					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23D1170</u>							
A3D1359-01	Solid	EPA 8270E	04/16/23 22:45	04/28/23 13:05	15.11g/2mL	15g/2mL	0.99
A3D1359-01RE2	Solid	EPA 8270E	04/16/23 22:45	04/28/23 13:05	15.11g/2mL	15g/2mL	0.99

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3051A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23D0850</u>							

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
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SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3051A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
A3D1359-01	Solid	EPA 6020B	04/16/23 22:45	04/21/23 07:18	0.462g/50mL	0.5g/50mL	1.08
A3D1359-01RE1	Solid	EPA 6020B	04/16/23 22:45	04/21/23 07:18	0.462g/50mL	0.5g/50mL	1.08

TCLP Metals by EPA 6020B (ICPMS)

Prep: EPA 1311/3015A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23D0989							
A3D1359-01	Solid	1311/6020B	04/16/23 22:45	04/25/23 10:58	10mL/50mL	10mL/50mL	1.00

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Prep: ASTM D7511-12mod (S)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23D0855							
A3D1359-01RE1	Solid	D7511-12	04/16/23 22:45	04/21/23 08:10	2.5099g/50mL	2.5g/50mL	1.00

Percent Dry Weight

Prep: Total Solids (Dry Weight) - 2022					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23D0767							
A3D1359-01	Solid	EPA 8000D	04/16/23 22:45	04/19/23 11:44			NA

TCLP Extraction by EPA 1311

Prep: EPA 1311 (TCLP)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23D0927							
A3D1359-01	Solid	EPA 1311	04/16/23 22:45	04/24/23 15:22	100g/2000g	100g/2000g	NA

Prep: EPA 1311 TCLP/ZHE					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23D0833							
A3D1359-01	Solid	EPA 1311 ZHE	04/16/23 22:45	04/20/23 14:37	25.6g/501.8g	25g/500g	NA

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Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc.
2749 Lockport Road
Niagara Falls, NY 14305

Project: **Gasco -- Filtercake**
Project Number: **111323**
Project Manager: **Chip Byrd**

Report ID:
A3D1359 - 05 04 23 1558

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- A-01** Run at same dilution as MS3.
- B-02** Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
- COMP** Analyzed sample is a composite of discrete samples that was performed in the laboratory.
- CONT** The Sample Container provided for this analysis was not provided by Apex Laboratories, and has not been verified as part of the Quality System.
- F-13** The chromatographic pattern does not resemble the fuel standard used for quantitation
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- M-02** Due to matrix interference, this analyte cannot be accurately quantified. The reported result is estimated.
- PRO** Sample has undergone sample processing prior to extraction and analysis.
- Q-01** Spike recovery and/or RPD is outside acceptance limits.
- Q-02** Spike recovery is outside of established control limits due to matrix interference.
- Q-04** Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- Q-16** Reanalysis of an original Batch QC sample.
- Q-18** Matrix Spike results for this extraction batch are not reported due to the high dilution necessary for analysis of the source sample.
- Q-29** Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
- Q-31** Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
- Q-41** Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- Q-52** Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
- Q-54** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +1%. The results are reported as Estimated Values.
- Q-54a** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +10%. The results are reported as Estimated Values.
- Q-54b** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +2%. The results are reported as Estimated Values.
- Q-54c** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +27%. The results are reported as Estimated Values.
- Q-54d** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +29%. The results are reported as Estimated Values.

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
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- Q-54e** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +3%. The results are reported as Estimated Values.
- Q-54f** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +4%. The results are reported as Estimated Values.
- Q-54g** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +5%. The results are reported as Estimated Values.
- Q-54h** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +6%. The results are reported as Estimated Values.
- Q-56** Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- R-06** Reporting level raised due to possible carryover from a previous sample.
- S-01** Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
- S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- TCLP** This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23D0833.
- TCLPa** This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23D0927.
- V-16** Sample aliquot was subsampled from the sample container in the laboratory. The subsampled aliquot was not preserved within 48 hours of sampling.

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

- DET Analyte DETECTED at or above the detection or reporting limit.
- ND Analyte NOT DETECTED at or above the detection or reporting limit.
- NR Result Not Reported
- RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

- Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.
- " dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
- " wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
- " " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

- " --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- " *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

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ANALYTICAL REPORT

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Table with 3 columns: Client (Sevenson Environmental Services, Inc.), Project (Gasco -- Filtercake), and Report ID (A3D1359 - 05 04 23 1558).

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

Handwritten signature of Darwin Thomas

Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
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LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -
EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
--------	----------	--------	---------	--------	---------------

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: <u>Gasco -- Filtercake</u> Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3D1359 - 05 04 23 1558
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APEX LABS
12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

CHAIN OF CUSTODY
Project Mgr: Chip Byrd
Project Name: Gasco -- Filtercake
Project #: 111323
Address: 2749 Lockport Road, Niagara Falls, NY 14305
E-mail: wbyrd@sevenson.com
Phone: (716) 563-2754
Fax:

Lab # **A3D1359**
COC # of _____
Sampled By: **ENDALKAHLEW MULLER**

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	ANALYSIS REQUEST															
						8260 VOCs	1311/8260 TCPL VOCs	8270D LL Full List	Dry Weight	Metals, RCRA 8	Metals, TPCL	Total Cyanide	NVTPH - DX	NVTPH - GX							
FC-041623-2245		4/16/23	12:45	S	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Normal Turn Around Time (TAT) = 6-10 Business Days

TAT Requested (circle):
 1 DAY
 2 DAY
 3 DAY
 4 DAY
 5 DAY
 6 DAY
 Other: 5 DB

SPECIAL INSTRUCTIONS:

RELINQUISHED BY: Signature: Printed Name: Chip Byrd Date: 4/14/23 Time: 07:57 Company: APEX	RECEIVED BY: Signature: Printed Name: Endalkahle Muller Date: 4/19/23 Time: 07:57 Company: APEX
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ANALYTICAL REPORT

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Sevenson Environmental Services, Inc.
2749 Lockport Road
Niagara Falls, NY 14305
Project: Gasco -- Filtercake
Project Number: 111323
Project Manager: Chip Byrd
Report ID: A3D1359 - 05 04 23 1558

APEX LABS COOLER RECEIPT FORM

Client: Sevenson Environmental Services Element WO#: A3D1359

Project/Project #: Gasco - Monthly Filtercake 111323
JS 4/19/23

Delivery Info:

Date/time received: 4/19/23 @ 757 By: RK
Delivered by: Apex [X] Client ESS FedEx UPS Radio Morgan SDS Evergreen Other

Cooler Inspection Date/time inspected: 4/19/23 @ 904 By: JS

Chain of Custody included? Yes [X] No
Signed/dated by client? Yes [X] No

Table with 7 columns: Cooler #1 to Cooler #7. Rows include Temperature (3.2), Custody seals (N), Received on ice (Y), Temp. blanks (Y), Ice type (gel), Condition (In).

Cooler out of temp? (Y/N) Possible reason why:
Green dots applied to out of temperature samples? Yes/No
Out of temperature samples form initiated? Yes/No

Sample Inspection: Date/time inspected: 4/19/23 @ 11:20 By: RMP
All samples intact? Yes [X] No Comments:

Bottle labels/COCs agree? Yes No [X] Comments: Central Lab reads FC-04
FC-0411623-2096

COC/container discrepancies form initiated? Yes No [X]
Containers/volumes received appropriate for analysis? Yes [X] No Comments:

Do VOA vials have visible headspace? Yes No NA [X]
Comments:

Water samples: pH checked: Yes No NA [X] pH appropriate? Yes No NA [X]
Comments:

Additional information:

Labeled by: RMP Witness: DJS Cooler Inspected by: RMP
Form Y-003 R-00

Signature of Darwin Thomas



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Monday, June 19, 2023

Chip Byrd
Sevenson Environmental Services, Inc.
2749 Lockport Road
Niagara Falls, NY 14305

RE: A3E1675 - Gasco -- Filtercake - 111323

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3E1675, which was received by the laboratory on 5/24/2023 at 9:57:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler 3.0 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FC-052323-2115	A3E1675-01	Solid	05/23/23 22:00	05/24/23 09:57

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ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-052323-2115 (A3E1675-01)				Matrix: Solid		Batch: 23F0153		
Diesel	7130000	1490000	2970000	ug/kg dry	40	06/07/23 01:52	NWTPH-Dx	F-13
Oil	ND	2970000	5950000	ug/kg dry	40	06/07/23 01:52	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: %</i>	<i>Limits: 50-150 %</i>	40	06/07/23 01:52	NWTPH-Dx	S-01

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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-052323-2115 (A3E1675-01RE1)				Matrix: Solid		Batch: 23E1239		V-15
Gasoline Range Organics	152000	16200	32400	ug/kg dry	50	05/31/23 13:44	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 104 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>05/31/23 13:44</i>	<i>NWTPH-Gx (MS)</i>
<i>1,4-Difluorobenzene (Sur)</i>		<i>100 %</i>		<i>50-150 %</i>		<i>1</i>	<i>05/31/23 13:44</i>	<i>NWTPH-Gx (MS)</i>

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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-052323-2115 (A3E1675-01RE1)				Matrix: Solid		Batch: 23E1239		V-15
Acetone	ND	3240	6480	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
Benzene	104	32.4	64.8	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
Bromobenzene	ND	81.0	162	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
Bromochloromethane	ND	162	324	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
Bromodichloromethane	ND	162	324	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
Bromoform	ND	648	648	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
Bromomethane	ND	3240	3240	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
2-Butanone (MEK)	ND	1620	3240	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
n-Butylbenzene	ND	162	324	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
sec-Butylbenzene	ND	162	324	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
tert-Butylbenzene	ND	162	324	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
Carbon disulfide	ND	1620	3240	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
Chlorobenzene	ND	81.0	162	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
Chloroethane	ND	1620	3240	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
Chloroform	ND	162	324	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
Chloromethane	ND	1620	1620	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
2-Chlorotoluene	ND	162	324	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
4-Chlorotoluene	ND	162	324	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
Dibromochloromethane	ND	324	648	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	810	1620	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	162	324	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
Dibromomethane	ND	162	324	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
1,2-Dichlorobenzene	ND	81.0	162	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
1,3-Dichlorobenzene	ND	81.0	162	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
1,4-Dichlorobenzene	ND	81.0	162	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
Dichlorodifluoromethane	ND	648	648	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
1,1-Dichloroethane	ND	81.0	162	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	81.0	162	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
1,1-Dichloroethene	ND	81.0	162	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
cis-1,2-Dichloroethene	ND	81.0	162	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
trans-1,2-Dichloroethene	ND	81.0	162	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
1,2-Dichloropropane	ND	81.0	162	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
1,3-Dichloropropane	ND	162	324	ug/kg dry	50	05/31/23 13:44	5035A/8260D	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-052323-2115 (A3E1675-01RE1)				Matrix: Solid		Batch: 23E1239		V-15
2,2-Dichloropropane	ND	162	324	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
1,1-Dichloropropene	ND	162	324	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
cis-1,3-Dichloropropene	ND	162	324	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
trans-1,3-Dichloropropene	ND	162	324	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
Ethylbenzene	308	81.0	162	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
Hexachlorobutadiene	ND	324	648	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
2-Hexanone	ND	1620	3240	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
Isopropylbenzene	ND	162	324	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
4-Isopropyltoluene	172	162	324	ug/kg dry	50	05/31/23 13:44	5035A/8260D	J
Methylene chloride	ND	1620	3240	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	1620	3240	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	162	324	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
Naphthalene	651	324	648	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
n-Propylbenzene	ND	81.0	162	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
Styrene	ND	162	324	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	81.0	162	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	162	324	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
Tetrachloroethene (PCE)	ND	81.0	162	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
Toluene	ND	162	324	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
1,2,3-Trichlorobenzene	ND	810	1620	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
1,2,4-Trichlorobenzene	ND	810	1620	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
1,1,1-Trichloroethane	ND	81.0	162	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
1,1,2-Trichloroethane	ND	81.0	162	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
Trichloroethene (TCE)	ND	81.0	162	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
Trichlorofluoromethane	ND	648	648	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
1,2,3-Trichloropropane	ND	162	324	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
1,2,4-Trimethylbenzene	697	162	324	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
1,3,5-Trimethylbenzene	246	162	324	ug/kg dry	50	05/31/23 13:44	5035A/8260D	J
Vinyl chloride	ND	81.0	162	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
m,p-Xylene	194	162	324	ug/kg dry	50	05/31/23 13:44	5035A/8260D	J
o-Xylene	204	81.0	162	ug/kg dry	50	05/31/23 13:44	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 96 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>05/31/23 13:44</i>	<i>5035A/8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>05/31/23 13:44</i>	<i>5035A/8260D</i>

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ANALYTICAL REPORT

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-052323-2115 (A3E1675-01RE1)				Matrix: Solid		Batch: 23E1239		V-15
<i>Surrogate: 4-Bromofluorobenzene (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 79-120 %</i>		<i>1</i>	<i>05/31/23 13:44</i>	<i>5035A/8260D</i>

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ANALYTICAL SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-052323-2115 (A3E1675-01)			Matrix: Solid		Batch: 23F0093			
Benzene	ND	6.25	12.5	ug/L	50	06/03/23 01:50	1311/8260D	
2-Butanone (MEK)	ND	250	500	ug/L	50	06/03/23 01:50	1311/8260D	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	06/03/23 01:50	1311/8260D	
Chlorobenzene	ND	12.5	25.0	ug/L	50	06/03/23 01:50	1311/8260D	
Chloroform	ND	25.0	50.0	ug/L	50	06/03/23 01:50	1311/8260D	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	06/03/23 01:50	1311/8260D	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	06/03/23 01:50	1311/8260D	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	06/03/23 01:50	1311/8260D	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	06/03/23 01:50	1311/8260D	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	06/03/23 01:50	1311/8260D	
Vinyl chloride	ND	12.5	25.0	ug/L	50	06/03/23 01:50	1311/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>06/03/23 01:50</i>	<i>1311/8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>1</i>	<i>06/03/23 01:50</i>	<i>1311/8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>1</i>	<i>06/03/23 01:50</i>	<i>1311/8260D</i>

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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-052323-2115 (A3E1675-01)				Matrix: Solid		Batch: 23F0172		
Acenaphthene	82600	2800	5620	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Acenaphthylene	ND	5620	5620	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Anthracene	67900	2800	5620	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Benz(a)anthracene	36400	2800	5620	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Benzo(a)pyrene	39000	4210	8410	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Benzo(b)fluoranthene	30500	4210	8410	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Benzo(k)fluoranthene	12100	4210	8410	ug/kg dry	200	06/06/23 17:45	EPA 8270E	M-05
Benzo(g,h,i)perylene	25400	2800	5620	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Chrysene	52600	2800	5620	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Dibenz(a,h)anthracene	ND	2800	5620	ug/kg dry	200	06/06/23 17:45	EPA 8270E	Q-37, Q-42
Fluoranthene	198000	2800	5620	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Fluorene	57400	2800	5620	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Indeno(1,2,3-cd)pyrene	21500	2800	5620	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
1-Methylnaphthalene	30500	5620	11200	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
2-Methylnaphthalene	22500	5620	11200	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Naphthalene	ND	5620	11200	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Phenanthrene	399000	2800	5620	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Pyrene	232000	2800	5620	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Carbazole	ND	4210	8410	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Dibenzofuran	7130	2800	5620	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
2-Chlorophenol	ND	14000	28000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
4-Chloro-3-methylphenol	ND	28000	56200	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
2,4-Dichlorophenol	ND	14000	28000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
2,4-Dimethylphenol	ND	14000	28000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
2,4-Dinitrophenol	ND	70000	140000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	70000	140000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
2-Methylphenol	ND	7000	14000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
3+4-Methylphenol(s)	ND	7000	14000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
2-Nitrophenol	ND	28000	56200	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
4-Nitrophenol	ND	56200	56200	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Pentachlorophenol (PCP)	ND	28000	56200	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Phenol	ND	5620	11200	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	14000	28000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	

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-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-052323-2115 (A3E1675-01)				Matrix: Solid		Batch: 23F0172		
2,3,5,6-Tetrachlorophenol	ND	14000	28000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
2,4,5-Trichlorophenol	ND	14000	28000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
2,4,6-Trichlorophenol	ND	14000	28000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	42100	84100	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Butyl benzyl phthalate	ND	28000	56200	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Diethylphthalate	ND	28000	56200	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Dimethylphthalate	ND	28000	56200	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Di-n-butylphthalate	ND	28000	56200	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Di-n-octyl phthalate	ND	28000	56200	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
N-Nitrosodimethylamine	ND	7000	14000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	7000	14000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
N-Nitrosodiphenylamine	ND	14000	14000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	7000	14000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	7000	14000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	7000	14000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Hexachlorobenzene	ND	2800	5620	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Hexachlorobutadiene	ND	7000	14000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Hexachlorocyclopentadiene	ND	14000	28000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Hexachloroethane	ND	7000	14000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
2-Chloronaphthalene	ND	2800	5620	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
1,2,4-Trichlorobenzene	ND	7000	14000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
4-Bromophenyl phenyl ether	ND	7000	14000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	7000	14000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Aniline	ND	14000	28000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
4-Chloroaniline	ND	7000	14000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
2-Nitroaniline	ND	56200	112000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
3-Nitroaniline	ND	56200	112000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
4-Nitroaniline	ND	56200	112000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Nitrobenzene	ND	28000	56200	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
2,4-Dinitrotoluene	ND	28000	56200	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
2,6-Dinitrotoluene	ND	28000	56200	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Benzoic acid	ND	351000	700000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	
Benzyl alcohol	ND	14000	28000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	

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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
FC-052323-2115 (A3E1675-01)			Matrix: Solid		Batch: 23F0172				
Isophorone	ND	7000	14000	ug/kg dry	200	06/06/23 17:45	EPA 8270E		
Azobenzene (1,2-DPH)	ND	7000	14000	ug/kg dry	200	06/06/23 17:45	EPA 8270E		
Bis(2-Ethylhexyl) adipate	ND	70000	140000	ug/kg dry	200	06/06/23 17:45	EPA 8270E		
3,3'-Dichlorobenzidine	ND	56200	112000	ug/kg dry	200	06/06/23 17:45	EPA 8270E	Q-52	
1,2-Dinitrobenzene	ND	70000	140000	ug/kg dry	200	06/06/23 17:45	EPA 8270E		
1,3-Dinitrobenzene	ND	70000	140000	ug/kg dry	200	06/06/23 17:45	EPA 8270E		
1,4-Dinitrobenzene	ND	70000	140000	ug/kg dry	200	06/06/23 17:45	EPA 8270E		
Pyridine	ND	14000	28000	ug/kg dry	200	06/06/23 17:45	EPA 8270E		
1,2-Dichlorobenzene	ND	7000	14000	ug/kg dry	200	06/06/23 17:45	EPA 8270E		
1,3-Dichlorobenzene	ND	7000	14000	ug/kg dry	200	06/06/23 17:45	EPA 8270E		
1,4-Dichlorobenzene	ND	7000	14000	ug/kg dry	200	06/06/23 17:45	EPA 8270E		
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 92 %</i>		<i>Limits: 37-122 %</i>		<i>200</i>	<i>06/06/23 17:45</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>2-Fluorobiphenyl (Surr)</i>		<i>101 %</i>		<i>44-120 %</i>		<i>200</i>	<i>06/06/23 17:45</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>Phenol-d6 (Surr)</i>		<i>78 %</i>		<i>33-122 %</i>		<i>200</i>	<i>06/06/23 17:45</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>104 %</i>		<i>54-127 %</i>		<i>200</i>	<i>06/06/23 17:45</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>2-Fluorophenol (Surr)</i>		<i>68 %</i>		<i>35-120 %</i>		<i>200</i>	<i>06/06/23 17:45</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>2,4,6-Tribromophenol (Surr)</i>		<i>261 %</i>		<i>39-132 %</i>		<i>200</i>	<i>06/06/23 17:45</i>	<i>EPA 8270E</i>	<i>S-05</i>

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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-052323-2115 (A3E1675-01)				Matrix: Solid				
Batch: 23E1101								
Arsenic	8360	2090	4180	ug/kg dry	10	05/25/23 18:50	EPA 6020B	
Barium	211000	2090	4180	ug/kg dry	10	05/25/23 18:50	EPA 6020B	
Cadmium	ND	418	835	ug/kg dry	10	05/25/23 18:50	EPA 6020B	
Chromium	ND	2090	4180	ug/kg dry	10	05/25/23 18:50	EPA 6020B	
Lead	ND	418	835	ug/kg dry	10	05/25/23 18:50	EPA 6020B	
Mercury	ND	167	334	ug/kg dry	10	05/25/23 18:50	EPA 6020B	
Selenium	ND	2090	4180	ug/kg dry	10	05/25/23 18:50	EPA 6020B	
Silver	ND	418	835	ug/kg dry	10	05/25/23 18:50	EPA 6020B	

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ANALYTICAL SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
FC-052323-2115 (A3E1675-01)				Matrix: Solid					
Batch: 23F0042									
Arsenic	ND	50.0	100	ug/L	10	06/02/23 23:29	1311/6020B		
Barium	ND	2500	5000	ug/L	10	06/02/23 23:29	1311/6020B		
Cadmium	ND	50.0	100	ug/L	10	06/02/23 23:29	1311/6020B		
Chromium	ND	50.0	100	ug/L	10	06/02/23 23:29	1311/6020B		
Lead	ND	25.0	50.0	ug/L	10	06/02/23 23:29	1311/6020B		
Mercury	ND	3.75	7.00	ug/L	10	06/02/23 23:29	1311/6020B		
Selenium	ND	50.0	100	ug/L	10	06/02/23 23:29	1311/6020B		
FC-052323-2115 (A3E1675-01RE1)				Matrix: Solid					
Batch: 23F0141									
Silver	ND	50.0	100	ug/L	10	06/05/23 21:28	1311/6020B		

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ANALYTICAL SAMPLE RESULTS

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-052323-2115 (A3E1675-01)				Matrix: Solid		Batch: 23F0064		
Total Cyanide	5130	947	1890	ug/kg dry	5	06/02/23 15:17	D7511-12	

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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-052323-2115 (A3E1675-01)				Matrix: Solid		Batch: 23E1075		
% Solids	26.3	1.00	1.00	%	1	05/26/23 06:10	EPA 8000D	

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ANALYTICAL SAMPLE RESULTS

TCLP Extraction by EPA 1311

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-052323-2115 (A3E1675-01)				Matrix: Solid		Batch: 23E1235		
TCLP Extraction	PREP			N/A	1	05/31/23 16:00	EPA 1311	
TCLP ZHE Extraction	PREP			N/A	1	06/01/23 14:41	EPA 1311 ZHE	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0153 - EPA 3546 (Fuels)						Solid						
Blank (23F0153-BLK1)			Prepared: 06/06/23 08:08 Analyzed: 06/07/23 01:12									
<u>NWTPH-Dx</u>												
Diesel	ND	10000	20000	ug/kg wet	1	---	---	---	---	---	---	
Oil	ND	20000	40000	ug/kg wet	1	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 109 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
LCS (23F0153-BS1)			Prepared: 06/06/23 08:08 Analyzed: 06/07/23 01:32									
<u>NWTPH-Dx</u>												
Diesel	113000	10000	20000	ug/kg wet	1	125000	---	90	38-132%	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
Duplicate (23F0153-DUP1)			Prepared: 06/06/23 08:08 Analyzed: 06/07/23 02:33									
<u>QC Source Sample: FC-052323-2115 (A3E1675-01)</u>												
<u>NWTPH-Dx</u>												
Diesel	6060000	1490000	2990000	ug/kg dry	40	---	7130000	---	---	16	30%	F-13
Oil	ND	2990000	5970000	ug/kg dry	40	---	ND	---	---	---	30%	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 40x</i>						S-01

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E1188 - EPA 5035A						Soil						
Blank (23E1188-BLK1)			Prepared: 05/30/23 09:58 Analyzed: 05/30/23 11:33									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	2500	5000	ug/kg wet	50	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 105 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>100 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (23E1188-BS2)			Prepared: 05/30/23 09:58 Analyzed: 05/30/23 11:03									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	24800	2500	5000	ug/kg wet	50	25000	---	99	80-120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 97 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>100 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (23E1188-DUP1)			Prepared: 05/23/23 08:45 Analyzed: 05/30/23 12:24									
<u>QC Source Sample: Non-SDG (A3E1787-01)</u>												
Gasoline Range Organics	ND	4470	8930	ug/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 103 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>101 %</i>		<i>50-150 %</i>		<i>"</i>						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E1239 - EPA 5035A						Soil						
Blank (23E1239-BLK1)			Prepared: 05/31/23 10:37 Analyzed: 05/31/23 12:02									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	2500	5000	ug/kg wet	50	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 99 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>103 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (23E1239-BS2)						Prepared: 05/31/23 10:37 Analyzed: 05/31/23 11:31						
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	25900	2500	5000	ug/kg wet	50	25000	---	104	80-120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 99 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>103 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (23E1239-DUP1)						Prepared: 05/30/23 19:35 Analyzed: 05/31/23 15:26					H-01, V-16	
<u>QC Source Sample: Non-SDG (A3E1174-01)</u>												
Gasoline Range Organics	1050000	2910	5820	ug/kg dry	50	---	1030000	---	---	2	30%	E
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 103 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>100 %</i>		<i>50-150 %</i>		<i>"</i>						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E1188 - EPA 5035A						Soil						
Blank (23E1188-BLK1)			Prepared: 05/30/23 09:58 Analyzed: 05/30/23 11:33									
<u>5035A/8260D</u>												
Acetone	ND	500	1000	ug/kg wet	50	---	---	---	---	---	---	
Acrylonitrile	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Benzene	ND	5.00	10.0	ug/kg wet	50	---	---	---	---	---	---	
Bromobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Bromochloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromodichloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromoform	ND	100	100	ug/kg wet	50	---	---	---	---	---	---	Q-54g
Bromomethane	ND	500	500	ug/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
n-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Carbon disulfide	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	50.0	50.0	ug/kg wet	50	---	---	---	---	---	---	Q-54d
Chlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Chloroethane	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chloromethane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromochloromethane	ND	100	100	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	250	250	ug/kg wet	50	---	---	---	---	---	---	Q-54c
1,2-Dibromoethane (EDB)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromomethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	----------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E1188 - EPA 5035A						Soil						
Blank (23E1188-BLK1)			Prepared: 05/30/23 09:58 Analyzed: 05/30/23 11:33									
1,2-Dichloropropane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Methylene chloride	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Styrene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	25.0	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	100	100	ug/kg wet	50	---	---	---	---	---	---	Q-54j
1,2,3-Trichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 97% Limits: 80-120% Dilution: 1x

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E1188 - EPA 5035A						Soil						
Blank (23E1188-BLK1)						Prepared: 05/30/23 09:58 Analyzed: 05/30/23 11:33						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>79-120 %</i>		<i>"</i>						
LCS (23E1188-BS1)						Prepared: 05/30/23 09:58 Analyzed: 05/30/23 10:37						
5035A/8260D												
Acetone	1930	500	1000	ug/kg wet	50	2000	---	96	80-120%	---	---	
Acrylonitrile	975	50.0	100	ug/kg wet	50	1000	---	98	80-120%	---	---	
Benzene	980	5.00	10.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Bromobenzene	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
Bromochloromethane	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Bromodichloromethane	830	25.0	50.0	ug/kg wet	50	1000	---	83	80-120%	---	---	
Bromoform	566	100	100	ug/kg wet	50	1000	---	57	80-120%	---	---	Q-54g
Bromomethane	980	500	500	ug/kg wet	50	1000	---	98	80-120%	---	---	
2-Butanone (MEK)	1970	250	500	ug/kg wet	50	2000	---	99	80-120%	---	---	
n-Butylbenzene	1050	25.0	50.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
sec-Butylbenzene	1080	25.0	50.0	ug/kg wet	50	1000	---	108	80-120%	---	---	
tert-Butylbenzene	1080	25.0	50.0	ug/kg wet	50	1000	---	108	80-120%	---	---	
Carbon disulfide	958	250	500	ug/kg wet	50	1000	---	96	80-120%	---	---	
Carbon tetrachloride	658	50.0	50.0	ug/kg wet	50	1000	---	66	80-120%	---	---	Q-54d
Chlorobenzene	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Chloroethane	917	250	500	ug/kg wet	50	1000	---	92	80-120%	---	---	
Chloroform	976	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Chloromethane	822	125	250	ug/kg wet	50	1000	---	82	80-120%	---	---	
2-Chlorotoluene	1050	25.0	50.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
4-Chlorotoluene	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Dibromochloromethane	737	100	100	ug/kg wet	50	1000	---	74	80-120%	---	---	Q-55
1,2-Dibromo-3-chloropropane	667	250	250	ug/kg wet	50	1000	---	67	80-120%	---	---	Q-54c
1,2-Dibromoethane (EDB)	952	25.0	50.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
Dibromomethane	1020	25.0	50.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
1,2-Dichlorobenzene	1040	12.5	25.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,3-Dichlorobenzene	1040	12.5	25.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,4-Dichlorobenzene	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Dichlorodifluoromethane	891	50.0	100	ug/kg wet	50	1000	---	89	80-120%	---	---	
1,1-Dichloroethane	1000	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E1188 - EPA 5035A						Soil						
LCS (23E1188-BS1)			Prepared: 05/30/23 09:58 Analyzed: 05/30/23 10:37									
1,2-Dichloroethane (EDC)	1040	12.5	25.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,1-Dichloroethene	1030	12.5	25.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
cis-1,2-Dichloroethene	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
trans-1,2-Dichloroethene	998	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
1,2-Dichloropropane	977	12.5	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
1,3-Dichloropropane	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
2,2-Dichloropropane	902	25.0	50.0	ug/kg wet	50	1000	---	90	80-120%	---	---	
1,1-Dichloropropene	1030	25.0	50.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
cis-1,3-Dichloropropene	972	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
trans-1,3-Dichloropropene	947	25.0	50.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
Ethylbenzene	994	12.5	25.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
Hexachlorobutadiene	1010	50.0	100	ug/kg wet	50	1000	---	101	80-120%	---	---	
2-Hexanone	1990	250	500	ug/kg wet	50	2000	---	99	80-120%	---	---	
Isopropylbenzene	1060	25.0	50.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
4-Isopropyltoluene	1100	25.0	50.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
Methylene chloride	996	250	500	ug/kg wet	50	1000	---	100	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	2070	250	500	ug/kg wet	50	2000	---	103	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	974	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
Naphthalene	1080	50.0	100	ug/kg wet	50	1000	---	108	80-120%	---	---	
n-Propylbenzene	1050	12.5	25.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
Styrene	1050	25.0	50.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
1,1,1,2-Tetrachloroethane	710	25.0	25.0	ug/kg wet	50	1000	---	71	80-120%	---	---	Q-55
1,1,2,2-Tetrachloroethane	934	25.0	50.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
Tetrachloroethene (PCE)	1040	12.5	25.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Toluene	957	25.0	50.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
1,2,3-Trichlorobenzene	1040	125	250	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,2,4-Trichlorobenzene	1010	125	250	ug/kg wet	50	1000	---	101	80-120%	---	---	
1,1,1-Trichloroethane	926	12.5	25.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
1,1,2-Trichloroethane	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
Trichloroethene (TCE)	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
Trichlorofluoromethane	470	100	100	ug/kg wet	50	1000	---	47	80-120%	---	---	Q-54j
1,2,3-Trichloropropane	1020	25.0	50.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
1,2,4-Trimethylbenzene	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,3,5-Trimethylbenzene	1080	25.0	50.0	ug/kg wet	50	1000	---	108	80-120%	---	---	

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ANALYTICAL REPORT

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E1188 - EPA 5035A						Soil						
LCS (23E1188-BS1)						Prepared: 05/30/23 09:58 Analyzed: 05/30/23 10:37						
Vinyl chloride	974	12.5	25.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
m,p-Xylene	1980	25.0	50.0	ug/kg wet	50	2000	---	99	80-120%	---	---	
o-Xylene	1000	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 96 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (23E1188-DUP1)						Prepared: 05/23/23 08:45 Analyzed: 05/30/23 12:24						
QC Source Sample: Non-SDG (A3E1787-01)												
Acetone	ND	893	1790	ug/kg dry	50	---	ND	---	---	---	30%	
Acrylonitrile	ND	89.3	179	ug/kg dry	50	---	ND	---	---	---	30%	
Benzene	ND	8.93	17.9	ug/kg dry	50	---	ND	---	---	---	30%	
Bromobenzene	ND	22.3	44.7	ug/kg dry	50	---	ND	---	---	---	30%	
Bromochloromethane	ND	44.7	89.3	ug/kg dry	50	---	ND	---	---	---	30%	
Bromodichloromethane	ND	44.7	89.3	ug/kg dry	50	---	ND	---	---	---	30%	
Bromoform	ND	179	179	ug/kg dry	50	---	ND	---	---	---	30%	Q-54g
Bromomethane	ND	893	893	ug/kg dry	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	447	893	ug/kg dry	50	---	ND	---	---	---	30%	
n-Butylbenzene	ND	44.7	89.3	ug/kg dry	50	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	44.7	89.3	ug/kg dry	50	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	44.7	89.3	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon disulfide	ND	447	893	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	89.3	89.3	ug/kg dry	50	---	ND	---	---	---	30%	Q-54d
Chlorobenzene	ND	22.3	44.7	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroethane	ND	447	893	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroform	ND	44.7	89.3	ug/kg dry	50	---	ND	---	---	---	30%	
Chloromethane	ND	223	447	ug/kg dry	50	---	ND	---	---	---	30%	
2-Chlorotoluene	45.5	44.7	89.3	ug/kg dry	50	---	48.2	---	---	6	30%	J
4-Chlorotoluene	ND	44.7	89.3	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromochloromethane	ND	179	179	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	447	447	ug/kg dry	50	---	ND	---	---	---	30%	Q-54c
1,2-Dibromoethane (EDB)	ND	44.7	89.3	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromomethane	ND	44.7	89.3	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	22.3	44.7	ug/kg dry	50	---	ND	---	---	---	30%	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E1188 - EPA 5035A							Soil					
Duplicate (23E1188-DUP1)			Prepared: 05/23/23 08:45 Analyzed: 05/30/23 12:24									
QC Source Sample: Non-SDG (A3E1787-01)												
1,3-Dichlorobenzene	ND	22.3	44.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	22.3	44.7	ug/kg dry	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	89.3	179	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	22.3	44.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	22.3	44.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	22.3	44.7	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	22.3	44.7	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	22.3	44.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	22.3	44.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	44.7	89.3	ug/kg dry	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	44.7	89.3	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	44.7	89.3	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	44.7	89.3	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	44.7	89.3	ug/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	22.3	44.7	ug/kg dry	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	89.3	179	ug/kg dry	50	---	ND	---	---	---	30%	
2-Hexanone	ND	447	893	ug/kg dry	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	44.7	89.3	ug/kg dry	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	44.7	89.3	ug/kg dry	50	---	ND	---	---	---	30%	
Methylene chloride	ND	447	893	ug/kg dry	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	447	893	ug/kg dry	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	44.7	89.3	ug/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	89.3	179	ug/kg dry	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	22.3	44.7	ug/kg dry	50	---	ND	---	---	---	30%	
Styrene	ND	44.7	89.3	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	44.7	44.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	44.7	89.3	ug/kg dry	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	22.3	44.7	ug/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	44.7	89.3	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	223	447	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	223	447	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	22.3	44.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	22.3	44.7	ug/kg dry	50	---	ND	---	---	---	30%	

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E1188 - EPA 5035A												
Soil												
Duplicate (23E1188-DUP1)												
Prepared: 05/23/23 08:45 Analyzed: 05/30/23 12:24												
QC Source Sample: Non-SDG (A3E1787-01)												
Trichloroethene (TCE)	ND	22.3	44.7	ug/kg dry	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	179	179	ug/kg dry	50	---	ND	---	---	---	30%	Q-54j
1,2,3-Trichloropropane	ND	44.7	89.3	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	44.7	89.3	ug/kg dry	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	44.7	89.3	ug/kg dry	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	22.3	44.7	ug/kg dry	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	44.7	89.3	ug/kg dry	50	---	ND	---	---	---	30%	
o-Xylene	ND	22.3	44.7	ug/kg dry	50	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 97% Limits: 80-120% Dilution: 1x												
Toluene-d8 (Surr) 100% 80-120% "												
4-Bromofluorobenzene (Surr) 100% 79-120% "												

Matrix Spike (23E1188-MS1)												
Prepared: 05/23/23 09:30 Analyzed: 05/30/23 17:55												
QC Source Sample: Non-SDG (A3E1763-01)												
5035A/8260D												
Acetone	3110	765	1530	ug/kg dry	50	3060	ND	102	36-164%	---	---	
Acrylonitrile	1560	76.5	153	ug/kg dry	50	1530	ND	102	65-134%	---	---	
Benzene	1580	7.65	15.3	ug/kg dry	50	1530	ND	103	77-121%	---	---	
Bromobenzene	1590	19.1	38.2	ug/kg dry	50	1530	ND	103	78-121%	---	---	
Bromochloromethane	1640	38.2	76.5	ug/kg dry	50	1530	ND	107	78-125%	---	---	
Bromodichloromethane	1390	38.2	76.5	ug/kg dry	50	1530	ND	91	75-127%	---	---	
Bromoform	994	153	153	ug/kg dry	50	1530	ND	65	67-132%	---	---	Q-54f
Bromomethane	1470	765	765	ug/kg dry	50	1530	ND	96	53-143%	---	---	
2-Butanone (MEK)	3140	382	765	ug/kg dry	50	3060	ND	103	51-148%	---	---	
n-Butylbenzene	1720	38.2	76.5	ug/kg dry	50	1530	ND	112	70-128%	---	---	
sec-Butylbenzene	1750	38.2	76.5	ug/kg dry	50	1530	ND	114	73-126%	---	---	
tert-Butylbenzene	1740	38.2	76.5	ug/kg dry	50	1530	ND	114	73-125%	---	---	
Carbon disulfide	1420	382	765	ug/kg dry	50	1530	ND	93	63-132%	---	---	
Carbon tetrachloride	1190	76.5	76.5	ug/kg dry	50	1530	ND	77	70-135%	---	---	Q-54d
Chlorobenzene	1610	19.1	38.2	ug/kg dry	50	1530	ND	105	79-120%	---	---	
Chloroethane	1670	382	765	ug/kg dry	50	1530	ND	109	59-139%	---	---	
Chloroform	1570	38.2	76.5	ug/kg dry	50	1530	ND	102	78-123%	---	---	
Chloromethane	1030	191	382	ug/kg dry	50	1530	ND	67	50-136%	---	---	

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E1188 - EPA 5035A						Soil						
Matrix Spike (23E1188-MS1)			Prepared: 05/23/23 09:30 Analyzed: 05/30/23 17:55									
QC Source Sample: Non-SDG (A3E1763-01)												
2-Chlorotoluene	1650	38.2	76.5	ug/kg dry	50	1530	ND	108	75-122%	---	---	
4-Chlorotoluene	1670	38.2	76.5	ug/kg dry	50	1530	ND	109	72-124%	---	---	
Dibromochloromethane	1310	153	153	ug/kg dry	50	1530	ND	86	74-126%	---	---	Q-54I
1,2-Dibromo-3-chloropropane	1130	382	382	ug/kg dry	50	1530	ND	74	61-132%	---	---	Q-54c
1,2-Dibromoethane (EDB)	1530	38.2	76.5	ug/kg dry	50	1530	ND	100	78-122%	---	---	
Dibromomethane	1610	38.2	76.5	ug/kg dry	50	1530	ND	105	78-125%	---	---	
1,2-Dichlorobenzene	1640	19.1	38.2	ug/kg dry	50	1530	ND	107	78-121%	---	---	
1,3-Dichlorobenzene	1660	19.1	38.2	ug/kg dry	50	1530	ND	109	77-121%	---	---	
1,4-Dichlorobenzene	1580	19.1	38.2	ug/kg dry	50	1530	ND	103	75-120%	---	---	
Dichlorodifluoromethane	776	76.5	153	ug/kg dry	50	1530	ND	51	29-149%	---	---	
1,1-Dichloroethane	1600	19.1	38.2	ug/kg dry	50	1530	ND	104	76-125%	---	---	
1,2-Dichloroethane (EDC)	1680	19.1	38.2	ug/kg dry	50	1530	ND	110	73-128%	---	---	
1,1-Dichloroethene	1650	19.1	38.2	ug/kg dry	50	1530	ND	108	70-131%	---	---	
cis-1,2-Dichloroethene	1640	19.1	38.2	ug/kg dry	50	1530	ND	107	77-123%	---	---	
trans-1,2-Dichloroethene	1600	19.1	38.2	ug/kg dry	50	1530	ND	105	74-125%	---	---	
1,2-Dichloropropane	1570	19.1	38.2	ug/kg dry	50	1530	ND	103	76-123%	---	---	
1,3-Dichloropropane	1630	38.2	76.5	ug/kg dry	50	1530	ND	106	77-121%	---	---	
2,2-Dichloropropane	1350	38.2	76.5	ug/kg dry	50	1530	ND	88	67-133%	---	---	
1,1-Dichloropropene	1680	38.2	76.5	ug/kg dry	50	1530	ND	110	76-125%	---	---	
cis-1,3-Dichloropropene	1500	38.2	76.5	ug/kg dry	50	1530	ND	98	74-126%	---	---	
trans-1,3-Dichloropropene	1420	38.2	76.5	ug/kg dry	50	1530	ND	93	71-130%	---	---	
Ethylbenzene	1590	19.1	38.2	ug/kg dry	50	1530	ND	104	76-122%	---	---	
Hexachlorobutadiene	1650	76.5	153	ug/kg dry	50	1530	ND	108	61-135%	---	---	
2-Hexanone	3080	382	765	ug/kg dry	50	3060	ND	101	53-145%	---	---	
Isopropylbenzene	1670	38.2	76.5	ug/kg dry	50	1530	ND	109	68-134%	---	---	
4-Isopropyltoluene	1750	38.2	76.5	ug/kg dry	50	1530	ND	114	73-127%	---	---	
Methylene chloride	1590	382	765	ug/kg dry	50	1530	ND	104	70-128%	---	---	
4-Methyl-2-pentanone (MiBK)	3220	382	765	ug/kg dry	50	3060	ND	105	65-135%	---	---	
Methyl tert-butyl ether (MTBE)	1500	38.2	76.5	ug/kg dry	50	1530	ND	98	73-125%	---	---	
Naphthalene	1630	76.5	153	ug/kg dry	50	1530	ND	106	62-129%	---	---	
n-Propylbenzene	1710	19.1	38.2	ug/kg dry	50	1530	ND	112	73-125%	---	---	
Styrene	1650	38.2	76.5	ug/kg dry	50	1530	ND	108	76-124%	---	---	
1,1,1,2-Tetrachloroethane	1250	38.2	38.2	ug/kg dry	50	1530	ND	82	78-125%	---	---	Q-54m

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Darwin Thomas, Business Development Director



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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E1188 - EPA 5035A						Soil						
Matrix Spike (23E1188-MS1)			Prepared: 05/23/23 09:30 Analyzed: 05/30/23 17:55									
QC Source Sample: Non-SDG (A3E1763-01)												
1,1,2,2-Tetrachloroethane	1520	38.2	76.5	ug/kg dry	50	1530	ND	99	70-124%	---	---	
Tetrachloroethene (PCE)	1650	19.1	38.2	ug/kg dry	50	1530	ND	108	73-128%	---	---	
Toluene	1550	38.2	76.5	ug/kg dry	50	1530	ND	101	77-121%	---	---	
1,2,3-Trichlorobenzene	1610	191	382	ug/kg dry	50	1530	ND	105	66-130%	---	---	
1,2,4-Trichlorobenzene	1580	191	382	ug/kg dry	50	1530	ND	103	67-129%	---	---	
1,1,1-Trichloroethane	1530	19.1	38.2	ug/kg dry	50	1530	ND	100	73-130%	---	---	
1,1,2-Trichloroethane	1630	19.1	38.2	ug/kg dry	50	1530	ND	106	78-121%	---	---	
Trichloroethene (TCE)	1650	19.1	38.2	ug/kg dry	50	1530	ND	108	77-123%	---	---	
Trichlorofluoromethane	1910	153	153	ug/kg dry	50	1530	ND	125	62-140%	---	---	Q-54j
1,2,3-Trichloropropane	1640	38.2	76.5	ug/kg dry	50	1530	ND	107	73-125%	---	---	
1,2,4-Trimethylbenzene	1670	38.2	76.5	ug/kg dry	50	1530	ND	109	75-123%	---	---	
1,3,5-Trimethylbenzene	1720	38.2	76.5	ug/kg dry	50	1530	ND	113	73-124%	---	---	
Vinyl chloride	1400	19.1	38.2	ug/kg dry	50	1530	ND	91	56-135%	---	---	
m,p-Xylene	3200	38.2	76.5	ug/kg dry	50	3060	ND	104	77-124%	---	---	
o-Xylene	1600	19.1	38.2	ug/kg dry	50	1530	ND	104	77-123%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 97 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>79-120 %</i>		<i>"</i>						

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E1239 - EPA 5035A						Soil						
Blank (23E1239-BLK1)			Prepared: 05/31/23 10:37 Analyzed: 05/31/23 12:02									
<u>5035A/8260D</u>												
Acetone	ND	500	1000	ug/kg wet	50	---	---	---	---	---	---	
Acrylonitrile	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Benzene	ND	5.00	10.0	ug/kg wet	50	---	---	---	---	---	---	
Bromobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Bromochloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromodichloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromoform	ND	100	100	ug/kg wet	50	---	---	---	---	---	---	
Bromomethane	ND	500	500	ug/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
n-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Carbon disulfide	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	50.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Chloroethane	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chloromethane	ND	250	250	ug/kg wet	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromochloromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromomethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	100	100	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E1239 - EPA 5035A						Soil						
Blank (23E1239-BLK1)			Prepared: 05/31/23 10:37 Analyzed: 05/31/23 12:02									
1,2-Dichloropropane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Methylene chloride	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Styrene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	100	100	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 98 % Limits: 80-120 % Dilution: 1x

Apex Laboratories

Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E1239 - EPA 5035A						Soil						
Blank (23E1239-BLK1)						Prepared: 05/31/23 10:37 Analyzed: 05/31/23 12:02						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>79-120 %</i>		<i>"</i>						
LCS (23E1239-BS1)						Prepared: 05/31/23 10:37 Analyzed: 05/31/23 11:06						
5035A/8260D												
Acetone	1990	500	1000	ug/kg wet	50	2000	---	99	80-120%	---	---	
Acrylonitrile	989	50.0	100	ug/kg wet	50	1000	---	99	80-120%	---	---	
Benzene	988	5.00	10.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
Bromobenzene	996	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Bromochloromethane	1030	25.0	50.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
Bromodichloromethane	934	25.0	50.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
Bromoform	689	100	100	ug/kg wet	50	1000	---	69	80-120%	---	---	Q-55
Bromomethane	936	500	500	ug/kg wet	50	1000	---	94	80-120%	---	---	
2-Butanone (MEK)	2020	250	500	ug/kg wet	50	2000	---	101	80-120%	---	---	
n-Butylbenzene	1070	25.0	50.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
sec-Butylbenzene	1080	25.0	50.0	ug/kg wet	50	1000	---	108	80-120%	---	---	
tert-Butylbenzene	1070	25.0	50.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
Carbon disulfide	876	250	500	ug/kg wet	50	1000	---	88	80-120%	---	---	
Carbon tetrachloride	771	50.0	50.0	ug/kg wet	50	1000	---	77	80-120%	---	---	Q-55
Chlorobenzene	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Chloroethane	1010	250	500	ug/kg wet	50	1000	---	101	80-120%	---	---	
Chloroform	983	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Chloromethane	634	250	250	ug/kg wet	50	1000	---	63	80-120%	---	---	Q-55
2-Chlorotoluene	1030	25.0	50.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
4-Chlorotoluene	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Dibromochloromethane	882	50.0	100	ug/kg wet	50	1000	---	88	80-120%	---	---	
1,2-Dibromo-3-chloropropane	808	125	250	ug/kg wet	50	1000	---	81	80-120%	---	---	
1,2-Dibromoethane (EDB)	996	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Dibromomethane	1020	25.0	50.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
1,2-Dichlorobenzene	1040	12.5	25.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,3-Dichlorobenzene	1040	12.5	25.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,4-Dichlorobenzene	1000	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Dichlorodifluoromethane	458	100	100	ug/kg wet	50	1000	---	46	80-120%	---	---	Q-55
1,1-Dichloroethane	996	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E1239 - EPA 5035A						Soil						
LCS (23E1239-BS1)			Prepared: 05/31/23 10:37 Analyzed: 05/31/23 11:06									
1,2-Dichloroethane (EDC)	1060	12.5	25.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
1,1-Dichloroethene	1000	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
cis-1,2-Dichloroethene	1030	12.5	25.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
trans-1,2-Dichloroethene	986	12.5	25.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
1,2-Dichloropropane	999	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
1,3-Dichloropropane	1050	25.0	50.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
2,2-Dichloropropane	942	25.0	50.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
1,1-Dichloropropene	1030	25.0	50.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
cis-1,3-Dichloropropene	998	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
trans-1,3-Dichloropropene	953	25.0	50.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
Ethylbenzene	1000	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Hexachlorobutadiene	1010	50.0	100	ug/kg wet	50	1000	---	101	80-120%	---	---	
2-Hexanone	2050	250	500	ug/kg wet	50	2000	---	103	80-120%	---	---	
Isopropylbenzene	1050	25.0	50.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
4-Isopropyltoluene	1090	25.0	50.0	ug/kg wet	50	1000	---	109	80-120%	---	---	
Methylene chloride	996	250	500	ug/kg wet	50	1000	---	100	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	2070	250	500	ug/kg wet	50	2000	---	104	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	950	25.0	50.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
Naphthalene	1040	50.0	100	ug/kg wet	50	1000	---	104	80-120%	---	---	
n-Propylbenzene	1060	12.5	25.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
Styrene	1050	25.0	50.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
1,1,1,2-Tetrachloroethane	840	12.5	25.0	ug/kg wet	50	1000	---	84	80-120%	---	---	
1,1,2,2-Tetrachloroethane	980	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Tetrachloroethene (PCE)	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
Toluene	970	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
1,2,3-Trichlorobenzene	1040	125	250	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,2,4-Trichlorobenzene	1010	125	250	ug/kg wet	50	1000	---	101	80-120%	---	---	
1,1,1-Trichloroethane	961	12.5	25.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
1,1,2-Trichloroethane	1030	12.5	25.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
Trichloroethene (TCE)	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Trichlorofluoromethane	516	100	100	ug/kg wet	50	1000	---	52	80-120%	---	---	Q-55
1,2,3-Trichloropropane	1030	25.0	50.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
1,2,4-Trimethylbenzene	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,3,5-Trimethylbenzene	1070	25.0	50.0	ug/kg wet	50	1000	---	107	80-120%	---	---	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E1239 - EPA 5035A						Soil						
LCS (23E1239-BS1)			Prepared: 05/31/23 10:37 Analyzed: 05/31/23 11:06									
Vinyl chloride	842	12.5	25.0	ug/kg wet	50	1000	---	84	80-120%	---	---	
m,p-Xylene	2020	25.0	50.0	ug/kg wet	50	2000	---	101	80-120%	---	---	
o-Xylene	1000	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 97 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (23E1239-DUP1) Prepared: 05/30/23 19:35 Analyzed: 05/31/23 15:26 **H-01, V-16**

QC Source Sample: Non-SDG (A3E1174-01)

Acetone	ND	582	1160	ug/kg dry	50	---	ND	---	---	---	30%	
Acrylonitrile	ND	58.2	116	ug/kg dry	50	---	ND	---	---	---	30%	
Benzene	ND	5.82	11.6	ug/kg dry	50	---	ND	---	---	---	30%	
Bromobenzene	ND	14.6	29.1	ug/kg dry	50	---	ND	---	---	---	30%	
Bromochloromethane	ND	29.1	58.2	ug/kg dry	50	---	ND	---	---	---	30%	
Bromodichloromethane	ND	29.1	58.2	ug/kg dry	50	---	ND	---	---	---	30%	
Bromoform	ND	116	116	ug/kg dry	50	---	ND	---	---	---	30%	
Bromomethane	ND	582	582	ug/kg dry	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	291	582	ug/kg dry	50	---	ND	---	---	---	30%	
n-Butylbenzene	3650	29.1	58.2	ug/kg dry	50	---	3710	---	---	1	30%	M-02
sec-Butylbenzene	2110	29.1	58.2	ug/kg dry	50	---	2120	---	---	0.6	30%	
tert-Butylbenzene	ND	29.1	58.2	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon disulfide	ND	291	582	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	58.2	58.2	ug/kg dry	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	14.6	29.1	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroethane	ND	291	582	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroform	ND	29.1	58.2	ug/kg dry	50	---	ND	---	---	---	30%	
Chloromethane	ND	291	291	ug/kg dry	50	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	29.1	58.2	ug/kg dry	50	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	29.1	58.2	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromochloromethane	ND	58.2	116	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	146	291	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	29.1	58.2	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromomethane	ND	29.1	58.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	14.6	29.1	ug/kg dry	50	---	ND	---	---	---	30%	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23E1239 - EPA 5035A						Soil							
Duplicate (23E1239-DUP1)			Prepared: 05/30/23 19:35 Analyzed: 05/31/23 15:26						H-01, V-16				
QC Source Sample: Non-SDG (A3E1174-01)													
1,3-Dichlorobenzene	ND	14.6	29.1	ug/kg dry	50	---	ND	---	---	---	30%		
1,4-Dichlorobenzene	ND	14.6	29.1	ug/kg dry	50	---	ND	---	---	---	30%		
Dichlorodifluoromethane	ND	116	116	ug/kg dry	50	---	ND	---	---	---	30%		
1,1-Dichloroethane	ND	14.6	29.1	ug/kg dry	50	---	ND	---	---	---	30%		
1,2-Dichloroethane (EDC)	ND	14.6	29.1	ug/kg dry	50	---	ND	---	---	---	30%		
1,1-Dichloroethene	ND	14.6	29.1	ug/kg dry	50	---	ND	---	---	---	30%		
cis-1,2-Dichloroethene	ND	14.6	29.1	ug/kg dry	50	---	ND	---	---	---	30%		
trans-1,2-Dichloroethene	ND	14.6	29.1	ug/kg dry	50	---	ND	---	---	---	30%		
1,2-Dichloropropane	ND	14.6	29.1	ug/kg dry	50	---	ND	---	---	---	30%		
1,3-Dichloropropane	ND	29.1	58.2	ug/kg dry	50	---	ND	---	---	---	30%		
2,2-Dichloropropane	ND	29.1	58.2	ug/kg dry	50	---	ND	---	---	---	30%		
1,1-Dichloropropene	ND	29.1	58.2	ug/kg dry	50	---	ND	---	---	---	30%		
cis-1,3-Dichloropropene	ND	29.1	58.2	ug/kg dry	50	---	ND	---	---	---	30%		
trans-1,3-Dichloropropene	ND	29.1	58.2	ug/kg dry	50	---	ND	---	---	---	30%		
Ethylbenzene	603	14.6	29.1	ug/kg dry	50	---	606	---	---	0.6	30%		
Hexachlorobutadiene	ND	58.2	116	ug/kg dry	50	---	ND	---	---	---	30%		
2-Hexanone	ND	291	582	ug/kg dry	50	---	ND	---	---	---	30%		
Isopropylbenzene	582	29.1	58.2	ug/kg dry	50	---	576	---	---	0.9	30%		
4-Isopropyltoluene	1820	29.1	58.2	ug/kg dry	50	---	1610	---	---	12	30%	M-02	
Methylene chloride	ND	291	582	ug/kg dry	50	---	ND	---	---	---	30%		
4-Methyl-2-pentanone (MiBK)	ND	949	949	ug/kg dry	50	---	ND	---	---	---	30%	R-02	
Methyl tert-butyl ether (MTBE)	ND	29.1	58.2	ug/kg dry	50	---	ND	---	---	---	30%		
Naphthalene	ND	2460	2460	ug/kg dry	50	---	2590	---	---	***	30%	R-02	
n-Propylbenzene	2060	14.6	29.1	ug/kg dry	50	---	2090	---	---	2	30%		
Styrene	ND	29.1	58.2	ug/kg dry	50	---	ND	---	---	---	30%		
1,1,1,2-Tetrachloroethane	ND	14.6	29.1	ug/kg dry	50	---	ND	---	---	---	30%		
1,1,2,2-Tetrachloroethane	ND	81.5	81.5	ug/kg dry	50	---	ND	---	---	---	30%	R-02	
Tetrachloroethene (PCE)	ND	14.6	29.1	ug/kg dry	50	---	ND	---	---	---	30%		
Toluene	171	29.1	58.2	ug/kg dry	50	---	172	---	---	1	30%		
1,2,3-Trichlorobenzene	ND	291	291	ug/kg dry	50	---	ND	---	---	---	30%		
1,2,4-Trichlorobenzene	ND	146	291	ug/kg dry	50	---	ND	---	---	---	30%		
1,1,1-Trichloroethane	ND	14.6	29.1	ug/kg dry	50	---	ND	---	---	---	30%		
1,1,2-Trichloroethane	ND	268	268	ug/kg dry	50	---	ND	---	---	---	30%	R-02	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23E1239 - EPA 5035A						Soil							
Duplicate (23E1239-DUP1)			Prepared: 05/30/23 19:35 Analyzed: 05/31/23 15:26						H-01, V-16				
QC Source Sample: Non-SDG (A3E1174-01)													
Trichloroethene (TCE)	ND	14.6	29.1	ug/kg dry	50	---	ND	---	---	---	30%		
Trichlorofluoromethane	ND	116	116	ug/kg dry	50	---	ND	---	---	---	30%		
1,2,3-Trichloropropane	ND	751	751	ug/kg dry	50	---	ND	---	---	---	30%	R-02	
1,2,4-Trimethylbenzene	15000	29.1	58.2	ug/kg dry	50	---	15300	---	---	2	30%	E	
1,3,5-Trimethylbenzene	4450	29.1	58.2	ug/kg dry	50	---	4480	---	---	0.8	30%		
Vinyl chloride	ND	14.6	29.1	ug/kg dry	50	---	ND	---	---	---	30%		
m,p-Xylene	3070	29.1	58.2	ug/kg dry	50	---	3090	---	---	0.8	30%		
o-Xylene	1890	14.6	29.1	ug/kg dry	50	---	1890	---	---	0.2	30%		
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 96 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>							
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>"</i>							
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>79-120 %</i>		<i>"</i>							

Matrix Spike (23E1239-MS1)						Prepared: 05/25/23 10:30 Analyzed: 05/31/23 17:08						
QC Source Sample: Non-SDG (A3E1756-01)												
5035A/8260D												
Acetone	2690	595	1190	ug/kg dry	50	2380	ND	113	36-164%	---	---	
Acrylonitrile	1230	59.5	119	ug/kg dry	50	1190	ND	103	65-134%	---	---	
Benzene	1140	5.95	11.9	ug/kg dry	50	1190	ND	96	77-121%	---	---	
Bromobenzene	1190	14.9	29.7	ug/kg dry	50	1190	ND	100	78-121%	---	---	
Bromochloromethane	1140	29.7	59.5	ug/kg dry	50	1190	ND	96	78-125%	---	---	
Bromodichloromethane	1050	29.7	59.5	ug/kg dry	50	1190	ND	88	75-127%	---	---	
Bromoform	844	119	119	ug/kg dry	50	1190	ND	71	67-132%	---	---	Q-54b
Bromomethane	1070	595	595	ug/kg dry	50	1190	ND	89	53-143%	---	---	
2-Butanone (MEK)	2640	297	595	ug/kg dry	50	2380	ND	111	51-148%	---	---	
n-Butylbenzene	1290	29.7	59.5	ug/kg dry	50	1190	ND	108	70-128%	---	---	
sec-Butylbenzene	1280	29.7	59.5	ug/kg dry	50	1190	ND	108	73-126%	---	---	
tert-Butylbenzene	1290	29.7	59.5	ug/kg dry	50	1190	ND	108	73-125%	---	---	
Carbon disulfide	982	297	595	ug/kg dry	50	1190	ND	82	63-132%	---	---	
Carbon tetrachloride	939	59.5	59.5	ug/kg dry	50	1190	ND	79	70-135%	---	---	Q-54i
Chlorobenzene	1210	14.9	29.7	ug/kg dry	50	1190	ND	102	79-120%	---	---	
Chloroethane	982	297	595	ug/kg dry	50	1190	ND	82	59-139%	---	---	
Chloroform	1140	29.7	59.5	ug/kg dry	50	1190	ND	96	78-123%	---	---	
Chloromethane	636	297	297	ug/kg dry	50	1190	ND	53	50-136%	---	---	Q-54e

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E1239 - EPA 5035A						Soil						
Matrix Spike (23E1239-MS1)			Prepared: 05/25/23 10:30 Analyzed: 05/31/23 17:08									
QC Source Sample: Non-SDG (A3E1756-01)												
2-Chlorotoluene	1210	29.7	59.5	ug/kg dry	50	1190	ND	102	75-122%	---	---	
4-Chlorotoluene	1220	29.7	59.5	ug/kg dry	50	1190	ND	102	72-124%	---	---	
Dibromochloromethane	1060	59.5	119	ug/kg dry	50	1190	ND	89	74-126%	---	---	
1,2-Dibromo-3-chloropropane	1150	149	297	ug/kg dry	50	1190	ND	96	61-132%	---	---	
1,2-Dibromoethane (EDB)	1230	29.7	59.5	ug/kg dry	50	1190	ND	103	78-122%	---	---	
Dibromomethane	1190	29.7	59.5	ug/kg dry	50	1190	ND	100	78-125%	---	---	
1,2-Dichlorobenzene	1240	14.9	29.7	ug/kg dry	50	1190	ND	104	78-121%	---	---	
1,3-Dichlorobenzene	1210	14.9	29.7	ug/kg dry	50	1190	ND	102	77-121%	---	---	
1,4-Dichlorobenzene	1180	14.9	29.7	ug/kg dry	50	1190	ND	99	75-120%	---	---	
Dichlorodifluoromethane	458	119	119	ug/kg dry	50	1190	ND	38	29-149%	---	---	Q-54k
1,1-Dichloroethane	1160	14.9	29.7	ug/kg dry	50	1190	ND	98	76-125%	---	---	
1,2-Dichloroethane (EDC)	1250	14.9	29.7	ug/kg dry	50	1190	ND	105	73-128%	---	---	
1,1-Dichloroethene	1170	14.9	29.7	ug/kg dry	50	1190	ND	98	70-131%	---	---	
cis-1,2-Dichloroethene	1190	14.9	29.7	ug/kg dry	50	1190	ND	100	77-123%	---	---	
trans-1,2-Dichloroethene	1160	14.9	29.7	ug/kg dry	50	1190	ND	97	74-125%	---	---	
1,2-Dichloropropane	1150	14.9	29.7	ug/kg dry	50	1190	ND	97	76-123%	---	---	
1,3-Dichloropropane	1250	29.7	59.5	ug/kg dry	50	1190	ND	105	77-121%	---	---	
2,2-Dichloropropane	1030	29.7	59.5	ug/kg dry	50	1190	ND	87	67-133%	---	---	
1,1-Dichloropropene	1240	29.7	59.5	ug/kg dry	50	1190	ND	104	76-125%	---	---	
cis-1,3-Dichloropropene	1140	29.7	59.5	ug/kg dry	50	1190	ND	95	74-126%	---	---	
trans-1,3-Dichloropropene	1100	29.7	59.5	ug/kg dry	50	1190	ND	93	71-130%	---	---	
Ethylbenzene	1200	14.9	29.7	ug/kg dry	50	1190	ND	100	76-122%	---	---	
Hexachlorobutadiene	1290	59.5	119	ug/kg dry	50	1190	ND	108	61-135%	---	---	
2-Hexanone	2950	297	595	ug/kg dry	50	2380	ND	124	53-145%	---	---	
Isopropylbenzene	1270	29.7	59.5	ug/kg dry	50	1190	ND	107	68-134%	---	---	
4-Isopropyltoluene	1330	29.7	59.5	ug/kg dry	50	1190	33.9	109	73-127%	---	---	
Methylene chloride	1110	297	595	ug/kg dry	50	1190	ND	93	70-128%	---	---	
4-Methyl-2-pentanone (MiBK)	2780	297	595	ug/kg dry	50	2380	ND	117	65-135%	---	---	
Methyl tert-butyl ether (MTBE)	1160	29.7	59.5	ug/kg dry	50	1190	ND	97	73-125%	---	---	
Naphthalene	1430	59.5	119	ug/kg dry	50	1190	ND	120	62-129%	---	---	
n-Propylbenzene	1250	14.9	29.7	ug/kg dry	50	1190	ND	105	73-125%	---	---	
Styrene	1230	29.7	59.5	ug/kg dry	50	1190	ND	103	76-124%	---	---	
1,1,1,2-Tetrachloroethane	1030	14.9	29.7	ug/kg dry	50	1190	ND	86	78-125%	---	---	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E1239 - EPA 5035A						Soil						
Matrix Spike (23E1239-MS1)			Prepared: 05/25/23 10:30 Analyzed: 05/31/23 17:08									
QC Source Sample: Non-SDG (A3E1756-01)												
1,1,2,2-Tetrachloroethane	1210	29.7	59.5	ug/kg dry	50	1190	ND	102	70-124%	---	---	
Tetrachloroethene (PCE)	1240	14.9	29.7	ug/kg dry	50	1190	ND	104	73-128%	---	---	
Toluene	1150	29.7	59.5	ug/kg dry	50	1190	ND	97	77-121%	---	---	
1,2,3-Trichlorobenzene	1250	149	297	ug/kg dry	50	1190	ND	105	66-130%	---	---	
1,2,4-Trichlorobenzene	1230	149	297	ug/kg dry	50	1190	ND	104	67-129%	---	---	
1,1,1-Trichloroethane	1160	14.9	29.7	ug/kg dry	50	1190	ND	97	73-130%	---	---	
1,1,2-Trichloroethane	1240	14.9	29.7	ug/kg dry	50	1190	ND	104	78-121%	---	---	
Trichloroethene (TCE)	1230	14.9	29.7	ug/kg dry	50	1190	ND	103	77-123%	---	---	
Trichlorofluoromethane	460	119	119	ug/kg dry	50	1190	ND	39	62-140%	---	---	Q-54h
1,2,3-Trichloropropane	1290	29.7	59.5	ug/kg dry	50	1190	ND	108	73-125%	---	---	
1,2,4-Trimethylbenzene	1220	29.7	59.5	ug/kg dry	50	1190	ND	102	75-123%	---	---	
1,3,5-Trimethylbenzene	1260	29.7	59.5	ug/kg dry	50	1190	ND	106	73-124%	---	---	
Vinyl chloride	899	14.9	29.7	ug/kg dry	50	1190	ND	75	56-135%	---	---	
m,p-Xylene	2370	29.7	59.5	ug/kg dry	50	2380	ND	100	77-124%	---	---	
o-Xylene	1200	14.9	29.7	ug/kg dry	50	1190	ND	101	77-123%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 96 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>79-120 %</i>		<i>"</i>						

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
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QUALITY CONTROL (QC) SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0093 - EPA 1311/5030B TCLP Volatiles						Water						
Blank (23F0093-BLK1)						Prepared: 06/02/23 14:47 Analyzed: 06/03/23 01:28						TCLPa
<u>1311/8260D</u>												
Benzene	ND	6.25	12.5	ug/L	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/L	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>104 %</i>		<i>80-120 %</i>		<i>"</i>						

LCS (23F0093-BS1)						Prepared: 06/02/23 14:47 Analyzed: 06/03/23 00:43						TCLPa
<u>1311/8260D</u>												
Benzene	1080	6.25	12.5	ug/L	50	1000	---	108	80-120%	---	---	
2-Butanone (MEK)	2010	250	500	ug/L	50	2000	---	100	80-120%	---	---	
Carbon tetrachloride	1220	25.0	50.0	ug/L	50	1000	---	122	80-120%	---	---	Q-56
Chlorobenzene	1030	12.5	25.0	ug/L	50	1000	---	103	80-120%	---	---	
Chloroform	1060	25.0	50.0	ug/L	50	1000	---	106	80-120%	---	---	
1,4-Dichlorobenzene	1040	12.5	25.0	ug/L	50	1000	---	104	80-120%	---	---	
1,1-Dichloroethene	1230	12.5	25.0	ug/L	50	1000	---	123	80-120%	---	---	Q-56
1,2-Dichloroethane (EDC)	1100	12.5	25.0	ug/L	50	1000	---	110	80-120%	---	---	
Tetrachloroethene (PCE)	1040	12.5	25.0	ug/L	50	1000	---	104	80-120%	---	---	
Trichloroethene (TCE)	1060	12.5	25.0	ug/L	50	1000	---	106	80-120%	---	---	
Vinyl chloride	1080	12.5	25.0	ug/L	50	1000	---	108	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>92 %</i>		<i>80-120 %</i>		<i>"</i>						

Duplicate (23F0093-DUP1)						Prepared: 06/02/23 14:47 Analyzed: 06/03/23 02:13					
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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
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QUALITY CONTROL (QC) SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0093 - EPA 1311/5030B TCLP Volatiles						Water						
Duplicate (23F0093-DUP1)			Prepared: 06/02/23 14:47 Analyzed: 06/03/23 02:13									
QC Source Sample: FC-052323-2115 (A3E1675-01)												
1311/8260D												
Benzene	ND	6.25	12.5	ug/L	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	250	500	ug/L	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Chloroform	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>"</i>						

Matrix Spike (23F0093-MS1)						Prepared: 06/02/23 14:47 Analyzed: 06/03/23 02:57						
QC Source Sample: Non-SDG (A3E1681-01)												
1311/8260D												
Benzene	1050	6.25	12.5	ug/L	50	1000	ND	105	79-120%	---	---	
2-Butanone (MEK)	2120	250	500	ug/L	50	2000	ND	106	56-143%	---	---	
Carbon tetrachloride	1220	25.0	50.0	ug/L	50	1000	ND	122	72-136%	---	---	Q-54
Chlorobenzene	1010	12.5	25.0	ug/L	50	1000	ND	101	80-120%	---	---	
Chloroform	1160	25.0	50.0	ug/L	50	1000	103	106	79-124%	---	---	
1,4-Dichlorobenzene	1010	12.5	25.0	ug/L	50	1000	ND	101	79-120%	---	---	
1,1-Dichloroethene	1180	12.5	25.0	ug/L	50	1000	ND	118	71-131%	---	---	Q-54a
1,2-Dichloroethane (EDC)	1070	12.5	25.0	ug/L	50	1000	ND	107	73-128%	---	---	
Tetrachloroethene (PCE)	990	12.5	25.0	ug/L	50	1000	ND	99	74-129%	---	---	
Trichloroethene (TCE)	990	12.5	25.0	ug/L	50	1000	ND	99	79-123%	---	---	
Vinyl chloride	1100	12.5	25.0	ug/L	50	1000	ND	110	58-137%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
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QUALITY CONTROL (QC) SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0093 - EPA 1311/5030B TCLP Volatiles						Water						
Matrix Spike (23F0093-MS1)						Prepared: 06/02/23 14:47 Analyzed: 06/03/23 02:57						
QC Source Sample: Non-SDG (A3E1681-01)												
Surr: 4-Bromofluorobenzene (Surr)		Recovery: 93 %		Limits: 80-120 %		Dilution: 1x						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0172 - EPA 3546						Solid						
Blank (23F0172-BLK1)			Prepared: 06/06/23 11:23 Analyzed: 06/06/23 16:35									
<u>EPA 8270E</u>												
Acenaphthene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Chrysene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Fluoranthene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Fluorene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
Naphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
Phenanthrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Pyrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Carbazole	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Dibenzofuran	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
2-Chlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
2-Methylphenol	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Nitrophenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
4-Nitrophenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Phenol	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	----------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0172 - EPA 3546						Solid						
Blank (23F0172-BLK1)			Prepared: 06/06/23 11:23 Analyzed: 06/06/23 16:35									
2,3,5,6-Tetrachlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	20.0	40.0	ug/kg wet	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Diethylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Dimethylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2,2'-Oxybis(1-Chloropropane)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Hexachloroethane	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Aniline	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
4-Chloroaniline	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
3-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
4-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
Nitrobenzene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Benzoic acid	ND	167	333	ug/kg wet	1	---	---	---	---	---	---	
Benzyl alcohol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Isophorone	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0172 - EPA 3546						Solid						
Blank (23F0172-BLK1)			Prepared: 06/06/23 11:23 Analyzed: 06/06/23 16:35									
Azobenzene (1,2-DPH)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Ethylhexyl) adipate	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	Q-52
1,2-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
Pyridine	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 1x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>89 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>105 %</i>		<i>33-122 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>101 %</i>		<i>54-127 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>93 %</i>		<i>35-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>66 %</i>		<i>39-132 %</i>		<i>"</i>						

LCS (23F0172-BS1)			Prepared: 06/06/23 11:23 Analyzed: 06/06/23 17:10									Q-18
EPA 8270E												
Acenaphthene	506	5.32	10.7	ug/kg wet	4	533	---	95	40-123%	---	---	
Acenaphthylene	517	5.32	10.7	ug/kg wet	4	533	---	97	32-132%	---	---	
Anthracene	517	5.32	10.7	ug/kg wet	4	533	---	97	47-123%	---	---	
Benz(a)anthracene	497	5.32	10.7	ug/kg wet	4	533	---	93	49-126%	---	---	
Benzo(a)pyrene	470	8.00	16.0	ug/kg wet	4	533	---	88	45-129%	---	---	
Benzo(b)fluoranthene	467	8.00	16.0	ug/kg wet	4	533	---	88	45-132%	---	---	
Benzo(k)fluoranthene	465	8.00	16.0	ug/kg wet	4	533	---	87	47-132%	---	---	
Benzo(g,h,i)perylene	532	5.32	10.7	ug/kg wet	4	533	---	100	43-134%	---	---	
Chrysene	510	5.32	10.7	ug/kg wet	4	533	---	96	50-124%	---	---	
Dibenz(a,h)anthracene	513	5.32	10.7	ug/kg wet	4	533	---	96	45-134%	---	---	
Fluoranthene	517	5.32	10.7	ug/kg wet	4	533	---	97	50-127%	---	---	
Fluorene	525	5.32	10.7	ug/kg wet	4	533	---	98	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	482	5.32	10.7	ug/kg wet	4	533	---	90	45-133%	---	---	
1-Methylnaphthalene	498	10.7	21.3	ug/kg wet	4	533	---	93	40-120%	---	---	
2-Methylnaphthalene	526	10.7	21.3	ug/kg wet	4	533	---	99	38-122%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0172 - EPA 3546						Solid						
LCS (23F0172-BS1)						Prepared: 06/06/23 11:23 Analyzed: 06/06/23 17:10						Q-18
Naphthalene	507	10.7	21.3	ug/kg wet	4	533	---	95	35-123%	---	---	
Phenanthrene	495	5.32	10.7	ug/kg wet	4	533	---	93	50-121%	---	---	
Pyrene	507	5.32	10.7	ug/kg wet	4	533	---	95	47-127%	---	---	
Carbazole	582	8.00	16.0	ug/kg wet	4	533	---	109	50-123%	---	---	
Dibenzofuran	521	5.32	10.7	ug/kg wet	4	533	---	98	44-120%	---	---	
2-Chlorophenol	551	26.7	53.2	ug/kg wet	4	533	---	103	34-121%	---	---	
4-Chloro-3-methylphenol	541	53.2	107	ug/kg wet	4	533	---	101	45-122%	---	---	
2,4-Dichlorophenol	556	26.7	53.2	ug/kg wet	4	533	---	104	40-122%	---	---	
2,4-Dimethylphenol	673	26.7	53.2	ug/kg wet	4	533	---	126	30-127%	---	---	
2,4-Dinitrophenol	370	133	267	ug/kg wet	4	533	---	69	10-137%	---	---	
4,6-Dinitro-2-methylphenol	629	133	267	ug/kg wet	4	533	---	118	29-132%	---	---	
2-Methylphenol	615	13.3	26.7	ug/kg wet	4	533	---	115	32-122%	---	---	
3+4-Methylphenol(s)	600	13.3	26.7	ug/kg wet	4	533	---	113	34-120%	---	---	
2-Nitrophenol	602	53.2	107	ug/kg wet	4	533	---	113	36-123%	---	---	
4-Nitrophenol	490	53.2	107	ug/kg wet	4	533	---	92	30-132%	---	---	
Pentachlorophenol (PCP)	286	53.2	107	ug/kg wet	4	533	---	54	25-133%	---	---	Q-31
Phenol	666	10.7	21.3	ug/kg wet	4	533	---	125	34-121%	---	---	Q-41, Q-29
2,3,4,6-Tetrachlorophenol	457	26.7	53.2	ug/kg wet	4	533	---	86	44-125%	---	---	
2,3,5,6-Tetrachlorophenol	445	26.7	53.2	ug/kg wet	4	533	---	83	40-120%	---	---	
2,4,5-Trichlorophenol	545	26.7	53.2	ug/kg wet	4	533	---	102	41-124%	---	---	
2,4,6-Trichlorophenol	490	26.7	53.2	ug/kg wet	4	533	---	92	39-126%	---	---	
Bis(2-ethylhexyl)phthalate	504	80.0	160	ug/kg wet	4	533	---	95	51-133%	---	---	
Butyl benzyl phthalate	513	53.2	107	ug/kg wet	4	533	---	96	48-132%	---	---	
Diethylphthalate	525	53.2	107	ug/kg wet	4	533	---	99	50-124%	---	---	
Dimethylphthalate	522	53.2	107	ug/kg wet	4	533	---	98	48-124%	---	---	
Di-n-butylphthalate	538	53.2	107	ug/kg wet	4	533	---	101	51-128%	---	---	
Di-n-octyl phthalate	429	53.2	107	ug/kg wet	4	533	---	81	45-140%	---	---	
N-Nitrosodimethylamine	497	13.3	26.7	ug/kg wet	4	533	---	93	23-120%	---	---	
N-Nitroso-di-n-propylamine	577	13.3	26.7	ug/kg wet	4	533	---	108	36-120%	---	---	
N-Nitrosodiphenylamine	525	13.3	26.7	ug/kg wet	4	533	---	98	38-127%	---	---	
Bis(2-Chloroethoxy) methane	547	13.3	26.7	ug/kg wet	4	533	---	103	36-121%	---	---	
Bis(2-Chloroethyl) ether	541	13.3	26.7	ug/kg wet	4	533	---	101	31-120%	---	---	
2,2'-Oxybis(1-Chloropropane)	615	13.3	26.7	ug/kg wet	4	533	---	115	39-120%	---	---	
Hexachlorobenzene	470	5.32	10.7	ug/kg wet	4	533	---	88	45-122%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc.	Project: Gasco -- Filtercake	
2749 Lockport Road	Project Number: 111323	Report ID:
Niagara Falls, NY 14305	Project Manager: Chip Byrd	A3E1675 - 06 19 23 0903

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0172 - EPA 3546						Solid						
LCS (23F0172-BS1)						Prepared: 06/06/23 11:23 Analyzed: 06/06/23 17:10						Q-18
Hexachlorobutadiene	448	13.3	26.7	ug/kg wet	4	533	---	84	32-123%	---	---	
Hexachlorocyclopentadiene	577	26.7	53.2	ug/kg wet	4	533	---	108	10-140%	---	---	
Hexachloroethane	506	13.3	26.7	ug/kg wet	4	533	---	95	28-120%	---	---	
2-Chloronaphthalene	535	5.32	10.7	ug/kg wet	4	533	---	100	41-120%	---	---	
1,2,4-Trichlorobenzene	475	13.3	26.7	ug/kg wet	4	533	---	89	34-120%	---	---	
4-Bromophenyl phenyl ether	502	13.3	26.7	ug/kg wet	4	533	---	94	46-124%	---	---	
4-Chlorophenyl phenyl ether	519	13.3	26.7	ug/kg wet	4	533	---	97	45-121%	---	---	
Aniline	511	26.7	53.2	ug/kg wet	4	533	---	96	10-120%	---	---	
4-Chloroaniline	392	13.3	26.7	ug/kg wet	4	533	---	73	17-120%	---	---	
2-Nitroaniline	560	107	213	ug/kg wet	4	533	---	105	44-127%	---	---	
3-Nitroaniline	526	107	213	ug/kg wet	4	533	---	99	33-120%	---	---	
4-Nitroaniline	555	107	213	ug/kg wet	4	533	---	104	51-125%	---	---	
Nitrobenzene	608	53.2	107	ug/kg wet	4	533	---	114	34-122%	---	---	
2,4-Dinitrotoluene	540	53.2	107	ug/kg wet	4	533	---	101	48-126%	---	---	
2,6-Dinitrotoluene	519	53.2	107	ug/kg wet	4	533	---	97	46-124%	---	---	
Benzoic acid	557	480	480	ug/kg wet	4	1070	---	52	10-140%	---	---	Q-31
Benzyl alcohol	587	26.7	53.2	ug/kg wet	4	533	---	110	29-122%	---	---	
Isophorone	523	13.3	26.7	ug/kg wet	4	533	---	98	30-122%	---	---	
Azobenzene (1,2-DPH)	587	13.3	26.7	ug/kg wet	4	533	---	110	39-125%	---	---	
Bis(2-Ethylhexyl) adipate	513	133	267	ug/kg wet	4	533	---	96	61-121%	---	---	
3,3'-Dichlorobenzidine	1930	107	213	ug/kg wet	4	1070	---	181	22-121%	---	---	Q-52, Q-29
1,2-Dinitrobenzene	536	133	267	ug/kg wet	4	533	---	100	44-120%	---	---	
1,3-Dinitrobenzene	592	133	267	ug/kg wet	4	533	---	111	43-127%	---	---	Q-41
1,4-Dinitrobenzene	609	133	267	ug/kg wet	4	533	---	114	37-132%	---	---	Q-41
Pyridine	476	26.7	53.2	ug/kg wet	4	533	---	89	10-120%	---	---	
1,2-Dichlorobenzene	487	13.3	26.7	ug/kg wet	4	533	---	91	33-120%	---	---	
1,3-Dichlorobenzene	477	13.3	26.7	ug/kg wet	4	533	---	89	30-120%	---	---	
1,4-Dichlorobenzene	480	13.3	26.7	ug/kg wet	4	533	---	90	31-120%	---	---	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 114 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 4x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>98 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>117 %</i>		<i>33-122 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>99 %</i>		<i>54-127 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>103 %</i>		<i>35-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>96 %</i>		<i>39-132 %</i>		<i>"</i>						

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0172 - EPA 3546							Solid					
Duplicate (23F0172-DUP2)			Prepared: 06/06/23 11:23 Analyzed: 06/08/23 01:39									
QC Source Sample: FC-052323-2115 (A3E1675-01)												
EPA 8270E												
Acenaphthene	95600	2710	5430	ug/kg dry	200	---	82600	---	---	15	30%	
Acenaphthylene	ND	8140	8140	ug/kg dry	200	---	ND	---	---	---	30%	R-02
Anthracene	82000	2710	5430	ug/kg dry	200	---	67900	---	---	19	30%	
Benz(a)anthracene	45800	2710	5430	ug/kg dry	200	---	36400	---	---	23	30%	
Benzo(a)pyrene	49000	4070	8140	ug/kg dry	200	---	39000	---	---	23	30%	
Benzo(b)fluoranthene	37400	4070	8140	ug/kg dry	200	---	30500	---	---	20	30%	
Benzo(k)fluoranthene	14200	4070	8140	ug/kg dry	200	---	12100	---	---	16	30%	M-05
Benzo(g,h,i)perylene	31600	2710	5430	ug/kg dry	200	---	25400	---	---	22	30%	
Chrysene	63500	2710	5430	ug/kg dry	200	---	52600	---	---	19	30%	
Dibenz(a,h)anthracene	3070	2710	5430	ug/kg dry	200	---	ND	---	---		30%	J, Q-17
Fluoranthene	238000	2710	5430	ug/kg dry	200	---	198000	---	---	18	30%	
Fluorene	65900	2710	5430	ug/kg dry	200	---	57400	---	---	14	30%	
Indeno(1,2,3-cd)pyrene	25600	2710	5430	ug/kg dry	200	---	21500	---	---	17	30%	
1-Methylnaphthalene	33900	5430	10800	ug/kg dry	200	---	30500	---	---	10	30%	
2-Methylnaphthalene	25000	5430	10800	ug/kg dry	200	---	22500	---	---	11	30%	
Naphthalene	ND	5430	10800	ug/kg dry	200	---	ND	---	---	---	30%	
Phenanthrene	467000	2710	5430	ug/kg dry	200	---	399000	---	---	16	30%	
Pyrene	283000	2710	5430	ug/kg dry	200	---	232000	---	---	20	30%	
Carbazole	ND	4070	8140	ug/kg dry	200	---	ND	---	---	---	30%	
Dibenzofuran	7940	2710	5430	ug/kg dry	200	---	7130	---	---	11	30%	
2-Chlorophenol	ND	13600	27100	ug/kg dry	200	---	ND	---	---	---	30%	
4-Chloro-3-methylphenol	ND	27100	54300	ug/kg dry	200	---	ND	---	---	---	30%	
2,4-Dichlorophenol	ND	13600	27100	ug/kg dry	200	---	ND	---	---	---	30%	
2,4-Dimethylphenol	ND	13600	27100	ug/kg dry	200	---	ND	---	---	---	30%	
2,4-Dinitrophenol	ND	67800	136000	ug/kg dry	200	---	ND	---	---	---	30%	
4,6-Dinitro-2-methylphenol	ND	67800	136000	ug/kg dry	200	---	ND	---	---	---	30%	
2-Methylphenol	ND	6780	13600	ug/kg dry	200	---	ND	---	---	---	30%	
3+4-Methylphenol(s)	ND	6780	13600	ug/kg dry	200	---	ND	---	---	---	30%	
2-Nitrophenol	ND	27100	54300	ug/kg dry	200	---	ND	---	---	---	30%	
4-Nitrophenol	ND	54300	54300	ug/kg dry	200	---	ND	---	---	---	30%	
Pentachlorophenol (PCP)	ND	27100	54300	ug/kg dry	200	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0172 - EPA 3546						Solid						
Duplicate (23F0172-DUP2)			Prepared: 06/06/23 11:23 Analyzed: 06/08/23 01:39									
QC Source Sample: FC-052323-2115 (A3E1675-01)												
Phenol	ND	5430	10800	ug/kg dry	200	---	ND	---	---	---	30%	
2,3,4,6-Tetrachlorophenol	ND	13600	27100	ug/kg dry	200	---	ND	---	---	---	30%	
2,3,5,6-Tetrachlorophenol	ND	13600	27100	ug/kg dry	200	---	ND	---	---	---	30%	
2,4,5-Trichlorophenol	ND	13600	27100	ug/kg dry	200	---	ND	---	---	---	30%	
2,4,6-Trichlorophenol	ND	13600	27100	ug/kg dry	200	---	ND	---	---	---	30%	
Bis(2-ethylhexyl)phthalate	ND	40700	81400	ug/kg dry	200	---	ND	---	---	---	30%	
Butyl benzyl phthalate	ND	27100	54300	ug/kg dry	200	---	ND	---	---	---	30%	
Diethylphthalate	ND	27100	54300	ug/kg dry	200	---	ND	---	---	---	30%	
Dimethylphthalate	ND	27100	54300	ug/kg dry	200	---	ND	---	---	---	30%	
Di-n-butylphthalate	ND	27100	54300	ug/kg dry	200	---	ND	---	---	---	30%	
Di-n-octyl phthalate	ND	27100	54300	ug/kg dry	200	---	ND	---	---	---	30%	
N-Nitrosodimethylamine	ND	6780	13600	ug/kg dry	200	---	ND	---	---	---	30%	
N-Nitroso-di-n-propylamine	ND	6780	13600	ug/kg dry	200	---	ND	---	---	---	30%	
N-Nitrosodiphenylamine	ND	13600	13600	ug/kg dry	200	---	ND	---	---	---	30%	
Bis(2-Chloroethoxy) methane	ND	6780	13600	ug/kg dry	200	---	ND	---	---	---	30%	
Bis(2-Chloroethyl) ether	ND	6780	13600	ug/kg dry	200	---	ND	---	---	---	30%	
2,2'-Oxybis(1-Chloropropane)	ND	6780	13600	ug/kg dry	200	---	ND	---	---	---	30%	
Hexachlorobenzene	ND	2710	5430	ug/kg dry	200	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	6780	13600	ug/kg dry	200	---	ND	---	---	---	30%	
Hexachlorocyclopentadiene	ND	13600	27100	ug/kg dry	200	---	ND	---	---	---	30%	
Hexachloroethane	ND	6780	13600	ug/kg dry	200	---	ND	---	---	---	30%	
2-Chloronaphthalene	ND	2710	5430	ug/kg dry	200	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	6780	13600	ug/kg dry	200	---	ND	---	---	---	30%	
4-Bromophenyl phenyl ether	ND	6780	13600	ug/kg dry	200	---	ND	---	---	---	30%	
4-Chlorophenyl phenyl ether	ND	6780	13600	ug/kg dry	200	---	ND	---	---	---	30%	
Aniline	ND	13600	27100	ug/kg dry	200	---	ND	---	---	---	30%	
4-Chloroaniline	ND	6780	13600	ug/kg dry	200	---	ND	---	---	---	30%	
2-Nitroaniline	ND	54300	108000	ug/kg dry	200	---	ND	---	---	---	30%	
3-Nitroaniline	ND	54300	108000	ug/kg dry	200	---	ND	---	---	---	30%	
4-Nitroaniline	ND	54300	108000	ug/kg dry	200	---	ND	---	---	---	30%	
Nitrobenzene	ND	27100	54300	ug/kg dry	200	---	ND	---	---	---	30%	
2,4-Dinitrotoluene	ND	27100	54300	ug/kg dry	200	---	ND	---	---	---	30%	
2,6-Dinitrotoluene	ND	27100	54300	ug/kg dry	200	---	ND	---	---	---	30%	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0172 - EPA 3546						Solid						
Duplicate (23F0172-DUP2)			Prepared: 06/06/23 11:23 Analyzed: 06/08/23 01:39									
QC Source Sample: FC-052323-2115 (A3E1675-01)												
Benzoic acid	ND	340000	678000	ug/kg dry	200	---	ND	---	---	---	30%	
Benzyl alcohol	ND	13600	27100	ug/kg dry	200	---	ND	---	---	---	30%	
Isophorone	ND	6780	13600	ug/kg dry	200	---	ND	---	---	---	30%	
Azobenzene (1,2-DPH)	ND	6780	13600	ug/kg dry	200	---	ND	---	---	---	30%	
Bis(2-Ethylhexyl) adipate	ND	67800	136000	ug/kg dry	200	---	ND	---	---	---	30%	
3,3'-Dichlorobenzidine	ND	54300	108000	ug/kg dry	200	---	ND	---	---	---	30%	Q-52
1,2-Dinitrobenzene	ND	67800	136000	ug/kg dry	200	---	ND	---	---	---	30%	
1,3-Dinitrobenzene	ND	67800	136000	ug/kg dry	200	---	ND	---	---	---	30%	
1,4-Dinitrobenzene	ND	67800	136000	ug/kg dry	200	---	ND	---	---	---	30%	
Pyridine	ND	13600	27100	ug/kg dry	200	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	6780	13600	ug/kg dry	200	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	6780	13600	ug/kg dry	200	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	6780	13600	ug/kg dry	200	---	ND	---	---	---	30%	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 200x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>104 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>95 %</i>		<i>33-122 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>116 %</i>		<i>54-127 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>92 %</i>		<i>35-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>291 %</i>		<i>39-132 %</i>		<i>"</i>						

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E1101 - EPA 3051A						Solid						
Blank (23E1101-BLK1)			Prepared: 05/25/23 13:41 Analyzed: 05/25/23 18:40									
<u>EPA 6020B</u>												
Arsenic	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Barium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	100	200	ug/kg wet	10	---	---	---	---	---	---	
Chromium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Lead	ND	100	200	ug/kg wet	10	---	---	---	---	---	---	
Mercury	ND	40.0	80.0	ug/kg wet	10	---	---	---	---	---	---	
Selenium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Silver	ND	100	200	ug/kg wet	10	---	---	---	---	---	---	
<hr/>												
LCS (23E1101-BS1)			Prepared: 05/25/23 13:41 Analyzed: 05/25/23 18:45									
<u>EPA 6020B</u>												
Arsenic	48800	500	1000	ug/kg wet	10	50000	---	98	80-120%	---	---	
Barium	51500	500	1000	ug/kg wet	10	50000	---	103	80-120%	---	---	
Cadmium	49300	100	200	ug/kg wet	10	50000	---	99	80-120%	---	---	
Chromium	50500	500	1000	ug/kg wet	10	50000	---	101	80-120%	---	---	
Lead	52100	100	200	ug/kg wet	10	50000	---	104	80-120%	---	---	
Mercury	967	40.0	80.0	ug/kg wet	10	1000	---	97	80-120%	---	---	
Selenium	25200	500	1000	ug/kg wet	10	25000	---	101	80-120%	---	---	
Silver	24200	100	200	ug/kg wet	10	25000	---	97	80-120%	---	---	
<hr/>												
Duplicate (23E1101-DUP1)			Prepared: 05/25/23 13:41 Analyzed: 05/25/23 18:55									
<u>QC Source Sample: FC-052323-2115 (A3E1675-01)</u>												
<u>EPA 6020B</u>												
Arsenic	8810	1980	3970	ug/kg dry	10	---	8360	---	---	5	20%	
Barium	213000	1980	3970	ug/kg dry	10	---	211000	---	---	0.7	20%	
Cadmium	ND	397	793	ug/kg dry	10	---	ND	---	---	---	20%	
Chromium	ND	1980	3970	ug/kg dry	10	---	ND	---	---	---	20%	
Lead	ND	397	793	ug/kg dry	10	---	ND	---	---	---	20%	
Mercury	ND	159	317	ug/kg dry	10	---	ND	---	---	---	20%	
Selenium	ND	1980	3970	ug/kg dry	10	---	ND	---	---	---	20%	
Silver	ND	397	793	ug/kg dry	10	---	ND	---	---	---	20%	
<hr/>												
Matrix Spike (23E1101-MS1)			Prepared: 05/25/23 13:41 Analyzed: 05/25/23 18:59									

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E1101 - EPA 3051A						Solid						
Matrix Spike (23E1101-MS1)						Prepared: 05/25/23 13:41 Analyzed: 05/25/23 18:59						
QC Source Sample: FC-052323-2115 (A3E1675-01)												
EPA 6020B												
Arsenic	194000	1930	3860	ug/kg dry	10	193000	8360	96	75-125%	---	---	
Barium	396000	1930	3860	ug/kg dry	10	193000	211000	95	75-125%	---	---	
Cadmium	186000	386	772	ug/kg dry	10	193000	ND	97	75-125%	---	---	
Chromium	186000	1930	3860	ug/kg dry	10	193000	ND	96	75-125%	---	---	
Lead	192000	386	772	ug/kg dry	10	193000	ND	99	75-125%	---	---	
Mercury	3580	154	309	ug/kg dry	10	3860	ND	93	75-125%	---	---	
Selenium	94800	1930	3860	ug/kg dry	10	96500	ND	98	75-125%	---	---	
Silver	89500	386	772	ug/kg dry	10	96500	ND	93	75-125%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0042 - EPA 1311/3015A						Solid						
Blank (23F0042-BLK1)			Prepared: 06/01/23 12:28 Analyzed: 06/02/23 23:19									
<u>1311/6020B</u>												
Arsenic	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLP
Barium	ND	2500	5000	ug/L	10	---	---	---	---	---	---	TCLP
Cadmium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLP
Chromium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLP
Lead	ND	25.0	50.0	ug/L	10	---	---	---	---	---	---	TCLP
Mercury	ND	3.75	7.00	ug/L	10	---	---	---	---	---	---	TCLP
Selenium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLP
Silver	ND	50.0	100	ug/L	10	---	---	---	---	---	---	Q-30, TCLP
<hr/>												
LCS (23F0042-BS1)			Prepared: 06/01/23 12:28 Analyzed: 06/02/23 23:24									
<u>1311/6020B</u>												
Arsenic	5000	50.0	100	ug/L	10	5000	---	100	80-120%	---	---	TCLP
Barium	10200	2500	5000	ug/L	10	10000	---	102	80-120%	---	---	TCLP
Cadmium	1010	50.0	100	ug/L	10	1000	---	101	80-120%	---	---	TCLP
Chromium	4990	50.0	100	ug/L	10	5000	---	100	80-120%	---	---	TCLP
Lead	5600	25.0	50.0	ug/L	10	5000	---	112	80-120%	---	---	TCLP
Mercury	104	3.75	7.00	ug/L	10	100	---	104	80-120%	---	---	TCLP
Selenium	1010	50.0	100	ug/L	10	1000	---	101	80-120%	---	---	TCLP
Silver	687	50.0	100	ug/L	10	1000	---	69	80-120%	---	---	Q-30, TCLP
<hr/>												
Duplicate (23F0042-DUP1)			Prepared: 06/01/23 12:28 Analyzed: 06/02/23 23:34									
<u>QC Source Sample: FC-052323-2115 (A3E1675-01)</u>												
<u>1311/6020B</u>												
Arsenic	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	
Barium	ND	2500	5000	ug/L	10	---	ND	---	---	---	20%	
Cadmium	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	
Chromium	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	
Lead	ND	25.0	50.0	ug/L	10	---	ND	---	---	---	20%	
Mercury	ND	3.75	7.00	ug/L	10	---	ND	---	---	---	20%	
Selenium	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	
Silver	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	Q-30
<hr/>												
Matrix Spike (23F0042-MS1)			Prepared: 06/01/23 12:28 Analyzed: 06/02/23 23:39									

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
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QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0042 - EPA 1311/3015A						Solid						
Matrix Spike (23F0042-MS1)						Prepared: 06/01/23 12:28 Analyzed: 06/02/23 23:39						
QC Source Sample: FC-052323-2115 (A3E1675-01)												
1311/6020B												
Arsenic	5020	50.0	100	ug/L	10	5000	ND	100	50-150%	---	---	
Barium	10600	2500	5000	ug/L	10	10000	ND	106	50-150%	---	---	
Cadmium	1030	50.0	100	ug/L	10	1000	ND	103	50-150%	---	---	
Chromium	5030	50.0	100	ug/L	10	5000	ND	101	50-150%	---	---	
Lead	5510	25.0	50.0	ug/L	10	5000	ND	110	50-150%	---	---	
Mercury	107	3.75	7.00	ug/L	10	100	ND	107	50-150%	---	---	
Selenium	1050	50.0	100	ug/L	10	1000	ND	105	50-150%	---	---	
Silver	837	50.0	100	ug/L	10	1000	ND	84	50-150%	---	---	Q-30

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QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0141 - EPA 1311/3015A						Solid						
Blank (23F0141-BLK1)						Prepared: 06/05/23 16:49 Analyzed: 06/05/23 21:18						
<u>1311/6020B</u>												
Silver	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLP
LCS (23F0141-BS1)						Prepared: 06/05/23 16:49 Analyzed: 06/05/23 21:23						
<u>1311/6020B</u>												
Silver	885	50.0	100	ug/L	10	1000	---	88	80-120%	---	---	TCLP
Duplicate (23F0141-DUP1)						Prepared: 06/05/23 16:49 Analyzed: 06/05/23 21:33						
<u>QC Source Sample: FC-052323-2115 (A3E1675-01RE1)</u>												
<u>1311/6020B</u>												
Silver	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	
Matrix Spike (23F0141-MS1)						Prepared: 06/05/23 16:49 Analyzed: 06/05/23 21:38						
<u>QC Source Sample: FC-052323-2115 (A3E1675-01RE1)</u>												
<u>1311/6020B</u>												
Silver	940	50.0	100	ug/L	10	1000	ND	94	50-150%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0064 - ASTM D7511-12mod (S)						Soil						
Blank (23F0064-BLK1)						Prepared: 06/02/23 08:15 Analyzed: 06/02/23 15:11						
<u>D7511-12</u>												
Total Cyanide	ND	50.0	100	ug/kg wet	1	---	---	---	---	---	---	
LCS (23F0064-BS1)						Prepared: 06/02/23 08:15 Analyzed: 06/02/23 15:13						
<u>D7511-12</u>												
Total Cyanide	355	50.0	100	ug/kg wet	1	400	---	89	84-116%	---	---	
Matrix Spike (23F0064-MS1)						Prepared: 06/02/23 08:15 Analyzed: 06/02/23 15:19						
<u>QC Source Sample: FC-052323-2115 (A3E1675-01)</u>												
<u>D7511-12</u>												
Total Cyanide	6560	947	1890	ug/kg dry	5	1520	5130	94	64-136%	---	---	
Matrix Spike Dup (23F0064-MSD1)						Prepared: 06/02/23 08:15 Analyzed: 06/02/23 15:21						
<u>QC Source Sample: FC-052323-2115 (A3E1675-01)</u>												
<u>D7511-12</u>												
Total Cyanide	6630	946	1890	ug/kg dry	5	1510	5130	99	64-136%	1	47%	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E1075 - Total Solids (Dry Weight) - 2022							Soil					
Duplicate (23E1075-DUP1)			Prepared: 05/25/23 10:25 Analyzed: 05/26/23 06:10									
<u>QC Source Sample: Non-SDG (A3E1672-01)</u>												
% Solids	90.1	1.00	1.00	%	1	---	89.2	---	---	1	10%	
Duplicate (23E1075-DUP2)			Prepared: 05/25/23 10:25 Analyzed: 05/26/23 06:10									
<u>QC Source Sample: Non-SDG (A3E1672-02)</u>												
% Solids	93.3	1.00	1.00	%	1	---	93.0	---	---	0.3	10%	
Duplicate (23E1075-DUP3)			Prepared: 05/25/23 10:25 Analyzed: 05/26/23 06:10									
<u>QC Source Sample: FC-052323-2115 (A3E1675-01)</u>												
<u>EPA 8000D</u>												
% Solids	26.4	1.00	1.00	%	1	---	26.3	---	---	0.2	10%	
Duplicate (23E1075-DUP4)			Prepared: 05/25/23 10:25 Analyzed: 05/26/23 06:10									
<u>QC Source Sample: Non-SDG (A3E1680-01)</u>												
% Solids	96.9	1.00	1.00	%	1	---	97.1	---	---	0.2	10%	
Duplicate (23E1075-DUP5)			Prepared: 05/25/23 17:34 Analyzed: 05/26/23 06:10									
<u>QC Source Sample: Non-SDG (A3E1715-01)</u>												
% Solids	64.4	1.00	1.00	%	1	---	63.2	---	---	2	10%	
Duplicate (23E1075-DUP6)			Prepared: 05/25/23 17:34 Analyzed: 05/26/23 06:10									
<u>QC Source Sample: Non-SDG (A3E1744-02)</u>												
% Solids	90.7	1.00	1.00	%	1	---	92.6	---	---	2	10%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
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SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23F0153</u>							
A3E1675-01	Solid	NWTPH-Dx	05/23/23 22:00	06/06/23 08:08	10.22g/5mL	10g/5mL	0.98

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23E1239</u>							
A3E1675-01RE1	Solid	NWTPH-Gx (MS)	05/23/23 22:00	05/24/23 15:10	5.16g/5mL	5g/5mL	0.97

Volatile Organic Compounds by EPA 8260D

Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23E1239</u>							
A3E1675-01RE1	Solid	5035A/8260D	05/23/23 22:00	05/24/23 15:10	5.16g/5mL	5g/5mL	0.97

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Prep: EPA 1311/5030B TCLP Volatiles					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23F0093</u>							
A3E1675-01	Solid	1311/8260D	05/23/23 22:00	06/02/23 14:47	5mL/5mL	5mL/5mL	1.00

Semivolatile Organic Compounds by EPA 8270E

Prep: EPA 3546					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23F0172</u>							
A3E1675-01	Solid	EPA 8270E	05/23/23 22:00	06/06/23 11:23	5.42g/2mL	15g/2mL	2.77

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3051A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23E1101</u>							
A3E1675-01	Solid	EPA 6020B	05/23/23 22:00	05/25/23 13:41	0.455g/50mL	0.5g/50mL	1.10

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
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SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3051A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor

TCLP Metals by EPA 6020B (ICPMS)

Prep: EPA 1311/3015A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23F0042</u>							
A3E1675-01	Solid	1311/6020B	05/23/23 22:00	06/01/23 12:28	10mL/50mL	10mL/50mL	1.00
<u>Batch: 23F0141</u>							
A3E1675-01RE1	Solid	1311/6020B	05/23/23 22:00	06/05/23 16:49	10mL/50mL	10mL/50mL	1.00

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Prep: ASTM D7511-12mod (S)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23F0064</u>							
A3E1675-01	Solid	D7511-12	05/23/23 22:00	06/02/23 08:15	2.507g/50mL	2.5g/50mL	1.00

Percent Dry Weight

Prep: Total Solids (Dry Weight) - 2022					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23E1075</u>							
A3E1675-01	Solid	EPA 8000D	05/23/23 22:00	05/25/23 10:25			NA

TCLP Extraction by EPA 1311

Prep: EPA 1311 (TCLP)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23E1235</u>							
A3E1675-01	Solid	EPA 1311	05/23/23 22:00	05/31/23 16:00	100g/2000.1g	100g/2000g	NA

Prep: EPA 1311 TCLP/ZHE

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23F0047</u>							
A3E1675-01	Solid	EPA 1311 ZHE	05/23/23 22:00	06/01/23 14:41	25g/504.1g	25g/500g	NA

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ANALYTICAL REPORT

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6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc.
2749 Lockport Road
Niagara Falls, NY 14305

Project: **Gasco -- Filtercake**
Project Number: **111323**
Project Manager: **Chip Byrd**

Report ID:
A3E1675 - 06 19 23 0903

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- E** Estimated Value. The result is above the calibration range of the instrument.
- F-13** The chromatographic pattern does not resemble the fuel standard used for quantitation
- H-01** Analyzed outside the recommended holding time.
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- M-02** Due to matrix interference, this analyte cannot be accurately quantified. The reported result is estimated.
- M-05** Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
- Q-17** RPD between original and duplicate sample is outside of established control limits.
- Q-18** Matrix Spike results for this extraction batch are not reported due to the high dilution necessary for analysis of the source sample.
- Q-29** Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
- Q-30** Recovery for Lab Control Spike (LCS) is below the lower control limit. Data may be biased low.
- Q-31** Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
- Q-37** Sample is non-homogenous. Sample results are less than the Reporting Level (MDL and/or MRL) and Duplicate results exceed this level. See QC Section of the report for Duplicate results.
- Q-41** Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- Q-42** Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
- Q-52** Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
- Q-54** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +2%. The results are reported as Estimated Values.
- Q-54a** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +3%. The results are reported as Estimated Values.
- Q-54b** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -11%. The results are reported as Estimated Values.
- Q-54c** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -13%. The results are reported as Estimated Values.
- Q-54d** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -14%. The results are reported as Estimated Values.
- Q-54e** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -17%. The results are reported as Estimated Values.

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc.

2749 Lockport Road
Niagara Falls, NY 14305

Project: Gasco -- Filtercake

Project Number: 111323

Project Manager: Chip Byrd

Report ID:

A3E1675 - 06 19 23 0903

- Q-54f Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -23%. The results are reported as Estimated Values.
- Q-54g Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -26%. The results are reported as Estimated Values.
- Q-54h Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -28%. The results are reported as Estimated Values.
- Q-54i Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -3%. The results are reported as Estimated Values.
- Q-54j Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -33%. The results are reported as Estimated Values.
- Q-54k Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -34%. The results are reported as Estimated Values.
- Q-54l Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -6%. The results are reported as Estimated Values.
- Q-54m Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -9%. The results are reported as Estimated Values.
- Q-55 Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
- Q-56 Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260
- R-02 The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- S-01 Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
- S-05 Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- TCLP This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23E1235.
- TCLPa This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23F0047.
- V-15 Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.
- V-16 Sample aliquot was subsampled from the sample container in the laboratory. The subsampled aliquot was not preserved within 48 hours of sampling.

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ANALYTICAL REPORT

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

- DET Analyte DETECTED at or above the detection or reporting limit.
- ND Analyte NOT DETECTED at or above the detection or reporting limit.
- NR Result Not Reported
- RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

- " dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
- " wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
- " " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

Results for Volatiles analyses on soils and sediments that are reported on a "dry weight" basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an "As Received" basis do not have the WMS correction applied, as dry weight was not performed.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

- " --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- " *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

- Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
- For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
- For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
- For further details, please request a copy of this document.
- Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.
- 'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Table with 3 columns: Client (Sevenson Environmental Services, Inc.), Project (Gasco -- Filtercake), and Report ID (A3E1675 - 06 19 23 0903).

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -
EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Table header with columns: Matrix, Analysis, TNI_ID, Analyte, TNI_ID, Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Handwritten signature of Darwin Thomas

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ANALYTICAL REPORT

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
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APEX LABS

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: Sevenson Environmental Services, Inc.

Address: 2749 Lockport Road, Niagara Falls, NY 14305

Sampled by:

CHAIN OF CUSTODY

Lab # A3E1675 of _____

COC _____

Project Mgr: Chip Byrd Project Name: Gasco -- Filtercake Project # 111323
 Phone: (716) 653-2754 Fax: _____ E-mail: wbyrd@sevenson.com

ANALYSIS REQUEST

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	8260 VOCs	1311/8260 TCPL VOCs	8270D LL Fill List	Dry Weight	Metals, RCRA 8	Metals, TPCL	Total Cyanide	NWTPH - Dx	NWTPH - Gx
FC-052323-2115		5-23-23	2:00	S	1	X	X	X	X	X	X	X	X	X

SPECIAL INSTRUCTIONS:

Normal Turn Around Time (TAT) = 6-10 Business Days

TAT Requested (circle) 1 DAY 2 DAY 3 DAY 4 DAY

5 DAY **STD** Other: _____

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature: <i>[Signature]</i> Date: 5-24-23 Printed Name: Dave Snyder Company: APEX LABS	RECEIVED BY: Signature: <i>[Signature]</i> Date: 5/23/23 Printed Name: Eric Byrd Company: APEX LABS
-----------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------

Apex Laboratories

[Signature]

Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3E1675 - 06 19 23 0903
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	----------------------------------------------

APEX LABS COOLER RECEIPT FORM

Client: SEVENSON Environmental Services, Inc. - Element WO#: A3E1675

Project/Project #: Gasco - Filtercake 111323

Delivery Info:
Date/time received: 5/24/23 @ 957 By: EST

Delivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen Other

Cooler Inspection Date/time inspected: 5/24/23 @ 1107 By: EST

Chain of Custody included? Yes No

Signed/dated by client? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>3.0</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>Y</u>						
Ice type: (Gel/Real/Other)	<u>gel</u>						
Condition (In/Out):	<u>IN</u>						

Cooler out of temp? (Y/N) Possible reason why: ①

Green dots applied to out of temperature samples? Yes No

Out of temperature samples form initiated? Yes No

Sample Inspection: Date/time inspected: 5/24/23 @ 15:02 By: JAM

All samples intact? Yes No Comments: ID analysis

Bottle labels/COCs agree? Yes No Comments: Container ready 2/15

COC/container discrepancies form initiated? Yes No

Containers/volumes received appropriate for analysis? Yes No Comments: _____

Do VOA vials have visible headspace? Yes No NA

Comments: _____

Water samples: pH checked: Yes No NA pH appropriate? Yes No NA

Comments: _____

Additional information:

Labeled by: JAM Witness: JG Cooler Inspected by: JAM

Form Y-003 R-00

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Tuesday, July 25, 2023

Chip Byrd
Sevenson Environmental Services, Inc.
2749 Lockport Road
Niagara Falls, NY 14305

RE: A3F1367 - Gasco -- Filtercake - 111323

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3F1367, which was received by the laboratory on 6/21/2023 at 10:05:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler 1.9 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FC-062023-2131	A3F1367-01	Solid	06/20/23 03:00	06/21/23 10:05

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ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
FC-062023-2131 (A3F1367-01)				Matrix: Solid		Batch: 23F1026		CONT	
Diesel	5690000	201000	402000	ug/kg dry	5	06/29/23 06:03	NWTPH-Dx	F-13	
Oil	ND	402000	804000	ug/kg dry	5	06/29/23 06:03	NWTPH-Dx		
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 89 %</i>		<i>Limits: 50-150 %</i>		<i>5</i>	<i>06/29/23 06:03</i>	<i>NWTPH-Dx</i>	<i>S-05</i>

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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-062023-2131 (A3F1367-01RE1)				Matrix: Solid		Batch: 23F0856		V-15
Gasoline Range Organics	45100	17300	34500	ug/kg dry	50	06/23/23 16:34	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 112 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	06/23/23 16:34	NWTPH-Gx (MS)	
<i>1,4-Difluorobenzene (Sur)</i>			<i>112 %</i>	<i>50-150 %</i>	<i>1</i>	06/23/23 16:34	NWTPH-Gx (MS)	

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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-062023-2131 (A3F1367-01RE1)				Matrix: Solid		Batch: 23F0856		V-15
Acetone	ND	3450	6900	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
Acrylonitrile	ND	345	690	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
Benzene	ND	34.5	69.0	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
Bromobenzene	ND	86.3	173	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
Bromochloromethane	ND	173	345	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
Bromodichloromethane	ND	173	345	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
Bromoform	ND	345	690	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
Bromomethane	ND	3450	3450	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
2-Butanone (MEK)	ND	1730	3450	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
n-Butylbenzene	ND	173	345	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
sec-Butylbenzene	ND	173	345	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
tert-Butylbenzene	ND	173	345	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
Carbon disulfide	ND	1730	3450	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
Carbon tetrachloride	ND	173	345	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
Chlorobenzene	ND	86.3	173	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
Chloroethane	ND	1730	3450	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
Chloroform	ND	173	345	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
Chloromethane	ND	863	1730	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
2-Chlorotoluene	ND	173	345	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
4-Chlorotoluene	ND	173	345	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
Dibromochloromethane	ND	345	690	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	863	1730	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	173	345	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
Dibromomethane	ND	173	345	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
1,2-Dichlorobenzene	ND	86.3	173	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
1,3-Dichlorobenzene	ND	86.3	173	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
1,4-Dichlorobenzene	ND	86.3	173	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
Dichlorodifluoromethane	ND	345	690	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
1,1-Dichloroethane	ND	86.3	173	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	86.3	173	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
1,1-Dichloroethene	ND	86.3	173	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
cis-1,2-Dichloroethene	ND	86.3	173	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
trans-1,2-Dichloroethene	ND	86.3	173	ug/kg dry	50	06/23/23 16:34	5035A/8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-062023-2131 (A3F1367-01RE1)				Matrix: Solid		Batch: 23F0856		V-15
1,2-Dichloropropane	ND	86.3	173	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
1,3-Dichloropropane	ND	173	345	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
2,2-Dichloropropane	ND	173	345	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
1,1-Dichloropropene	ND	173	345	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
cis-1,3-Dichloropropene	ND	173	345	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
trans-1,3-Dichloropropene	ND	173	345	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
Ethylbenzene	ND	86.3	173	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
Hexachlorobutadiene	ND	345	690	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
2-Hexanone	ND	3450	3450	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
Isopropylbenzene	ND	173	345	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
4-Isopropyltoluene	ND	173	345	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
Methylene chloride	ND	1730	3450	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
4-Methyl-2-pentanone (MIBK)	ND	1730	3450	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	173	345	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
Naphthalene	ND	345	690	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
n-Propylbenzene	ND	86.3	173	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
Styrene	ND	173	345	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	86.3	173	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
1,1,1,2,2-Tetrachloroethane	ND	173	345	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
Tetrachloroethene (PCE)	ND	86.3	173	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
Toluene	ND	173	345	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
1,2,3-Trichlorobenzene	ND	86.3	1730	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
1,2,4-Trichlorobenzene	ND	86.3	1730	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
1,1,1-Trichloroethane	ND	86.3	173	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
1,1,2-Trichloroethane	ND	86.3	173	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
Trichloroethene (TCE)	ND	86.3	173	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
Trichlorofluoromethane	ND	345	690	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
1,2,3-Trichloropropane	ND	173	345	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
1,2,4-Trimethylbenzene	ND	173	345	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
1,3,5-Trimethylbenzene	ND	173	345	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
Vinyl chloride	ND	86.3	173	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
m,p-Xylene	ND	173	345	ug/kg dry	50	06/23/23 16:34	5035A/8260D	
o-Xylene	ND	86.3	173	ug/kg dry	50	06/23/23 16:34	5035A/8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-062023-2131 (A3F1367-01RE1)				Matrix: Solid		Batch: 23F0856		V-15
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 104 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>06/23/23 16:34</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>			<i>99 %</i>	<i>80-120 %</i>	<i>1</i>	<i>06/23/23 16:34</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>92 %</i>	<i>79-120 %</i>	<i>1</i>	<i>06/23/23 16:34</i>	<i>5035A/8260D</i>	

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ANALYTICAL SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-062023-2131 (A3F1367-01)				Matrix: Solid		Batch: 23F1083		CONT
Benzene	ND	6.25	12.5	ug/L	50	06/29/23 12:12	1311/8260D	
2-Butanone (MEK)	ND	250	500	ug/L	50	06/29/23 12:12	1311/8260D	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	06/29/23 12:12	1311/8260D	
Chlorobenzene	ND	12.5	25.0	ug/L	50	06/29/23 12:12	1311/8260D	
Chloroform	ND	25.0	50.0	ug/L	50	06/29/23 12:12	1311/8260D	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	06/29/23 12:12	1311/8260D	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	06/29/23 12:12	1311/8260D	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	06/29/23 12:12	1311/8260D	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	06/29/23 12:12	1311/8260D	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	06/29/23 12:12	1311/8260D	
Vinyl chloride	ND	12.5	25.0	ug/L	50	06/29/23 12:12	1311/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>06/29/23 12:12</i>	<i>1311/8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>1</i>	<i>06/29/23 12:12</i>	<i>1311/8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>1</i>	<i>06/29/23 12:12</i>	<i>1311/8260D</i>

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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-062023-2131 (A3F1367-01)				Matrix: Solid		Batch: 23F1025		CONT
Acenaphthene	54700	1070	2160	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Acenaphthylene	ND	6300	6300	ug/kg dry	200	06/28/23 21:08	EPA 8270E	R-02
Anthracene	49600	1070	2160	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Benz(a)anthracene	28400	1070	2160	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Benzo(a)pyrene	31100	1620	3230	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Benzo(b)fluoranthene	25900	1620	3230	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Benzo(k)fluoranthene	10300	1620	3230	ug/kg dry	200	06/28/23 21:08	EPA 8270E	M-05
Benzo(g,h,i)perylene	21000	1070	2160	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Chrysene	38800	1070	2160	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Dibenz(a,h)anthracene	1840	1070	2160	ug/kg dry	200	06/28/23 21:08	EPA 8270E	J
Fluoranthene	141000	1070	2160	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Fluorene	36600	1070	2160	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Indeno(1,2,3-cd)pyrene	16000	1070	2160	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
1-Methylnaphthalene	13400	2160	4310	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
2-Methylnaphthalene	2310	2160	4310	ug/kg dry	200	06/28/23 21:08	EPA 8270E	J
Naphthalene	ND	2160	4310	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Phenanthrene	259000	1070	2160	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Pyrene	169000	1070	2160	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Carbazole	ND	1620	3230	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Dibenzofuran	ND	3880	3880	ug/kg dry	200	06/28/23 21:08	EPA 8270E	R-02
2-Chlorophenol	ND	5390	10700	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
4-Chloro-3-methylphenol	ND	10700	21600	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
2,4-Dichlorophenol	ND	5390	10700	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
2,4-Dimethylphenol	ND	5390	10700	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
2,4-Dinitrophenol	ND	26900	53900	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	26900	53900	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
2-Methylphenol	ND	2690	5390	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
3+4-Methylphenol(s)	ND	2690	5390	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
2-Nitrophenol	ND	10700	21600	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
4-Nitrophenol	ND	21600	21600	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Pentachlorophenol (PCP)	ND	10700	21600	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Phenol	ND	2160	4310	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	5390	10700	ug/kg dry	200	06/28/23 21:08	EPA 8270E	

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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-062023-2131 (A3F1367-01)				Matrix: Solid		Batch: 23F1025		CONT
2,3,5,6-Tetrachlorophenol	ND	5390	10700	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
2,4,5-Trichlorophenol	ND	5390	10700	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
2,4,6-Trichlorophenol	ND	5390	10700	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	16200	32300	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Butyl benzyl phthalate	ND	10700	21600	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Diethylphthalate	ND	10700	21600	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Dimethylphthalate	ND	10700	21600	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Di-n-butylphthalate	ND	10700	21600	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Di-n-octyl phthalate	ND	10700	21600	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
N-Nitrosodimethylamine	ND	2690	5390	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	2690	5390	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
N-Nitrosodiphenylamine	ND	7030	7030	ug/kg dry	200	06/28/23 21:08	EPA 8270E	R-02
Bis(2-Chloroethoxy) methane	ND	2690	5390	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	2690	5390	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	2690	5390	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Hexachlorobenzene	ND	1070	2160	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Hexachlorobutadiene	ND	2690	5390	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Hexachlorocyclopentadiene	ND	5390	10700	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Hexachloroethane	ND	2690	5390	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
2-Chloronaphthalene	ND	1070	2160	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
1,2,4-Trichlorobenzene	ND	2690	5390	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
4-Bromophenyl phenyl ether	ND	2690	5390	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	2690	5390	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Aniline	ND	5390	10700	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
4-Chloroaniline	ND	2690	5390	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
2-Nitroaniline	ND	21600	43100	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
3-Nitroaniline	ND	21600	43100	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
4-Nitroaniline	ND	21600	43100	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Nitrobenzene	ND	10700	21600	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
2,4-Dinitrotoluene	ND	10700	21600	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
2,6-Dinitrotoluene	ND	10700	21600	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Benzoic acid	ND	135000	269000	ug/kg dry	200	06/28/23 21:08	EPA 8270E	
Benzyl alcohol	ND	5390	10700	ug/kg dry	200	06/28/23 21:08	EPA 8270E	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
FC-062023-2131 (A3F1367-01)				Matrix: Solid		Batch: 23F1025		CONT	
Isophorone	ND	2690	5390	ug/kg dry	200	06/28/23 21:08	EPA 8270E		
Azobenzene (1,2-DPH)	ND	2690	5390	ug/kg dry	200	06/28/23 21:08	EPA 8270E		
Bis(2-Ethylhexyl) adipate	ND	26900	53900	ug/kg dry	200	06/28/23 21:08	EPA 8270E		
3,3'-Dichlorobenzidine	ND	21600	43100	ug/kg dry	200	06/28/23 21:08	EPA 8270E	Q-52	
1,2-Dinitrobenzene	ND	26900	53900	ug/kg dry	200	06/28/23 21:08	EPA 8270E		
1,3-Dinitrobenzene	ND	26900	53900	ug/kg dry	200	06/28/23 21:08	EPA 8270E		
1,4-Dinitrobenzene	ND	26900	53900	ug/kg dry	200	06/28/23 21:08	EPA 8270E		
Pyridine	ND	5390	10700	ug/kg dry	200	06/28/23 21:08	EPA 8270E		
1,2-Dichlorobenzene	ND	2690	5390	ug/kg dry	200	06/28/23 21:08	EPA 8270E		
1,3-Dichlorobenzene	ND	2690	5390	ug/kg dry	200	06/28/23 21:08	EPA 8270E		
1,4-Dichlorobenzene	ND	2690	5390	ug/kg dry	200	06/28/23 21:08	EPA 8270E		
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 37-122 %</i>		<i>200</i>	<i>06/28/23 21:08</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>2-Fluorobiphenyl (Surr)</i>		<i>99 %</i>		<i>44-120 %</i>		<i>200</i>	<i>06/28/23 21:08</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>Phenol-d6 (Surr)</i>		<i>80 %</i>		<i>33-122 %</i>		<i>200</i>	<i>06/28/23 21:08</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>102 %</i>		<i>54-127 %</i>		<i>200</i>	<i>06/28/23 21:08</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>2-Fluorophenol (Surr)</i>		<i>50 %</i>		<i>35-120 %</i>		<i>200</i>	<i>06/28/23 21:08</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>2,4,6-Tribromophenol (Surr)</i>		<i>%</i>		<i>39-132 %</i>		<i>200</i>	<i>06/28/23 21:08</i>	<i>EPA 8270E</i>	<i>S-01</i>

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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-062023-2131 (A3F1367-01)				Matrix: Solid				
Batch: 23F1041								
Arsenic	9130	2150	4310	ug/kg dry	10	06/28/23 16:07	EPA 6020B	CONT
Barium	218000	2150	4310	ug/kg dry	10	06/28/23 16:07	EPA 6020B	CONT
Cadmium	ND	431	861	ug/kg dry	10	06/28/23 16:07	EPA 6020B	CONT
Chromium	ND	2150	4310	ug/kg dry	10	06/28/23 16:07	EPA 6020B	CONT
Lead	ND	431	861	ug/kg dry	10	06/28/23 16:07	EPA 6020B	CONT
Mercury	ND	172	344	ug/kg dry	10	06/28/23 16:07	EPA 6020B	CONT
Selenium	ND	2150	4310	ug/kg dry	10	06/28/23 16:07	EPA 6020B	CONT
Silver	ND	431	861	ug/kg dry	10	06/28/23 16:07	EPA 6020B	CONT

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ANALYTICAL SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-062023-2131 (A3F1367-01)				Matrix: Solid				
Batch: 23F0883								
Arsenic	ND	50.0	100	ug/L	10	06/23/23 23:00	1311/6020B	CONT
Barium	ND	2500	5000	ug/L	10	06/23/23 23:00	1311/6020B	CONT
Cadmium	ND	50.0	100	ug/L	10	06/23/23 23:00	1311/6020B	CONT
Chromium	ND	50.0	100	ug/L	10	06/23/23 23:00	1311/6020B	CONT
Lead	ND	25.0	50.0	ug/L	10	06/23/23 23:00	1311/6020B	CONT
Mercury	ND	3.75	7.00	ug/L	10	06/23/23 23:00	1311/6020B	CONT
Selenium	ND	50.0	100	ug/L	10	06/23/23 23:00	1311/6020B	CONT
Silver	ND	50.0	100	ug/L	10	06/23/23 23:00	1311/6020B	CONT

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ANALYTICAL SAMPLE RESULTS

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-062023-2131 (A3F1367-01RE1)				Matrix: Solid		Batch: 23F0801		CONT
Total Cyanide	4100	404	808	ug/kg dry	2	06/22/23 19:49	D7511-12	Q-42

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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-062023-2131 (A3F1367-01)				Matrix: Solid		Batch: 23F0817		CONT
% Solids	24.7	---	1.00	%	1	06/23/23 06:08	EPA 8000D	

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ANALYTICAL SAMPLE RESULTS

TCLP Extraction by EPA 1311

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-062023-2131 (A3F1367-01)				Matrix: Solid		Batch: 23F0831		CONT
TCLP Extraction	PREP	---		N/A	1	06/22/23 16:35	EPA 1311	
TCLP ZHE Extraction	PREP	---		N/A	1	06/28/23 14:35	EPA 1311 ZHE	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F1026 - EPA 3546 (Fuels)						Solid						
Blank (23F1026-BLK1)			Prepared: 06/28/23 05:15 Analyzed: 06/29/23 04:00									
<u>NWTPH-Dx</u>												
Diesel	ND	10000	20000	ug/kg wet	1	---	---	---	---	---	---	
Oil	ND	20000	40000	ug/kg wet	1	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 94 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
LCS (23F1026-BS1)			Prepared: 06/28/23 05:15 Analyzed: 06/29/23 04:20									
<u>NWTPH-Dx</u>												
Diesel	108000	10000	20000	ug/kg wet	1	125000	---	86	38-132%	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
Duplicate (23F1026-DUP1)			Prepared: 06/28/23 05:15 Analyzed: 06/29/23 05:01									
<u>QC Source Sample: Non-SDG (A3F1226-01)</u>												
Diesel	219000	18100	36100	ug/kg dry	1	---	143000	---	---	42	30%	F-13, Q-05
Oil	71400	36100	72200	ug/kg dry	1	---	59500	---	---	18	30%	J
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 36 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						<i>S-03</i>

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0807 - EPA 5035A						Soil						
Blank (23F0807-BLK1)						Prepared: 06/22/23 08:40 Analyzed: 06/22/23 10:52						
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	2500	5000	ug/kg wet	50	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 101 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>106 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (23F0807-BS2)						Prepared: 06/22/23 08:40 Analyzed: 06/22/23 10:26						
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	28000	2500	5000	ug/kg wet	50	25000	---	112	80-120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 103 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>106 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (23F0807-DUP1)						Prepared: 06/21/23 16:55 Analyzed: 06/22/23 11:43						
<u>QC Source Sample: Non-SDG (A3F1377-01)</u>												
Gasoline Range Organics	ND	4130	8260	ug/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 104 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>107 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (23F0807-DUP2)						Prepared: 06/21/23 16:36 Analyzed: 06/22/23 16:48						
<u>QC Source Sample: Non-SDG (A3F1375-01)</u>												
Gasoline Range Organics	ND	80500	161000	ug/kg dry	500	---	ND	---	---	---	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 102 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>103 %</i>		<i>50-150 %</i>		<i>"</i>						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0856 - EPA 5035A						Soil						
Blank (23F0856-BLK1)						Prepared: 06/23/23 08:53 Analyzed: 06/23/23 10:35						
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	2500	5000	ug/kg wet	50	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 103 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>108 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (23F0856-BS2)						Prepared: 06/23/23 08:53 Analyzed: 06/23/23 10:06						
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	26100	2500	5000	ug/kg wet	50	25000	---	104	80-120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 98 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>107 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (23F0856-DUP1)						Prepared: 06/19/23 09:30 Analyzed: 06/23/23 11:26						
<u>QC Source Sample: Non-SDG (A3F1410-01)</u>												
Gasoline Range Organics	ND	3920	7840	ug/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 103 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>110 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (23F0856-DUP2)						Prepared: 06/20/23 14:15 Analyzed: 06/23/23 18:15						
<u>QC Source Sample: Non-SDG (A3F1425-01)</u>												
Gasoline Range Organics	ND	3540	7080	ug/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 106 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>108 %</i>		<i>50-150 %</i>		<i>"</i>						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0807 - EPA 5035A						Soil						
Blank (23F0807-BLK1)						Prepared: 06/22/23 08:40 Analyzed: 06/22/23 10:52						
<u>5035A/8260D</u>												
Acetone	ND	500	1000	ug/kg wet	50	---	---	---	---	---	---	
Acrylonitrile	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Benzene	ND	5.00	10.0	ug/kg wet	50	---	---	---	---	---	---	
Bromobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Bromochloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromodichloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromoform	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Bromomethane	ND	500	500	ug/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
n-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Carbon disulfide	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Chloroethane	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chloromethane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromochloromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromomethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	----------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0807 - EPA 5035A						Soil						
Blank (23F0807-BLK1)			Prepared: 06/22/23 08:40 Analyzed: 06/22/23 10:52									
1,2-Dichloropropane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Methylene chloride	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Styrene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 101 % Limits: 80-120 % Dilution: 1x

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0807 - EPA 5035A						Soil						
Blank (23F0807-BLK1)						Prepared: 06/22/23 08:40 Analyzed: 06/22/23 10:52						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>79-120 %</i>		<i>"</i>						
LCS (23F0807-BS1)						Prepared: 06/22/23 08:40 Analyzed: 06/22/23 10:01						
5035A/8260D												
Acetone	1920	500	1000	ug/kg wet	50	2000	---	96	80-120%	---	---	
Acrylonitrile	997	50.0	100	ug/kg wet	50	1000	---	100	80-120%	---	---	
Benzene	1020	5.00	10.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
Bromobenzene	940	12.5	25.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
Bromochloromethane	1070	25.0	50.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
Bromodichloromethane	1080	25.0	50.0	ug/kg wet	50	1000	---	108	80-120%	---	---	
Bromoform	1030	50.0	100	ug/kg wet	50	1000	---	103	80-120%	---	---	
Bromomethane	1100	500	500	ug/kg wet	50	1000	---	110	80-120%	---	---	
2-Butanone (MEK)	1930	250	500	ug/kg wet	50	2000	---	97	80-120%	---	---	
n-Butylbenzene	956	25.0	50.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
sec-Butylbenzene	982	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
tert-Butylbenzene	934	25.0	50.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
Carbon disulfide	915	250	500	ug/kg wet	50	1000	---	92	80-120%	---	---	
Carbon tetrachloride	1140	25.0	50.0	ug/kg wet	50	1000	---	114	80-120%	---	---	
Chlorobenzene	1000	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Chloroethane	1280	250	500	ug/kg wet	50	1000	---	128	80-120%	---	---	Q-56
Chloroform	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Chloromethane	917	125	250	ug/kg wet	50	1000	---	92	80-120%	---	---	
2-Chlorotoluene	948	25.0	50.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
4-Chlorotoluene	947	25.0	50.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
Dibromochloromethane	1150	50.0	100	ug/kg wet	50	1000	---	115	80-120%	---	---	
1,2-Dibromo-3-chloropropane	972	125	250	ug/kg wet	50	1000	---	97	80-120%	---	---	
1,2-Dibromoethane (EDB)	992	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
Dibromomethane	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,2-Dichlorobenzene	988	12.5	25.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
1,3-Dichlorobenzene	980	12.5	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
1,4-Dichlorobenzene	960	12.5	25.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
Dichlorodifluoromethane	1090	50.0	100	ug/kg wet	50	1000	---	109	80-120%	---	---	
1,1-Dichloroethane	1030	12.5	25.0	ug/kg wet	50	1000	---	103	80-120%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0807 - EPA 5035A						Soil						
LCS (23F0807-BS1)			Prepared: 06/22/23 08:40 Analyzed: 06/22/23 10:01									
1,2-Dichloroethane (EDC)	1050	12.5	25.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
1,1-Dichloroethene	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
cis-1,2-Dichloroethene	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
trans-1,2-Dichloroethene	1000	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
1,2-Dichloropropane	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
1,3-Dichloropropane	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
2,2-Dichloropropane	985	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
1,1-Dichloropropene	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
cis-1,3-Dichloropropene	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
trans-1,3-Dichloropropene	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Ethylbenzene	958	12.5	25.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
Hexachlorobutadiene	952	50.0	100	ug/kg wet	50	1000	---	95	80-120%	---	---	
2-Hexanone	1660	250	500	ug/kg wet	50	2000	---	83	80-120%	---	---	
Isopropylbenzene	951	25.0	50.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
4-Isopropyltoluene	966	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
Methylene chloride	1110	250	500	ug/kg wet	50	1000	---	111	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	1750	250	500	ug/kg wet	50	2000	---	88	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	926	25.0	50.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
Naphthalene	905	50.0	100	ug/kg wet	50	1000	---	90	80-120%	---	---	
n-Propylbenzene	969	12.5	25.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
Styrene	943	25.0	50.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
1,1,1,2-Tetrachloroethane	1100	12.5	25.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
1,1,2,2-Tetrachloroethane	878	25.0	50.0	ug/kg wet	50	1000	---	88	80-120%	---	---	
Tetrachloroethene (PCE)	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
Toluene	963	25.0	50.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
1,2,3-Trichlorobenzene	956	125	250	ug/kg wet	50	1000	---	96	80-120%	---	---	
1,2,4-Trichlorobenzene	896	125	250	ug/kg wet	50	1000	---	90	80-120%	---	---	
1,1,1-Trichloroethane	1100	12.5	25.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
1,1,2-Trichloroethane	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
Trichloroethene (TCE)	1120	12.5	25.0	ug/kg wet	50	1000	---	112	80-120%	---	---	
Trichlorofluoromethane	826	50.0	100	ug/kg wet	50	1000	---	83	80-120%	---	---	
1,2,3-Trichloropropane	993	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
1,2,4-Trimethylbenzene	938	25.0	50.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
1,3,5-Trimethylbenzene	979	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0807 - EPA 5035A						Soil						
LCS (23F0807-BS1)						Prepared: 06/22/23 08:40 Analyzed: 06/22/23 10:01						
Vinyl chloride	1080	12.5	25.0	ug/kg wet	50	1000	---	108	80-120%	---	---	
m,p-Xylene	1880	25.0	50.0	ug/kg wet	50	2000	---	94	80-120%	---	---	
o-Xylene	900	12.5	25.0	ug/kg wet	50	1000	---	90	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 99 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>103 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>93 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (23F0807-DUP1) Prepared: 06/21/23 16:55 Analyzed: 06/22/23 11:43 **V-15**

QC Source Sample: Non-SDG (A3F1377-01)

Acetone	ND	826	1650	ug/kg dry	50	---	ND	---	---	---	30%
Acrylonitrile	ND	82.6	165	ug/kg dry	50	---	ND	---	---	---	30%
Benzene	ND	8.26	16.5	ug/kg dry	50	---	ND	---	---	---	30%
Bromobenzene	ND	20.6	41.3	ug/kg dry	50	---	ND	---	---	---	30%
Bromochloromethane	ND	41.3	82.6	ug/kg dry	50	---	ND	---	---	---	30%
Bromodichloromethane	ND	41.3	82.6	ug/kg dry	50	---	ND	---	---	---	30%
Bromoform	ND	82.6	165	ug/kg dry	50	---	ND	---	---	---	30%
Bromomethane	ND	826	826	ug/kg dry	50	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	413	826	ug/kg dry	50	---	ND	---	---	---	30%
n-Butylbenzene	ND	41.3	82.6	ug/kg dry	50	---	ND	---	---	---	30%
sec-Butylbenzene	ND	41.3	82.6	ug/kg dry	50	---	ND	---	---	---	30%
tert-Butylbenzene	ND	41.3	82.6	ug/kg dry	50	---	ND	---	---	---	30%
Carbon disulfide	ND	413	826	ug/kg dry	50	---	ND	---	---	---	30%
Carbon tetrachloride	ND	41.3	82.6	ug/kg dry	50	---	ND	---	---	---	30%
Chlorobenzene	ND	20.6	41.3	ug/kg dry	50	---	ND	---	---	---	30%
Chloroethane	ND	413	826	ug/kg dry	50	---	ND	---	---	---	30%
Chloroform	ND	41.3	82.6	ug/kg dry	50	---	ND	---	---	---	30%
Chloromethane	ND	206	413	ug/kg dry	50	---	ND	---	---	---	30%
2-Chlorotoluene	ND	41.3	82.6	ug/kg dry	50	---	ND	---	---	---	30%
4-Chlorotoluene	ND	41.3	82.6	ug/kg dry	50	---	ND	---	---	---	30%
Dibromochloromethane	ND	82.6	165	ug/kg dry	50	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	206	413	ug/kg dry	50	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	41.3	82.6	ug/kg dry	50	---	ND	---	---	---	30%
Dibromomethane	ND	41.3	82.6	ug/kg dry	50	---	ND	---	---	---	30%
1,2-Dichlorobenzene	ND	20.6	41.3	ug/kg dry	50	---	ND	---	---	---	30%

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23F0807 - EPA 5035A						Soil							
Duplicate (23F0807-DUP1)			Prepared: 06/21/23 16:55 Analyzed: 06/22/23 11:43						V-15				
QC Source Sample: Non-SDG (A3F1377-01)													
1,3-Dichlorobenzene	ND	20.6	41.3	ug/kg dry	50	---	ND	---	---	---	30%		
1,4-Dichlorobenzene	ND	20.6	41.3	ug/kg dry	50	---	ND	---	---	---	30%		
Dichlorodifluoromethane	ND	82.6	165	ug/kg dry	50	---	ND	---	---	---	30%		
1,1-Dichloroethane	ND	20.6	41.3	ug/kg dry	50	---	ND	---	---	---	30%		
1,2-Dichloroethane (EDC)	ND	20.6	41.3	ug/kg dry	50	---	ND	---	---	---	30%		
1,1-Dichloroethene	ND	20.6	41.3	ug/kg dry	50	---	ND	---	---	---	30%		
cis-1,2-Dichloroethene	ND	20.6	41.3	ug/kg dry	50	---	ND	---	---	---	30%		
trans-1,2-Dichloroethene	ND	20.6	41.3	ug/kg dry	50	---	ND	---	---	---	30%		
1,2-Dichloropropane	ND	20.6	41.3	ug/kg dry	50	---	ND	---	---	---	30%		
1,3-Dichloropropane	ND	41.3	82.6	ug/kg dry	50	---	ND	---	---	---	30%		
2,2-Dichloropropane	ND	41.3	82.6	ug/kg dry	50	---	ND	---	---	---	30%		
1,1-Dichloropropene	ND	41.3	82.6	ug/kg dry	50	---	ND	---	---	---	30%		
cis-1,3-Dichloropropene	ND	41.3	82.6	ug/kg dry	50	---	ND	---	---	---	30%		
trans-1,3-Dichloropropene	ND	41.3	82.6	ug/kg dry	50	---	ND	---	---	---	30%		
Ethylbenzene	ND	20.6	41.3	ug/kg dry	50	---	ND	---	---	---	30%		
Hexachlorobutadiene	ND	82.6	165	ug/kg dry	50	---	ND	---	---	---	30%		
2-Hexanone	ND	413	826	ug/kg dry	50	---	ND	---	---	---	30%		
Isopropylbenzene	ND	41.3	82.6	ug/kg dry	50	---	ND	---	---	---	30%		
4-Isopropyltoluene	ND	41.3	82.6	ug/kg dry	50	---	ND	---	---	---	30%		
Methylene chloride	ND	413	826	ug/kg dry	50	---	ND	---	---	---	30%		
4-Methyl-2-pentanone (MiBK)	ND	413	826	ug/kg dry	50	---	ND	---	---	---	30%		
Methyl tert-butyl ether (MTBE)	ND	41.3	82.6	ug/kg dry	50	---	ND	---	---	---	30%		
Naphthalene	ND	82.6	165	ug/kg dry	50	---	ND	---	---	---	30%		
n-Propylbenzene	ND	20.6	41.3	ug/kg dry	50	---	ND	---	---	---	30%		
Styrene	ND	41.3	82.6	ug/kg dry	50	---	ND	---	---	---	30%		
1,1,1,2-Tetrachloroethane	ND	20.6	41.3	ug/kg dry	50	---	ND	---	---	---	30%		
1,1,2,2-Tetrachloroethane	ND	41.3	82.6	ug/kg dry	50	---	ND	---	---	---	30%		
Tetrachloroethene (PCE)	ND	20.6	41.3	ug/kg dry	50	---	ND	---	---	---	30%		
Toluene	ND	41.3	82.6	ug/kg dry	50	---	ND	---	---	---	30%		
1,2,3-Trichlorobenzene	ND	206	413	ug/kg dry	50	---	ND	---	---	---	30%		
1,2,4-Trichlorobenzene	ND	206	413	ug/kg dry	50	---	ND	---	---	---	30%		
1,1,1-Trichloroethane	ND	20.6	41.3	ug/kg dry	50	---	ND	---	---	---	30%		
1,1,2-Trichloroethane	ND	20.6	41.3	ug/kg dry	50	---	ND	---	---	---	30%		

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23F0807 - EPA 5035A						Soil							
Duplicate (23F0807-DUP1)			Prepared: 06/21/23 16:55 Analyzed: 06/22/23 11:43						V-15				
QC Source Sample: Non-SDG (A3F1377-01)													
Trichloroethene (TCE)	ND	20.6	41.3	ug/kg dry	50	---	ND	---	---	---	30%		
Trichlorofluoromethane	ND	82.6	165	ug/kg dry	50	---	ND	---	---	---	30%		
1,2,3-Trichloropropane	ND	41.3	82.6	ug/kg dry	50	---	ND	---	---	---	30%		
1,2,4-Trimethylbenzene	ND	41.3	82.6	ug/kg dry	50	---	ND	---	---	---	30%		
1,3,5-Trimethylbenzene	ND	41.3	82.6	ug/kg dry	50	---	ND	---	---	---	30%		
Vinyl chloride	ND	20.6	41.3	ug/kg dry	50	---	ND	---	---	---	30%		
m,p-Xylene	ND	41.3	82.6	ug/kg dry	50	---	ND	---	---	---	30%		
o-Xylene	ND	20.6	41.3	ug/kg dry	50	---	ND	---	---	---	30%		
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>							
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>"</i>							
<i>4-Bromofluorobenzene (Surr)</i>		<i>94 %</i>		<i>79-120 %</i>		<i>"</i>							

Duplicate (23F0807-DUP2)			Prepared: 06/21/23 16:36 Analyzed: 06/22/23 16:48						V-15				
QC Source Sample: Non-SDG (A3F1375-01)													
Acetone	ND	16100	32200	ug/kg dry	500	---	ND	---	---	---	30%		
Acrylonitrile	ND	1610	3220	ug/kg dry	500	---	ND	---	---	---	30%		
Benzene	ND	161	322	ug/kg dry	500	---	ND	---	---	---	30%		
Bromobenzene	ND	403	805	ug/kg dry	500	---	ND	---	---	---	30%		
Bromochloromethane	ND	805	1610	ug/kg dry	500	---	ND	---	---	---	30%		
Bromodichloromethane	ND	805	1610	ug/kg dry	500	---	ND	---	---	---	30%		
Bromoform	ND	1610	3220	ug/kg dry	500	---	ND	---	---	---	30%		
Bromomethane	ND	16100	16100	ug/kg dry	500	---	ND	---	---	---	30%		
2-Butanone (MEK)	ND	8050	16100	ug/kg dry	500	---	ND	---	---	---	30%		
n-Butylbenzene	ND	805	1610	ug/kg dry	500	---	ND	---	---	---	30%		
sec-Butylbenzene	ND	805	1610	ug/kg dry	500	---	ND	---	---	---	30%		
tert-Butylbenzene	ND	805	1610	ug/kg dry	500	---	ND	---	---	---	30%		
Carbon disulfide	ND	8050	16100	ug/kg dry	500	---	ND	---	---	---	30%		
Carbon tetrachloride	ND	805	1610	ug/kg dry	500	---	ND	---	---	---	30%		
Chlorobenzene	ND	403	805	ug/kg dry	500	---	ND	---	---	---	30%		
Chloroethane	ND	8050	16100	ug/kg dry	500	---	ND	---	---	---	30%		
Chloroform	805	805	1610	ug/kg dry	500	---	837	---	---	200	30%	J	
Chloromethane	ND	4030	8050	ug/kg dry	500	---	ND	---	---	---	30%		
2-Chlorotoluene	ND	805	1610	ug/kg dry	500	---	ND	---	---	---	30%		

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0807 - EPA 5035A						Soil						
Duplicate (23F0807-DUP2)						Prepared: 06/21/23 16:36 Analyzed: 06/22/23 16:48						V-15
QC Source Sample: Non-SDG (A3F1375-01)												
4-Chlorotoluene	ND	805	1610	ug/kg dry	500	---	ND	---	---	---	30%	
Dibromochloromethane	ND	1610	3220	ug/kg dry	500	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	4030	8050	ug/kg dry	500	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	805	1610	ug/kg dry	500	---	ND	---	---	---	30%	
Dibromomethane	ND	805	1610	ug/kg dry	500	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	403	805	ug/kg dry	500	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	403	805	ug/kg dry	500	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	403	805	ug/kg dry	500	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	1610	3220	ug/kg dry	500	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	403	805	ug/kg dry	500	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	403	805	ug/kg dry	500	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	403	805	ug/kg dry	500	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	403	805	ug/kg dry	500	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	403	805	ug/kg dry	500	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	403	805	ug/kg dry	500	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	805	1610	ug/kg dry	500	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	805	1610	ug/kg dry	500	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	805	1610	ug/kg dry	500	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	805	1610	ug/kg dry	500	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	805	1610	ug/kg dry	500	---	ND	---	---	---	30%	
Ethylbenzene	ND	403	805	ug/kg dry	500	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	1610	3220	ug/kg dry	500	---	ND	---	---	---	30%	
2-Hexanone	ND	8050	16100	ug/kg dry	500	---	ND	---	---	---	30%	
Isopropylbenzene	ND	805	1610	ug/kg dry	500	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	805	1610	ug/kg dry	500	---	ND	---	---	---	30%	
Methylene chloride	ND	8050	16100	ug/kg dry	500	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	8050	16100	ug/kg dry	500	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	805	1610	ug/kg dry	500	---	ND	---	---	---	30%	
Naphthalene	ND	1610	3220	ug/kg dry	500	---	ND	---	---	---	30%	
n-Propylbenzene	ND	403	805	ug/kg dry	500	---	ND	---	---	---	30%	
Styrene	ND	805	1610	ug/kg dry	500	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	403	805	ug/kg dry	500	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	805	1610	ug/kg dry	500	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23F0807 - EPA 5035A						Soil							
Duplicate (23F0807-DUP2)			Prepared: 06/21/23 16:36 Analyzed: 06/22/23 16:48						V-15				
QC Source Sample: Non-SDG (A3F1375-01)													
Tetrachloroethene (PCE)	ND	403	805	ug/kg dry	500	---	ND	---	---	---	30%		
Toluene	ND	805	1610	ug/kg dry	500	---	ND	---	---	---	30%		
1,2,3-Trichlorobenzene	ND	4030	8050	ug/kg dry	500	---	ND	---	---	---	30%		
1,2,4-Trichlorobenzene	ND	4030	8050	ug/kg dry	500	---	ND	---	---	---	30%		
1,1,1-Trichloroethane	ND	403	805	ug/kg dry	500	---	ND	---	---	---	30%		
1,1,2-Trichloroethane	ND	403	805	ug/kg dry	500	---	ND	---	---	---	30%		
Trichloroethene (TCE)	ND	403	805	ug/kg dry	500	---	ND	---	---	---	30%		
Trichlorofluoromethane	ND	1610	3220	ug/kg dry	500	---	ND	---	---	---	30%		
1,2,3-Trichloropropane	ND	805	1610	ug/kg dry	500	---	ND	---	---	---	30%		
1,2,4-Trimethylbenzene	ND	805	1610	ug/kg dry	500	---	ND	---	---	---	30%		
1,3,5-Trimethylbenzene	ND	805	1610	ug/kg dry	500	---	ND	---	---	---	30%		
Vinyl chloride	ND	403	805	ug/kg dry	500	---	ND	---	---	---	30%		
m,p-Xylene	ND	805	1610	ug/kg dry	500	---	ND	---	---	---	30%		
o-Xylene	ND	403	805	ug/kg dry	500	---	ND	---	---	---	30%		
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>							
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>							
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>79-120 %</i>		<i>"</i>							

Matrix Spike (23F0807-MS1)			Prepared: 06/21/23 16:06 Analyzed: 06/22/23 15:32						V-15				
QC Source Sample: Non-SDG (A3F1336-02)													
5035A/8260D													
Acetone	32400	7930	15900	ug/kg dry	500	31700	ND	102	36-164%	---	---		
Acrylonitrile	16100	793	1590	ug/kg dry	500	15900	ND	102	65-134%	---	---		
Benzene	17200	79.3	159	ug/kg dry	500	15900	ND	109	77-121%	---	---		
Bromobenzene	16000	198	397	ug/kg dry	500	15900	ND	101	78-121%	---	---		
Bromochloromethane	17500	397	793	ug/kg dry	500	15900	ND	111	78-125%	---	---		
Bromodichloromethane	17500	397	793	ug/kg dry	500	15900	ND	110	75-127%	---	---		
Bromoform	15500	793	1590	ug/kg dry	500	15900	ND	98	67-132%	---	---		
Bromomethane	19600	7930	7930	ug/kg dry	500	15900	ND	124	53-143%	---	---		
2-Butanone (MEK)	30800	3970	7930	ug/kg dry	500	31700	ND	97	51-148%	---	---		
n-Butylbenzene	20900	397	793	ug/kg dry	500	15900	1660	121	70-128%	---	---		
sec-Butylbenzene	18800	397	793	ug/kg dry	500	15900	539	115	73-126%	---	---		
tert-Butylbenzene	17600	397	793	ug/kg dry	500	15900	ND	111	73-125%	---	---		

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ANALYTICAL REPORT

Apex Laboratories, LLC

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 503-718-2323
 ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0807 - EPA 5035A						Soil						
Matrix Spike (23F0807-MS1)						Prepared: 06/21/23 16:06 Analyzed: 06/22/23 15:32						V-15
QC Source Sample: Non-SDG (A3F1336-02)												
Carbon disulfide	15300	3970	7930	ug/kg dry	500	15900	ND	97	63-132%	---	---	
Carbon tetrachloride	19700	397	793	ug/kg dry	500	15900	ND	124	70-135%	---	---	
Chlorobenzene	16600	198	397	ug/kg dry	500	15900	ND	105	79-120%	---	---	
Chloroethane	21500	3970	7930	ug/kg dry	500	15900	ND	136	59-139%	---	---	Q-54a
Chloroform	16900	397	793	ug/kg dry	500	15900	ND	107	78-123%	---	---	
Chloromethane	15500	1980	3970	ug/kg dry	500	15900	ND	98	50-136%	---	---	
2-Chlorotoluene	17000	397	793	ug/kg dry	500	15900	ND	107	75-122%	---	---	
4-Chlorotoluene	16700	397	793	ug/kg dry	500	15900	ND	105	72-124%	---	---	
Dibromochloromethane	18200	793	1590	ug/kg dry	500	15900	ND	115	74-126%	---	---	
1,2-Dibromo-3-chloropropane	16400	1980	3970	ug/kg dry	500	15900	ND	104	61-132%	---	---	
1,2-Dibromoethane (EDB)	16300	397	793	ug/kg dry	500	15900	ND	103	78-122%	---	---	
Dibromomethane	17000	397	793	ug/kg dry	500	15900	ND	107	78-125%	---	---	
1,2-Dichlorobenzene	16900	198	397	ug/kg dry	500	15900	ND	107	78-121%	---	---	
1,3-Dichlorobenzene	16900	198	397	ug/kg dry	500	15900	ND	106	77-121%	---	---	
1,4-Dichlorobenzene	16100	198	397	ug/kg dry	500	15900	ND	102	75-120%	---	---	
Dichlorodifluoromethane	18900	793	1590	ug/kg dry	500	15900	ND	119	29-149%	---	---	
1,1-Dichloroethane	17400	198	397	ug/kg dry	500	15900	ND	110	76-125%	---	---	
1,2-Dichloroethane (EDC)	17400	198	397	ug/kg dry	500	15900	ND	110	73-128%	---	---	
1,1-Dichloroethene	18200	198	397	ug/kg dry	500	15900	ND	115	70-131%	---	---	
cis-1,2-Dichloroethene	17200	198	397	ug/kg dry	500	15900	ND	108	77-123%	---	---	
trans-1,2-Dichloroethene	17000	198	397	ug/kg dry	500	15900	ND	107	74-125%	---	---	
1,2-Dichloropropane	16700	198	397	ug/kg dry	500	15900	ND	106	76-123%	---	---	
1,3-Dichloropropane	16500	397	793	ug/kg dry	500	15900	ND	104	77-121%	---	---	
2,2-Dichloropropane	16800	397	793	ug/kg dry	500	15900	ND	106	67-133%	---	---	
1,1-Dichloropropene	18000	397	793	ug/kg dry	500	15900	ND	114	76-125%	---	---	
cis-1,3-Dichloropropene	16500	397	793	ug/kg dry	500	15900	ND	104	74-126%	---	---	
trans-1,3-Dichloropropene	16000	397	793	ug/kg dry	500	15900	ND	101	71-130%	---	---	
Ethylbenzene	16600	198	397	ug/kg dry	500	15900	349	102	76-122%	---	---	
Hexachlorobutadiene	20800	793	1590	ug/kg dry	500	15900	ND	131	61-135%	---	---	
2-Hexanone	28000	3970	7930	ug/kg dry	500	31700	ND	88	53-145%	---	---	
Isopropylbenzene	17400	397	793	ug/kg dry	500	15900	ND	110	68-134%	---	---	
4-Isopropyltoluene	19500	397	793	ug/kg dry	500	15900	ND	123	73-127%	---	---	
Methylene chloride	17800	3970	7930	ug/kg dry	500	15900	ND	112	70-128%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0807 - EPA 5035A						Soil						
Matrix Spike (23F0807-MS1)						Prepared: 06/21/23 16:06 Analyzed: 06/22/23 15:32						V-15
QC Source Sample: Non-SDG (A3F1336-02)												
4-Methyl-2-pentanone (MiBK)	29800	3970	7930	ug/kg dry	500	31700	ND	94	65-135%	---	---	
Methyl tert-butyl ether (MTBE)	15300	397	793	ug/kg dry	500	15900	ND	97	73-125%	---	---	
Naphthalene	19600	793	1590	ug/kg dry	500	15900	ND	118	62-129%	---	---	
n-Propylbenzene	18200	198	397	ug/kg dry	500	15900	857	109	73-125%	---	---	
Styrene	16100	397	793	ug/kg dry	500	15900	ND	102	76-124%	---	---	
1,1,1,2-Tetrachloroethane	17800	198	397	ug/kg dry	500	15900	ND	113	78-125%	---	---	
1,1,2,2-Tetrachloroethane	14800	397	793	ug/kg dry	500	15900	ND	94	70-124%	---	---	
Tetrachloroethene (PCE)	16800	198	397	ug/kg dry	500	15900	ND	106	73-128%	---	---	
Toluene	16100	397	793	ug/kg dry	500	15900	ND	101	77-121%	---	---	
1,2,3-Trichlorobenzene	17800	1980	3970	ug/kg dry	500	15900	ND	112	66-130%	---	---	
1,2,4-Trichlorobenzene	17300	1980	3970	ug/kg dry	500	15900	ND	109	67-129%	---	---	
1,1,1-Trichloroethane	18800	198	397	ug/kg dry	500	15900	ND	118	73-130%	---	---	
1,1,2-Trichloroethane	16900	198	397	ug/kg dry	500	15900	ND	107	78-121%	---	---	
Trichloroethene (TCE)	18800	198	397	ug/kg dry	500	15900	ND	118	77-123%	---	---	
Trichlorofluoromethane	15400	793	1590	ug/kg dry	500	15900	ND	97	62-140%	---	---	
1,2,3-Trichloropropane	16600	397	793	ug/kg dry	500	15900	ND	105	73-125%	---	---	
1,2,4-Trimethylbenzene	21800	397	793	ug/kg dry	500	15900	4930	106	75-123%	---	---	
1,3,5-Trimethylbenzene	18900	397	793	ug/kg dry	500	15900	1710	108	73-124%	---	---	
Vinyl chloride	19000	198	397	ug/kg dry	500	15900	ND	120	56-135%	---	---	
m,p-Xylene	33800	397	793	ug/kg dry	500	31700	1470	102	77-124%	---	---	
o-Xylene	17300	198	397	ug/kg dry	500	15900	1070	102	77-123%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>79-120 %</i>		<i>"</i>						

Apex Laboratories

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc.	Project: Gasco -- Filtercake	
2749 Lockport Road	Project Number: 111323	Report ID:
Niagara Falls, NY 14305	Project Manager: Chip Byrd	A3F1367 - 07 25 23 1421

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0856 - EPA 5035A						Soil						
Blank (23F0856-BLK1)						Prepared: 06/23/23 08:53 Analyzed: 06/23/23 10:35						
<u>5035A/8260D</u>												
Acetone	ND	500	1000	ug/kg wet	50	---	---	---	---	---	---	
Acrylonitrile	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Benzene	ND	5.00	10.0	ug/kg wet	50	---	---	---	---	---	---	
Bromobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Bromochloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromodichloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromoform	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Bromomethane	ND	500	500	ug/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
n-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Carbon disulfide	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Chloroethane	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chloromethane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromochloromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromomethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0856 - EPA 5035A						Soil						
Blank (23F0856-BLK1)			Prepared: 06/23/23 08:53 Analyzed: 06/23/23 10:35									
1,2-Dichloropropane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	500	500	ug/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Methylene chloride	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Styrene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 102 % Limits: 80-120 % Dilution: 1x

Apex Laboratories

Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0856 - EPA 5035A						Soil						
Blank (23F0856-BLK1)						Prepared: 06/23/23 08:53 Analyzed: 06/23/23 10:35						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>94 %</i>		<i>79-120 %</i>		<i>"</i>						
LCS (23F0856-BS1)						Prepared: 06/23/23 08:53 Analyzed: 06/23/23 09:40						
5035A/8260D												
Acetone	1890	500	1000	ug/kg wet	50	2000	---	95	80-120%	---	---	
Acrylonitrile	995	50.0	100	ug/kg wet	50	1000	---	100	80-120%	---	---	
Benzene	1020	5.00	10.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
Bromobenzene	910	12.5	25.0	ug/kg wet	50	1000	---	91	80-120%	---	---	
Bromochloromethane	1080	25.0	50.0	ug/kg wet	50	1000	---	108	80-120%	---	---	
Bromodichloromethane	1090	25.0	50.0	ug/kg wet	50	1000	---	109	80-120%	---	---	
Bromoform	1030	50.0	100	ug/kg wet	50	1000	---	103	80-120%	---	---	
Bromomethane	1120	500	500	ug/kg wet	50	1000	---	112	80-120%	---	---	
2-Butanone (MEK)	1920	250	500	ug/kg wet	50	2000	---	96	80-120%	---	---	
n-Butylbenzene	938	25.0	50.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
sec-Butylbenzene	954	25.0	50.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
tert-Butylbenzene	906	25.0	50.0	ug/kg wet	50	1000	---	91	80-120%	---	---	
Carbon disulfide	922	250	500	ug/kg wet	50	1000	---	92	80-120%	---	---	
Carbon tetrachloride	1130	25.0	50.0	ug/kg wet	50	1000	---	113	80-120%	---	---	
Chlorobenzene	987	12.5	25.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
Chloroethane	1320	250	500	ug/kg wet	50	1000	---	132	80-120%	---	---	Q-56
Chloroform	1000	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Chloromethane	934	125	250	ug/kg wet	50	1000	---	93	80-120%	---	---	
2-Chlorotoluene	910	25.0	50.0	ug/kg wet	50	1000	---	91	80-120%	---	---	
4-Chlorotoluene	930	25.0	50.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
Dibromochloromethane	1160	50.0	100	ug/kg wet	50	1000	---	116	80-120%	---	---	
1,2-Dibromo-3-chloropropane	933	125	250	ug/kg wet	50	1000	---	93	80-120%	---	---	
1,2-Dibromoethane (EDB)	974	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
Dibromomethane	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,2-Dichlorobenzene	960	12.5	25.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
1,3-Dichlorobenzene	962	12.5	25.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
1,4-Dichlorobenzene	944	12.5	25.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
Dichlorodifluoromethane	1040	50.0	100	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,1-Dichloroethane	1040	12.5	25.0	ug/kg wet	50	1000	---	104	80-120%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0856 - EPA 5035A						Soil						
LCS (23F0856-BS1)			Prepared: 06/23/23 08:53 Analyzed: 06/23/23 09:40									
1,2-Dichloroethane (EDC)	1050	12.5	25.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
1,1-Dichloroethene	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
cis-1,2-Dichloroethene	1000	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
trans-1,2-Dichloroethene	986	12.5	25.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
1,2-Dichloropropane	1030	12.5	25.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
1,3-Dichloropropane	1000	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
2,2-Dichloropropane	981	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
1,1-Dichloropropene	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
cis-1,3-Dichloropropene	1020	25.0	50.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
trans-1,3-Dichloropropene	1000	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Ethylbenzene	924	12.5	25.0	ug/kg wet	50	1000	---	92	80-120%	---	---	
Hexachlorobutadiene	925	50.0	100	ug/kg wet	50	1000	---	92	80-120%	---	---	
2-Hexanone	1580	500	500	ug/kg wet	50	2000	---	79	80-120%	---	---	Q-55
Isopropylbenzene	920	25.0	50.0	ug/kg wet	50	1000	---	92	80-120%	---	---	
4-Isopropyltoluene	936	25.0	50.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
Methylene chloride	1070	250	500	ug/kg wet	50	1000	---	107	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	1720	250	500	ug/kg wet	50	2000	---	86	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	907	25.0	50.0	ug/kg wet	50	1000	---	91	80-120%	---	---	
Naphthalene	856	50.0	100	ug/kg wet	50	1000	---	86	80-120%	---	---	
n-Propylbenzene	945	12.5	25.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
Styrene	906	25.0	50.0	ug/kg wet	50	1000	---	91	80-120%	---	---	
1,1,1,2-Tetrachloroethane	1090	12.5	25.0	ug/kg wet	50	1000	---	109	80-120%	---	---	
1,1,2,2-Tetrachloroethane	870	25.0	50.0	ug/kg wet	50	1000	---	87	80-120%	---	---	
Tetrachloroethene (PCE)	984	12.5	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Toluene	940	25.0	50.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
1,2,3-Trichlorobenzene	909	125	250	ug/kg wet	50	1000	---	91	80-120%	---	---	
1,2,4-Trichlorobenzene	856	125	250	ug/kg wet	50	1000	---	86	80-120%	---	---	
1,1,1-Trichloroethane	1070	12.5	25.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
1,1,2-Trichloroethane	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Trichloroethene (TCE)	1100	12.5	25.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
Trichlorofluoromethane	932	50.0	100	ug/kg wet	50	1000	---	93	80-120%	---	---	
1,2,3-Trichloropropane	984	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
1,2,4-Trimethylbenzene	916	25.0	50.0	ug/kg wet	50	1000	---	92	80-120%	---	---	
1,3,5-Trimethylbenzene	948	25.0	50.0	ug/kg wet	50	1000	---	95	80-120%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0856 - EPA 5035A						Soil						
LCS (23F0856-BS1)						Prepared: 06/23/23 08:53 Analyzed: 06/23/23 09:40						
Vinyl chloride	1060	12.5	25.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
m,p-Xylene	1820	25.0	50.0	ug/kg wet	50	2000	---	91	80-120%	---	---	
o-Xylene	854	12.5	25.0	ug/kg wet	50	1000	---	85	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>103 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>91 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (23F0856-DUP1)						Prepared: 06/19/23 09:30 Analyzed: 06/23/23 11:26						
QC Source Sample: Non-SDG (A3F1410-01)												
Acetone	ND	784	1570	ug/kg dry	50	---	ND	---	---	---	30%	
Acrylonitrile	ND	78.4	157	ug/kg dry	50	---	ND	---	---	---	30%	
Benzene	ND	7.84	15.7	ug/kg dry	50	---	ND	---	---	---	30%	
Bromobenzene	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
Bromochloromethane	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
Bromodichloromethane	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
Bromoform	ND	78.4	157	ug/kg dry	50	---	ND	---	---	---	30%	
Bromomethane	ND	784	784	ug/kg dry	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	392	784	ug/kg dry	50	---	ND	---	---	---	30%	
n-Butylbenzene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon disulfide	ND	392	784	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroethane	ND	392	784	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroform	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
Chloromethane	ND	196	392	ug/kg dry	50	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromochloromethane	ND	78.4	157	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	196	392	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromomethane	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0856 - EPA 5035A						Soil						
Duplicate (23F0856-DUP1)			Prepared: 06/19/23 09:30 Analyzed: 06/23/23 11:26									
QC Source Sample: Non-SDG (A3F1410-01)												
1,3-Dichlorobenzene	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	78.4	157	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	78.4	157	ug/kg dry	50	---	ND	---	---	---	30%	
2-Hexanone	ND	78.4	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
Methylene chloride	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	78.4	157	ug/kg dry	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
Styrene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	

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Apex Laboratories, LLC

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0856 - EPA 5035A						Soil						
Duplicate (23F0856-DUP1)			Prepared: 06/19/23 09:30 Analyzed: 06/23/23 11:26									
QC Source Sample: Non-SDG (A3F1410-01)												
Trichloroethene (TCE)	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	78.4	157	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	39.2	78.4	ug/kg dry	50	---	ND	---	---	---	30%	
o-Xylene	ND	19.6	39.2	ug/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>94 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (23F0856-DUP2)			Prepared: 06/20/23 14:15 Analyzed: 06/23/23 18:15									
QC Source Sample: Non-SDG (A3F1425-01)												
Acetone	ND	708	1420	ug/kg dry	50	---	ND	---	---	---	30%	
Acrylonitrile	ND	70.8	142	ug/kg dry	50	---	ND	---	---	---	30%	
Benzene	ND	7.08	14.2	ug/kg dry	50	---	ND	---	---	---	30%	
Bromobenzene	ND	17.7	35.4	ug/kg dry	50	---	ND	---	---	---	30%	
Bromochloromethane	ND	35.4	70.8	ug/kg dry	50	---	ND	---	---	---	30%	
Bromodichloromethane	ND	35.4	70.8	ug/kg dry	50	---	ND	---	---	---	30%	
Bromoform	ND	70.8	142	ug/kg dry	50	---	ND	---	---	---	30%	
Bromomethane	ND	708	708	ug/kg dry	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	354	708	ug/kg dry	50	---	ND	---	---	---	30%	
n-Butylbenzene	ND	35.4	70.8	ug/kg dry	50	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	35.4	70.8	ug/kg dry	50	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	35.4	70.8	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon disulfide	ND	354	708	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	35.4	70.8	ug/kg dry	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	17.7	35.4	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroethane	ND	354	708	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroform	ND	35.4	70.8	ug/kg dry	50	---	ND	---	---	---	30%	
Chloromethane	ND	177	354	ug/kg dry	50	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	35.4	70.8	ug/kg dry	50	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0856 - EPA 5035A						Soil						
Duplicate (23F0856-DUP2)			Prepared: 06/20/23 14:15 Analyzed: 06/23/23 18:15									
QC Source Sample: Non-SDG (A3F1425-01)												
4-Chlorotoluene	ND	35.4	70.8	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromochloromethane	ND	70.8	142	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	177	354	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	35.4	70.8	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromomethane	ND	35.4	70.8	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	17.7	35.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	17.7	35.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	17.7	35.4	ug/kg dry	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	70.8	142	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	17.7	35.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	17.7	35.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	17.7	35.4	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	17.7	35.4	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	17.7	35.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	17.7	35.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	35.4	70.8	ug/kg dry	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	35.4	70.8	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	35.4	70.8	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	35.4	70.8	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	35.4	70.8	ug/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	17.7	35.4	ug/kg dry	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	70.8	142	ug/kg dry	50	---	ND	---	---	---	30%	
2-Hexanone	ND	708	708	ug/kg dry	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	35.4	70.8	ug/kg dry	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	35.4	70.8	ug/kg dry	50	---	ND	---	---	---	30%	
Methylene chloride	ND	354	708	ug/kg dry	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	354	708	ug/kg dry	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	35.4	70.8	ug/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	70.8	142	ug/kg dry	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	17.7	35.4	ug/kg dry	50	---	ND	---	---	---	30%	
Styrene	ND	35.4	70.8	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	17.7	35.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	35.4	70.8	ug/kg dry	50	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0856 - EPA 5035A												
Soil												
Duplicate (23F0856-DUP2)												
Prepared: 06/20/23 14:15 Analyzed: 06/23/23 18:15												
QC Source Sample: Non-SDG (A3F1425-01)												
Tetrachloroethene (PCE)	ND	17.7	35.4	ug/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	35.4	70.8	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	177	354	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	177	354	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	17.7	35.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	17.7	35.4	ug/kg dry	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	17.7	35.4	ug/kg dry	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	70.8	142	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	35.4	70.8	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	35.4	70.8	ug/kg dry	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	35.4	70.8	ug/kg dry	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	17.7	35.4	ug/kg dry	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	35.4	70.8	ug/kg dry	50	---	ND	---	---	---	30%	
o-Xylene	ND	17.7	35.4	ug/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>79-120 %</i>		<i>"</i>						

Matrix Spike (23F0856-MS1)												
Prepared: 06/19/23 10:20 Analyzed: 06/23/23 15:43												
QC Source Sample: Non-SDG (A3F1410-10)												
5035A/8260D												
Acetone	2200	513	1030	ug/kg dry	50	2050	ND	107	36-164%	---	---	
Acrylonitrile	1110	51.3	103	ug/kg dry	50	1030	ND	109	65-134%	---	---	
Benzene	1170	5.13	10.3	ug/kg dry	50	1030	ND	114	77-121%	---	---	
Bromobenzene	1020	12.8	25.7	ug/kg dry	50	1030	ND	100	78-121%	---	---	
Bromochloromethane	1200	25.7	51.3	ug/kg dry	50	1030	ND	117	78-125%	---	---	
Bromodichloromethane	1210	25.7	51.3	ug/kg dry	50	1030	ND	118	75-127%	---	---	
Bromoform	1060	51.3	103	ug/kg dry	50	1030	ND	104	67-132%	---	---	
Bromomethane	1310	513	513	ug/kg dry	50	1030	ND	128	53-143%	---	---	
2-Butanone (MEK)	2160	257	513	ug/kg dry	50	2050	ND	105	51-148%	---	---	
n-Butylbenzene	1070	25.7	51.3	ug/kg dry	50	1030	ND	105	70-128%	---	---	
sec-Butylbenzene	1080	25.7	51.3	ug/kg dry	50	1030	ND	105	73-126%	---	---	
tert-Butylbenzene	1020	25.7	51.3	ug/kg dry	50	1030	ND	100	73-125%	---	---	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0856 - EPA 5035A						Soil						
Matrix Spike (23F0856-MS1)						Prepared: 06/19/23 10:20 Analyzed: 06/23/23 15:43						
QC Source Sample: Non-SDG (A3F1410-10)												
Carbon disulfide	1060	257	513	ug/kg dry	50	1030	ND	104	63-132%	---	---	
Carbon tetrachloride	1310	25.7	51.3	ug/kg dry	50	1030	ND	128	70-135%	---	---	
Chlorobenzene	1090	12.8	25.7	ug/kg dry	50	1030	ND	106	79-120%	---	---	
Chloroethane	1510	257	513	ug/kg dry	50	1030	ND	147	59-139%	---	---	Q-54
Chloroform	1140	25.7	51.3	ug/kg dry	50	1030	ND	111	78-123%	---	---	
Chloromethane	1080	128	257	ug/kg dry	50	1030	ND	105	50-136%	---	---	
2-Chlorotoluene	1030	25.7	51.3	ug/kg dry	50	1030	ND	101	75-122%	---	---	
4-Chlorotoluene	1040	25.7	51.3	ug/kg dry	50	1030	ND	101	72-124%	---	---	
Dibromochloromethane	1210	51.3	103	ug/kg dry	50	1030	ND	118	74-126%	---	---	
1,2-Dibromo-3-chloropropane	939	128	257	ug/kg dry	50	1030	ND	92	61-132%	---	---	
1,2-Dibromoethane (EDB)	1050	25.7	51.3	ug/kg dry	50	1030	ND	103	78-122%	---	---	
Dibromomethane	1160	25.7	51.3	ug/kg dry	50	1030	ND	113	78-125%	---	---	
1,2-Dichlorobenzene	1050	12.8	25.7	ug/kg dry	50	1030	ND	103	78-121%	---	---	
1,3-Dichlorobenzene	1070	12.8	25.7	ug/kg dry	50	1030	ND	104	77-121%	---	---	
1,4-Dichlorobenzene	1030	12.8	25.7	ug/kg dry	50	1030	ND	101	75-120%	---	---	
Dichlorodifluoromethane	1230	51.3	103	ug/kg dry	50	1030	ND	120	29-149%	---	---	
1,1-Dichloroethane	1200	12.8	25.7	ug/kg dry	50	1030	ND	117	76-125%	---	---	
1,2-Dichloroethane (EDC)	1180	12.8	25.7	ug/kg dry	50	1030	ND	115	73-128%	---	---	
1,1-Dichloroethene	1190	12.8	25.7	ug/kg dry	50	1030	ND	116	70-131%	---	---	
cis-1,2-Dichloroethene	1160	12.8	25.7	ug/kg dry	50	1030	ND	113	77-123%	---	---	
trans-1,2-Dichloroethene	1140	12.8	25.7	ug/kg dry	50	1030	ND	112	74-125%	---	---	
1,2-Dichloropropane	1150	12.8	25.7	ug/kg dry	50	1030	ND	113	76-123%	---	---	
1,3-Dichloropropane	1100	25.7	51.3	ug/kg dry	50	1030	ND	107	77-121%	---	---	
2,2-Dichloropropane	1080	25.7	51.3	ug/kg dry	50	1030	ND	105	67-133%	---	---	
1,1-Dichloropropene	1190	25.7	51.3	ug/kg dry	50	1030	ND	116	76-125%	---	---	
cis-1,3-Dichloropropene	1070	25.7	51.3	ug/kg dry	50	1030	ND	105	74-126%	---	---	
trans-1,3-Dichloropropene	1050	25.7	51.3	ug/kg dry	50	1030	ND	103	71-130%	---	---	
Ethylbenzene	1040	12.8	25.7	ug/kg dry	50	1030	ND	101	76-122%	---	---	
Hexachlorobutadiene	1030	51.3	103	ug/kg dry	50	1030	ND	100	61-135%	---	---	
2-Hexanone	1790	513	513	ug/kg dry	50	2050	ND	87	53-145%	---	---	Q-54b
Isopropylbenzene	1030	25.7	51.3	ug/kg dry	50	1030	ND	100	68-134%	---	---	
4-Isopropyltoluene	1070	25.7	51.3	ug/kg dry	50	1030	ND	104	73-127%	---	---	
Methylene chloride	1180	257	513	ug/kg dry	50	1030	ND	115	70-128%	---	---	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0856 - EPA 5035A						Soil						
Matrix Spike (23F0856-MS1)			Prepared: 06/19/23 10:20 Analyzed: 06/23/23 15:43									
QC Source Sample: Non-SDG (A3F1410-10)												
4-Methyl-2-pentanone (MiBK)	1940	257	513	ug/kg dry	50	2050	ND	94	65-135%	---	---	
Methyl tert-butyl ether (MTBE)	998	25.7	51.3	ug/kg dry	50	1030	ND	97	73-125%	---	---	
Naphthalene	907	51.3	103	ug/kg dry	50	1030	ND	88	62-129%	---	---	
n-Propylbenzene	1060	12.8	25.7	ug/kg dry	50	1030	ND	103	73-125%	---	---	
Styrene	1020	25.7	51.3	ug/kg dry	50	1030	ND	100	76-124%	---	---	
1,1,1,2-Tetrachloroethane	1220	12.8	25.7	ug/kg dry	50	1030	ND	119	78-125%	---	---	
1,1,2,2-Tetrachloroethane	953	25.7	51.3	ug/kg dry	50	1030	ND	93	70-124%	---	---	
Tetrachloroethene (PCE)	1130	12.8	25.7	ug/kg dry	50	1030	35.4	107	73-128%	---	---	
Toluene	1040	25.7	51.3	ug/kg dry	50	1030	ND	102	77-121%	---	---	
1,2,3-Trichlorobenzene	976	128	257	ug/kg dry	50	1030	ND	95	66-130%	---	---	
1,2,4-Trichlorobenzene	919	128	257	ug/kg dry	50	1030	ND	90	67-129%	---	---	
1,1,1-Trichloroethane	1240	12.8	25.7	ug/kg dry	50	1030	ND	121	73-130%	---	---	
1,1,2-Trichloroethane	1110	12.8	25.7	ug/kg dry	50	1030	ND	109	78-121%	---	---	
Trichloroethene (TCE)	1240	12.8	25.7	ug/kg dry	50	1030	ND	121	77-123%	---	---	
Trichlorofluoromethane	3440	51.3	103	ug/kg dry	50	1030	ND	336	62-140%	---	---	Q-01
1,2,3-Trichloropropane	1060	25.7	51.3	ug/kg dry	50	1030	ND	103	73-125%	---	---	
1,2,4-Trimethylbenzene	1030	25.7	51.3	ug/kg dry	50	1030	ND	100	75-123%	---	---	
1,3,5-Trimethylbenzene	1070	25.7	51.3	ug/kg dry	50	1030	ND	104	73-124%	---	---	
Vinyl chloride	1280	12.8	25.7	ug/kg dry	50	1030	ND	125	56-135%	---	---	
m,p-Xylene	2030	25.7	51.3	ug/kg dry	50	2050	ND	99	77-124%	---	---	
o-Xylene	955	12.8	25.7	ug/kg dry	50	1030	ND	93	77-123%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>91 %</i>		<i>79-120 %</i>		<i>"</i>						

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F1083 - EPA 1311/5030C TCLP Volatiles						Water						
Blank (23F1083-BLK1)						Prepared: 06/29/23 09:00 Analyzed: 06/29/23 10:18						TCLPa
<u>1311/8260D</u>												
Benzene	ND	6.25	12.5	ug/L	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/L	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						

LCS (23F1083-BS1)						Prepared: 06/29/23 09:00 Analyzed: 06/29/23 09:33						TCLPa
<u>1311/8260D</u>												
Benzene	946	6.25	12.5	ug/L	50	1000	---	95	80-120%	---	---	
2-Butanone (MEK)	1700	250	500	ug/L	50	2000	---	85	80-120%	---	---	
Carbon tetrachloride	1020	25.0	50.0	ug/L	50	1000	---	102	80-120%	---	---	
Chlorobenzene	980	12.5	25.0	ug/L	50	1000	---	98	80-120%	---	---	
Chloroform	953	25.0	50.0	ug/L	50	1000	---	95	80-120%	---	---	
1,4-Dichlorobenzene	946	12.5	25.0	ug/L	50	1000	---	95	80-120%	---	---	
1,1-Dichloroethene	1020	12.5	25.0	ug/L	50	1000	---	102	80-120%	---	---	
1,2-Dichloroethane (EDC)	962	12.5	25.0	ug/L	50	1000	---	96	80-120%	---	---	
Tetrachloroethene (PCE)	1000	12.5	25.0	ug/L	50	1000	---	100	80-120%	---	---	
Trichloroethene (TCE)	992	12.5	25.0	ug/L	50	1000	---	99	80-120%	---	---	
Vinyl chloride	1040	12.5	25.0	ug/L	50	1000	---	104	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>80-120 %</i>		<i>"</i>						

Duplicate (23F1083-DUP1)						Prepared: 06/29/23 09:00 Analyzed: 06/29/23 11:03					
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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F1083 - EPA 1311/5030C TCLP Volatiles						Water						
Duplicate (23F1083-DUP1)			Prepared: 06/29/23 09:00 Analyzed: 06/29/23 11:03									
QC Source Sample: Non-SDG (A3F1226-01)												
Benzene	ND	6.25	12.5	ug/L	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	250	500	ug/L	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Chloroform	32.0	25.0	50.0	ug/L	50	---	32.0	---	---	0	30%	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						

Matrix Spike (23F1083-MS1)			Prepared: 06/29/23 09:00 Analyzed: 06/29/23 13:20									
QC Source Sample: Non-SDG (A3F1375-01)												
1311/8260D												
Benzene	1030	6.25	12.5	ug/L	50	1000	ND	103	79-120%	---	---	
2-Butanone (MEK)	1690	250	500	ug/L	50	2000	ND	84	56-143%	---	---	
Carbon tetrachloride	1120	25.0	50.0	ug/L	50	1000	ND	112	72-136%	---	---	
Chlorobenzene	1040	12.5	25.0	ug/L	50	1000	ND	104	80-120%	---	---	
Chloroform	1010	25.0	50.0	ug/L	50	1000	ND	101	79-124%	---	---	
1,4-Dichlorobenzene	984	12.5	25.0	ug/L	50	1000	ND	98	79-120%	---	---	
1,1-Dichloroethene	1110	12.5	25.0	ug/L	50	1000	ND	111	71-131%	---	---	
1,2-Dichloroethane (EDC)	1020	12.5	25.0	ug/L	50	1000	ND	102	73-128%	---	---	
Tetrachloroethene (PCE)	1080	12.5	25.0	ug/L	50	1000	ND	108	74-129%	---	---	
Trichloroethene (TCE)	1060	12.5	25.0	ug/L	50	1000	ND	106	79-123%	---	---	
Vinyl chloride	1170	12.5	25.0	ug/L	50	1000	ND	117	58-137%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>94 %</i>		<i>80-120 %</i>		<i>"</i>						

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F1025 - EPA 3546						Solid						
Blank (23F1025-BLK1)			Prepared: 06/28/23 05:14 Analyzed: 06/28/23 16:03									
<u>EPA 8270E</u>												
Acenaphthene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Chrysene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Fluoranthene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Fluorene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
Naphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
Phenanthrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Pyrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Carbazole	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Dibenzofuran	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
2-Chlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
2-Methylphenol	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Nitrophenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
4-Nitrophenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Phenol	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F1025 - EPA 3546						Solid						
Blank (23F1025-BLK1)			Prepared: 06/28/23 05:14 Analyzed: 06/28/23 16:03									
2,3,5,6-Tetrachlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	20.0	40.0	ug/kg wet	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Diethylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Dimethylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2,2'-Oxybis(1-Chloropropane)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Hexachloroethane	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Aniline	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
4-Chloroaniline	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
3-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
4-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
Nitrobenzene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Benzoic acid	ND	167	333	ug/kg wet	1	---	---	---	---	---	---	
Benzyl alcohol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Isophorone	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F1025 - EPA 3546						Solid						
Blank (23F1025-BLK1)			Prepared: 06/28/23 05:14 Analyzed: 06/28/23 16:03									
Azobenzene (1,2-DPH)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Ethylhexyl) adipate	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	Q-52
1,2-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
Pyridine	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 82 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 1x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>85 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>77 %</i>		<i>33-122 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>87 %</i>		<i>54-127 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>78 %</i>		<i>35-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>71 %</i>		<i>39-132 %</i>		<i>"</i>						

LCS (23F1025-BS1)			Prepared: 06/28/23 05:14 Analyzed: 06/28/23 16:37									
EPA 8270E												
Acenaphthene	505	5.32	10.7	ug/kg wet	4	533	---	95	40-123%	---	---	
Acenaphthylene	500	5.32	10.7	ug/kg wet	4	533	---	94	32-132%	---	---	
Anthracene	520	5.32	10.7	ug/kg wet	4	533	---	98	47-123%	---	---	
Benz(a)anthracene	488	5.32	10.7	ug/kg wet	4	533	---	91	49-126%	---	---	
Benzo(a)pyrene	499	8.00	16.0	ug/kg wet	4	533	---	94	45-129%	---	---	
Benzo(b)fluoranthene	508	8.00	16.0	ug/kg wet	4	533	---	95	45-132%	---	---	
Benzo(k)fluoranthene	557	8.00	16.0	ug/kg wet	4	533	---	105	47-132%	---	---	
Benzo(g,h,i)perylene	531	5.32	10.7	ug/kg wet	4	533	---	100	43-134%	---	---	
Chrysene	487	5.32	10.7	ug/kg wet	4	533	---	91	50-124%	---	---	
Dibenz(a,h)anthracene	489	5.32	10.7	ug/kg wet	4	533	---	92	45-134%	---	---	
Fluoranthene	530	5.32	10.7	ug/kg wet	4	533	---	99	50-127%	---	---	
Fluorene	502	5.32	10.7	ug/kg wet	4	533	---	94	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	462	5.32	10.7	ug/kg wet	4	533	---	87	45-133%	---	---	
1-Methylnaphthalene	484	10.7	21.3	ug/kg wet	4	533	---	91	40-120%	---	---	
2-Methylnaphthalene	508	10.7	21.3	ug/kg wet	4	533	---	95	38-122%	---	---	

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ANALYTICAL REPORT

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6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F1025 - EPA 3546						Solid						
LCS (23F1025-BS1)			Prepared: 06/28/23 05:14 Analyzed: 06/28/23 16:37									
Naphthalene	480	10.7	21.3	ug/kg wet	4	533	---	90	35-123%	---	---	
Phenanthrene	489	5.32	10.7	ug/kg wet	4	533	---	92	50-121%	---	---	
Pyrene	535	5.32	10.7	ug/kg wet	4	533	---	100	47-127%	---	---	
Carbazole	473	8.00	16.0	ug/kg wet	4	533	---	89	50-123%	---	---	
Dibenzofuran	528	5.32	10.7	ug/kg wet	4	533	---	99	44-120%	---	---	
2-Chlorophenol	474	26.7	53.2	ug/kg wet	4	533	---	89	34-121%	---	---	
4-Chloro-3-methylphenol	484	53.2	107	ug/kg wet	4	533	---	91	45-122%	---	---	
2,4-Dichlorophenol	509	26.7	53.2	ug/kg wet	4	533	---	95	40-122%	---	---	
2,4-Dimethylphenol	594	26.7	53.2	ug/kg wet	4	533	---	111	30-127%	---	---	
2,4-Dinitrophenol	440	133	267	ug/kg wet	4	533	---	82	10-137%	---	---	
4,6-Dinitro-2-methylphenol	528	133	267	ug/kg wet	4	533	---	99	29-132%	---	---	
2-Methylphenol	491	13.3	26.7	ug/kg wet	4	533	---	92	32-122%	---	---	
3+4-Methylphenol(s)	499	13.3	26.7	ug/kg wet	4	533	---	94	34-120%	---	---	
2-Nitrophenol	490	53.2	107	ug/kg wet	4	533	---	92	36-123%	---	---	
4-Nitrophenol	493	53.2	107	ug/kg wet	4	533	---	92	30-132%	---	---	
Pentachlorophenol (PCP)	441	53.2	107	ug/kg wet	4	533	---	83	25-133%	---	---	
Phenol	474	10.7	21.3	ug/kg wet	4	533	---	89	34-121%	---	---	
2,3,4,6-Tetrachlorophenol	499	26.7	53.2	ug/kg wet	4	533	---	94	44-125%	---	---	
2,3,5,6-Tetrachlorophenol	499	26.7	53.2	ug/kg wet	4	533	---	94	40-120%	---	---	
2,4,5-Trichlorophenol	526	26.7	53.2	ug/kg wet	4	533	---	99	41-124%	---	---	
2,4,6-Trichlorophenol	480	26.7	53.2	ug/kg wet	4	533	---	90	39-126%	---	---	
Bis(2-ethylhexyl)phthalate	465	80.0	160	ug/kg wet	4	533	---	87	51-133%	---	---	
Butyl benzyl phthalate	477	53.2	107	ug/kg wet	4	533	---	89	48-132%	---	---	
Diethylphthalate	534	53.2	107	ug/kg wet	4	533	---	100	50-124%	---	---	
Dimethylphthalate	511	53.2	107	ug/kg wet	4	533	---	96	48-124%	---	---	
Di-n-butylphthalate	538	53.2	107	ug/kg wet	4	533	---	101	51-128%	---	---	
Di-n-octyl phthalate	454	53.2	107	ug/kg wet	4	533	---	85	45-140%	---	---	
N-Nitrosodimethylamine	408	13.3	26.7	ug/kg wet	4	533	---	77	23-120%	---	---	
N-Nitroso-di-n-propylamine	466	13.3	26.7	ug/kg wet	4	533	---	87	36-120%	---	---	
N-Nitrosodiphenylamine	483	13.3	26.7	ug/kg wet	4	533	---	90	38-127%	---	---	
Bis(2-Chloroethoxy) methane	500	13.3	26.7	ug/kg wet	4	533	---	94	36-121%	---	---	
Bis(2-Chloroethyl) ether	422	13.3	26.7	ug/kg wet	4	533	---	79	31-120%	---	---	
2,2'-Oxybis(1-Chloropropane)	456	13.3	26.7	ug/kg wet	4	533	---	85	39-120%	---	---	
Hexachlorobenzene	477	5.32	10.7	ug/kg wet	4	533	---	89	45-122%	---	---	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F1025 - EPA 3546						Solid						
LCS (23F1025-BS1)			Prepared: 06/28/23 05:14 Analyzed: 06/28/23 16:37									
Hexachlorobutadiene	478	13.3	26.7	ug/kg wet	4	533	---	90	32-123%	---	---	
Hexachlorocyclopentadiene	490	26.7	53.2	ug/kg wet	4	533	---	92	10-140%	---	---	
Hexachloroethane	475	13.3	26.7	ug/kg wet	4	533	---	89	28-120%	---	---	
2-Chloronaphthalene	546	5.32	10.7	ug/kg wet	4	533	---	102	41-120%	---	---	
1,2,4-Trichlorobenzene	476	13.3	26.7	ug/kg wet	4	533	---	89	34-120%	---	---	
4-Bromophenyl phenyl ether	513	13.3	26.7	ug/kg wet	4	533	---	96	46-124%	---	---	
4-Chlorophenyl phenyl ether	514	13.3	26.7	ug/kg wet	4	533	---	96	45-121%	---	---	
Aniline	365	26.7	53.2	ug/kg wet	4	533	---	69	10-120%	---	---	
4-Chloroaniline	359	13.3	26.7	ug/kg wet	4	533	---	67	17-120%	---	---	
2-Nitroaniline	516	107	213	ug/kg wet	4	533	---	97	44-127%	---	---	
3-Nitroaniline	412	107	213	ug/kg wet	4	533	---	77	33-120%	---	---	
4-Nitroaniline	494	107	213	ug/kg wet	4	533	---	93	51-125%	---	---	
Nitrobenzene	457	53.2	107	ug/kg wet	4	533	---	86	34-122%	---	---	
2,4-Dinitrotoluene	540	53.2	107	ug/kg wet	4	533	---	101	48-126%	---	---	
2,6-Dinitrotoluene	503	53.2	107	ug/kg wet	4	533	---	94	46-124%	---	---	
Benzoic acid	729	668	668	ug/kg wet	4	1070	---	68	10-140%	---	---	
Benzyl alcohol	455	26.7	53.2	ug/kg wet	4	533	---	85	29-122%	---	---	
Isophorone	479	13.3	26.7	ug/kg wet	4	533	---	90	30-122%	---	---	
Azobenzene (1,2-DPH)	519	13.3	26.7	ug/kg wet	4	533	---	97	39-125%	---	---	
Bis(2-Ethylhexyl) adipate	482	133	267	ug/kg wet	4	533	---	90	61-121%	---	---	
3,3'-Dichlorobenzidine	1660	107	213	ug/kg wet	4	1070	---	156	22-121%	---	---	Q-29, Q-31, Q-52
1,2-Dinitrobenzene	526	133	267	ug/kg wet	4	533	---	99	44-120%	---	---	
1,3-Dinitrobenzene	498	133	267	ug/kg wet	4	533	---	93	43-127%	---	---	
1,4-Dinitrobenzene	524	133	267	ug/kg wet	4	533	---	98	37-132%	---	---	
Pyridine	407	26.7	53.2	ug/kg wet	4	533	---	76	10-120%	---	---	
1,2-Dichlorobenzene	468	13.3	26.7	ug/kg wet	4	533	---	88	33-120%	---	---	
1,3-Dichlorobenzene	465	13.3	26.7	ug/kg wet	4	533	---	87	30-120%	---	---	
1,4-Dichlorobenzene	463	13.3	26.7	ug/kg wet	4	533	---	87	31-120%	---	---	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 83 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 4x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>103 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>93 %</i>		<i>33-122 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>100 %</i>		<i>54-127 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>83 %</i>		<i>35-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>91 %</i>		<i>39-132 %</i>		<i>"</i>						

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F1025 - EPA 3546							Solid					
Duplicate (23F1025-DUP1)			Prepared: 06/28/23 05:14 Analyzed: 06/28/23 19:27						R-04			
QC Source Sample: Non-SDG (A3F1226-01RE1)												
Acenaphthene	ND	24.0	48.3	ug/kg dry	10	---	ND	---	---	---	30%	
Acenaphthylene	ND	24.0	48.3	ug/kg dry	10	---	ND	---	---	---	30%	
Anthracene	ND	24.0	48.3	ug/kg dry	10	---	ND	---	---	---	30%	
Benz(a)anthracene	ND	24.0	48.3	ug/kg dry	10	---	ND	---	---	---	30%	
Benzo(a)pyrene	ND	36.2	72.3	ug/kg dry	10	---	ND	---	---	---	30%	
Benzo(b)fluoranthene	ND	36.2	72.3	ug/kg dry	10	---	ND	---	---	---	30%	
Benzo(k)fluoranthene	ND	36.2	72.3	ug/kg dry	10	---	ND	---	---	---	30%	
Benzo(g,h,i)perylene	ND	24.0	48.3	ug/kg dry	10	---	ND	---	---	---	30%	
Chrysene	ND	24.0	48.3	ug/kg dry	10	---	ND	---	---	---	30%	
Dibenz(a,h)anthracene	ND	24.0	48.3	ug/kg dry	10	---	ND	---	---	---	30%	
Fluoranthene	ND	24.0	48.3	ug/kg dry	10	---	ND	---	---	---	30%	
Fluorene	ND	24.0	48.3	ug/kg dry	10	---	ND	---	---	---	30%	
Indeno(1,2,3-cd)pyrene	ND	24.0	48.3	ug/kg dry	10	---	ND	---	---	---	30%	
1-Methylnaphthalene	ND	48.3	96.4	ug/kg dry	10	---	ND	---	---	---	30%	
2-Methylnaphthalene	ND	48.3	96.4	ug/kg dry	10	---	ND	---	---	---	30%	
Naphthalene	ND	48.3	96.4	ug/kg dry	10	---	ND	---	---	---	30%	
Phenanthrene	ND	24.0	48.3	ug/kg dry	10	---	ND	---	---	---	30%	
Pyrene	ND	24.0	48.3	ug/kg dry	10	---	ND	---	---	---	30%	
Carbazole	ND	36.2	72.3	ug/kg dry	10	---	ND	---	---	---	30%	
Dibenzofuran	ND	24.0	48.3	ug/kg dry	10	---	ND	---	---	---	30%	
2-Chlorophenol	ND	121	240	ug/kg dry	10	---	ND	---	---	---	30%	
4-Chloro-3-methylphenol	ND	240	483	ug/kg dry	10	---	ND	---	---	---	30%	
2,4-Dichlorophenol	ND	121	240	ug/kg dry	10	---	ND	---	---	---	30%	
2,4-Dimethylphenol	ND	121	240	ug/kg dry	10	---	ND	---	---	---	30%	
2,4-Dinitrophenol	ND	602	1210	ug/kg dry	10	---	ND	---	---	---	30%	
4,6-Dinitro-2-methylphenol	ND	602	1210	ug/kg dry	10	---	ND	---	---	---	30%	
2-Methylphenol	ND	60.2	121	ug/kg dry	10	---	ND	---	---	---	30%	
3+4-Methylphenol(s)	ND	60.2	121	ug/kg dry	10	---	ND	---	---	---	30%	
2-Nitrophenol	ND	240	483	ug/kg dry	10	---	ND	---	---	---	30%	
4-Nitrophenol	ND	240	483	ug/kg dry	10	---	ND	---	---	---	30%	
Pentachlorophenol (PCP)	ND	240	483	ug/kg dry	10	---	ND	---	---	---	30%	
Phenol	ND	48.3	96.4	ug/kg dry	10	---	ND	---	---	---	30%	

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Darwin Thomas, Business Development Director



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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F1025 - EPA 3546						Solid						
Duplicate (23F1025-DUP1)						Prepared: 06/28/23 05:14 Analyzed: 06/28/23 19:27						R-04
QC Source Sample: Non-SDG (A3F1226-01RE1)												
2,3,4,6-Tetrachlorophenol	ND	121	240	ug/kg dry	10	---	ND	---	---	---	30%	
2,3,5,6-Tetrachlorophenol	ND	121	240	ug/kg dry	10	---	ND	---	---	---	30%	
2,4,5-Trichlorophenol	ND	121	240	ug/kg dry	10	---	ND	---	---	---	30%	
2,4,6-Trichlorophenol	ND	121	240	ug/kg dry	10	---	ND	---	---	---	30%	
Bis(2-ethylhexyl)phthalate	ND	362	723	ug/kg dry	10	---	ND	---	---	---	30%	
Butyl benzyl phthalate	ND	240	483	ug/kg dry	10	---	ND	---	---	---	30%	
Diethylphthalate	ND	240	483	ug/kg dry	10	---	ND	---	---	---	30%	
Dimethylphthalate	ND	240	483	ug/kg dry	10	---	ND	---	---	---	30%	
Di-n-butylphthalate	ND	240	483	ug/kg dry	10	---	ND	---	---	---	30%	
Di-n-octyl phthalate	ND	240	483	ug/kg dry	10	---	ND	---	---	---	30%	
N-Nitrosodimethylamine	ND	60.2	121	ug/kg dry	10	---	ND	---	---	---	30%	
N-Nitroso-di-n-propylamine	ND	60.2	121	ug/kg dry	10	---	ND	---	---	---	30%	
N-Nitrosodiphenylamine	ND	60.2	121	ug/kg dry	10	---	ND	---	---	---	30%	
Bis(2-Chloroethoxy) methane	ND	60.2	121	ug/kg dry	10	---	ND	---	---	---	30%	
Bis(2-Chloroethyl) ether	ND	60.2	121	ug/kg dry	10	---	ND	---	---	---	30%	
2,2'-Oxybis(1-Chloropropane)	ND	60.2	121	ug/kg dry	10	---	ND	---	---	---	30%	
Hexachlorobenzene	ND	24.0	48.3	ug/kg dry	10	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	60.2	121	ug/kg dry	10	---	ND	---	---	---	30%	
Hexachlorocyclopentadiene	ND	121	240	ug/kg dry	10	---	ND	---	---	---	30%	
Hexachloroethane	ND	60.2	121	ug/kg dry	10	---	ND	---	---	---	30%	
2-Chloronaphthalene	ND	24.0	48.3	ug/kg dry	10	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	60.2	121	ug/kg dry	10	---	ND	---	---	---	30%	
4-Bromophenyl phenyl ether	ND	60.2	121	ug/kg dry	10	---	ND	---	---	---	30%	
4-Chlorophenyl phenyl ether	ND	60.2	121	ug/kg dry	10	---	ND	---	---	---	30%	
Aniline	ND	121	240	ug/kg dry	10	---	ND	---	---	---	30%	
4-Chloroaniline	ND	222	222	ug/kg dry	10	---	ND	---	---	---	30%	R-02
2-Nitroaniline	ND	483	964	ug/kg dry	10	---	ND	---	---	---	30%	
3-Nitroaniline	ND	483	964	ug/kg dry	10	---	ND	---	---	---	30%	
4-Nitroaniline	ND	483	964	ug/kg dry	10	---	ND	---	---	---	30%	
Nitrobenzene	ND	240	483	ug/kg dry	10	---	ND	---	---	---	30%	
2,4-Dinitrotoluene	ND	240	483	ug/kg dry	10	---	ND	---	---	---	30%	
2,6-Dinitrotoluene	ND	240	483	ug/kg dry	10	---	ND	---	---	---	30%	
Benzoic acid	ND	3020	6020	ug/kg dry	10	---	ND	---	---	---	30%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23F1025 - EPA 3546						Solid							
Duplicate (23F1025-DUP1)						Prepared: 06/28/23 05:14 Analyzed: 06/28/23 19:27						R-04	
QC Source Sample: Non-SDG (A3F1226-01RE1)													
Benzyl alcohol	ND	121	240	ug/kg dry	10	---	ND	---	---	---	30%		
Isophorone	ND	60.2	121	ug/kg dry	10	---	ND	---	---	---	30%		
Azobenzene (1,2-DPH)	ND	60.2	121	ug/kg dry	10	---	ND	---	---	---	30%		
Bis(2-Ethylhexyl) adipate	ND	602	1210	ug/kg dry	10	---	ND	---	---	---	30%		
3,3'-Dichlorobenzidine	ND	483	964	ug/kg dry	10	---	ND	---	---	---	30%	Q-52	
1,2-Dinitrobenzene	ND	602	1210	ug/kg dry	10	---	ND	---	---	---	30%		
1,3-Dinitrobenzene	ND	602	1210	ug/kg dry	10	---	ND	---	---	---	30%		
1,4-Dinitrobenzene	ND	602	1210	ug/kg dry	10	---	ND	---	---	---	30%		
Pyridine	ND	121	240	ug/kg dry	10	---	ND	---	---	---	30%		
1,2-Dichlorobenzene	ND	60.2	121	ug/kg dry	10	---	ND	---	---	---	30%		
1,3-Dichlorobenzene	ND	60.2	121	ug/kg dry	10	---	ND	---	---	---	30%		
1,4-Dichlorobenzene	ND	60.2	121	ug/kg dry	10	---	ND	---	---	---	30%		
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 16 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 10x</i>							<i>S-03</i>
<i>2-Fluorobiphenyl (Surr)</i>		<i>16 %</i>		<i>44-120 %</i>		<i>"</i>							<i>S-03</i>
<i>Phenol-d6 (Surr)</i>		<i>3 %</i>		<i>33-122 %</i>		<i>"</i>							<i>S-03</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>29 %</i>		<i>54-127 %</i>		<i>"</i>							<i>S-03</i>
<i>2-Fluorophenol (Surr)</i>		<i>6 %</i>		<i>35-120 %</i>		<i>"</i>							<i>S-03</i>
<i>2,4,6-Tribromophenol (Surr)</i>		<i>24 %</i>		<i>39-132 %</i>		<i>"</i>							<i>S-03</i>

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F1041 - EPA 3051A						Solid						
Blank (23F1041-BLK1)			Prepared: 06/28/23 09:18 Analyzed: 06/28/23 15:57									
<u>EPA 6020B</u>												
Arsenic	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Barium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	100	200	ug/kg wet	10	---	---	---	---	---	---	
Chromium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Lead	176	100	200	ug/kg wet	10	---	---	---	---	---	---	J, B-02
Mercury	ND	40.0	80.0	ug/kg wet	10	---	---	---	---	---	---	
Selenium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Silver	ND	100	200	ug/kg wet	10	---	---	---	---	---	---	
<hr/>												
LCS (23F1041-BS1)			Prepared: 06/28/23 09:18 Analyzed: 06/28/23 16:02									
<u>EPA 6020B</u>												
Arsenic	44000	500	1000	ug/kg wet	10	50000	---	88	80-120%	---	---	
Barium	46300	500	1000	ug/kg wet	10	50000	---	93	80-120%	---	---	
Cadmium	42800	100	200	ug/kg wet	10	50000	---	86	80-120%	---	---	
Chromium	43100	500	1000	ug/kg wet	10	50000	---	86	80-120%	---	---	
Lead	47300	100	200	ug/kg wet	10	50000	---	95	80-120%	---	---	B-02
Mercury	917	40.0	80.0	ug/kg wet	10	1000	---	92	80-120%	---	---	
Selenium	21800	500	1000	ug/kg wet	10	25000	---	87	80-120%	---	---	
Silver	21600	100	200	ug/kg wet	10	25000	---	86	80-120%	---	---	
<hr/>												
Duplicate (23F1041-DUP1)			Prepared: 06/28/23 09:18 Analyzed: 06/28/23 16:12									
<u>QC Source Sample: FC-062023-2131 (A3F1367-01)</u>												
<u>EPA 6020B</u>												
Arsenic	8590	2170	4340	ug/kg dry	10	---	9130	---	---	6	20%	CONT
Barium	224000	2170	4340	ug/kg dry	10	---	218000	---	---	2	20%	CONT
Cadmium	ND	434	869	ug/kg dry	10	---	ND	---	---	---	20%	CONT
Chromium	ND	2170	4340	ug/kg dry	10	---	ND	---	---	---	20%	CONT
Lead	ND	434	869	ug/kg dry	10	---	ND	---	---	---	20%	CONT
Mercury	ND	174	347	ug/kg dry	10	---	ND	---	---	---	20%	CONT
Selenium	ND	2170	4340	ug/kg dry	10	---	ND	---	---	---	20%	CONT
Silver	ND	434	869	ug/kg dry	10	---	ND	---	---	---	20%	CONT
<hr/>												
Matrix Spike (23F1041-MS1)			Prepared: 06/28/23 09:18 Analyzed: 06/28/23 16:28									

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F1041 - EPA 3051A						Solid						
Matrix Spike (23F1041-MS1)						Prepared: 06/28/23 09:18 Analyzed: 06/28/23 16:28						
QC Source Sample: FC-062023-2131 (A3F1367-01)												
EPA 6020B												
Arsenic	219000	2070	4150	ug/kg dry	10	207000	9130	101	75-125%	---	---	CONT
Barium	432000	2070	4150	ug/kg dry	10	207000	218000	103	75-125%	---	---	CONT
Cadmium	205000	415	829	ug/kg dry	10	207000	ND	99	75-125%	---	---	CONT
Chromium	206000	2070	4150	ug/kg dry	10	207000	ND	99	75-125%	---	---	CONT
Lead	234000	415	829	ug/kg dry	10	207000	ND	113	75-125%	---	---	CONT,B-02
Mercury	4700	166	332	ug/kg dry	10	4150	ND	113	75-125%	---	---	CONT
Selenium	102000	2070	4150	ug/kg dry	10	104000	ND	98	75-125%	---	---	CONT
Silver	109000	415	829	ug/kg dry	10	104000	ND	105	75-125%	---	---	CONT

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QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0883 - EPA 1311/3015A						Solid						
Blank (23F0883-BLK1)			Prepared: 06/23/23 12:17 Analyzed: 06/23/23 22:19									
<u>1311/6020B</u>												
Arsenic	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLP
Barium	ND	2500	5000	ug/L	10	---	---	---	---	---	---	TCLP
Cadmium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLP
Chromium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLP
Lead	ND	25.0	50.0	ug/L	10	---	---	---	---	---	---	TCLP
Mercury	ND	3.75	7.00	ug/L	10	---	---	---	---	---	---	TCLP
Selenium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLP
Silver	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLP
<hr/>												
LCS (23F0883-BS1)			Prepared: 06/23/23 12:17 Analyzed: 06/23/23 22:34									
<u>1311/6020B</u>												
Arsenic	5030	50.0	100	ug/L	10	5000	---	101	80-120%	---	---	TCLP
Barium	10400	2500	5000	ug/L	10	10000	---	104	80-120%	---	---	TCLP
Cadmium	1010	50.0	100	ug/L	10	1000	---	101	80-120%	---	---	TCLP
Chromium	5060	50.0	100	ug/L	10	5000	---	101	80-120%	---	---	TCLP
Lead	5390	25.0	50.0	ug/L	10	5000	---	108	80-120%	---	---	TCLP
Mercury	99.6	3.75	7.00	ug/L	10	100	---	100	80-120%	---	---	TCLP
Selenium	1020	50.0	100	ug/L	10	1000	---	102	80-120%	---	---	TCLP
Silver	935	50.0	100	ug/L	10	1000	---	93	80-120%	---	---	TCLP
<hr/>												
Duplicate (23F0883-DUP1)			Prepared: 06/23/23 12:17 Analyzed: 06/23/23 22:45									
<u>QC Source Sample: Non-SDG (A3F1360-01)</u>												
Arsenic	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	
Barium	ND	2500	5000	ug/L	10	---	ND	---	---	---	20%	
Cadmium	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	
Chromium	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	
Lead	ND	25.0	50.0	ug/L	10	---	ND	---	---	---	20%	
Mercury	ND	3.75	7.00	ug/L	10	---	ND	---	---	---	20%	
Selenium	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	
Silver	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	
<hr/>												
Matrix Spike (23F0883-MS1)			Prepared: 06/23/23 12:17 Analyzed: 06/23/23 22:55									

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QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
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Batch 23F0883 - EPA 1311/3015A **Solid**

Matrix Spike (23F0883-MS1) Prepared: 06/23/23 12:17 Analyzed: 06/23/23 22:55

QC Source Sample: Non-SDG (A3F1360-02)

1311/6020B

Arsenic	5070	50.0	100	ug/L	10	5000	ND	101	50-150%	---	---	
Barium	12000	2500	5000	ug/L	10	10000	ND	120	50-150%	---	---	
Cadmium	1020	50.0	100	ug/L	10	1000	ND	102	50-150%	---	---	
Chromium	5070	50.0	100	ug/L	10	5000	ND	101	50-150%	---	---	
Lead	5300	25.0	50.0	ug/L	10	5000	ND	106	50-150%	---	---	
Mercury	99.2	3.75	7.00	ug/L	10	100	ND	99	50-150%	---	---	
Selenium	1030	50.0	100	ug/L	10	1000	ND	103	50-150%	---	---	
Silver	922	50.0	100	ug/L	10	1000	ND	92	50-150%	---	---	

Matrix Spike (23F0883-MS2) Prepared: 06/23/23 12:17 Analyzed: 06/23/23 23:05

QC Source Sample: FC-062023-2131 (A3F1367-01)

1311/6020B

Arsenic	5020	50.0	100	ug/L	10	5000	ND	100	50-150%	---	---	CONT
Barium	10700	2500	5000	ug/L	10	10000	ND	107	50-150%	---	---	CONT
Cadmium	1000	50.0	100	ug/L	10	1000	ND	100	50-150%	---	---	CONT
Chromium	5070	50.0	100	ug/L	10	5000	ND	101	50-150%	---	---	CONT
Lead	5640	25.0	50.0	ug/L	10	5000	ND	113	50-150%	---	---	CONT
Mercury	106	3.75	7.00	ug/L	10	100	ND	106	50-150%	---	---	CONT
Selenium	998	50.0	100	ug/L	10	1000	ND	100	50-150%	---	---	CONT
Silver	1060	50.0	100	ug/L	10	1000	ND	106	50-150%	---	---	CONT

Matrix Spike (23F0883-MS3) Prepared: 06/23/23 12:17 Analyzed: 06/23/23 23:16

QC Source Sample: Non-SDG (A3F1368-01)

1311/6020B

Arsenic	4980	50.0	100	ug/L	10	5000	ND	100	50-150%	---	---	
Barium	10800	2500	5000	ug/L	10	10000	ND	108	50-150%	---	---	
Cadmium	1000	50.0	100	ug/L	10	1000	ND	100	50-150%	---	---	
Chromium	5010	50.0	100	ug/L	10	5000	ND	100	50-150%	---	---	
Lead	5570	25.0	50.0	ug/L	10	5000	ND	111	50-150%	---	---	
Mercury	105	3.75	7.00	ug/L	10	100	ND	105	50-150%	---	---	
Selenium	1000	50.0	100	ug/L	10	1000	ND	100	50-150%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0883 - EPA 1311/3015A						Solid						
Matrix Spike (23F0883-MS3)						Prepared: 06/23/23 12:17 Analyzed: 06/23/23 23:16						
QC Source Sample: Non-SDG (A3F1368-01)												
Silver	1050	50.0	100	ug/L	10	1000	ND	105	50-150%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0801 - ASTM D7511-12mod (S)						Soil						
Blank (23F0801-BLK1)						Prepared: 06/22/23 08:11 Analyzed: 06/22/23 18:03						
<u>D7511-12</u>												
Total Cyanide	ND	50.0	100	ug/kg wet	1	---	---	---	---	---	---	
LCS (23F0801-BS1)						Prepared: 06/22/23 08:11 Analyzed: 06/22/23 18:05						
<u>D7511-12</u>												
Total Cyanide	369	50.0	100	ug/kg wet	1	400	---	92	84-116%	---	---	
Matrix Spike (23F0801-MS2)						Prepared: 06/22/23 08:11 Analyzed: 06/22/23 18:47						
<u>QC Source Sample: Non-SDG (A3F1369-07)</u>												
<u>D7511-12</u>												
Total Cyanide	230	52.3	105	ug/kg dry	1	418	ND	55	64-136%	---	---	Q-02
Matrix Spike (23F0801-MS3)						Prepared: 06/22/23 08:11 Analyzed: 06/22/23 19:51						
<u>QC Source Sample: FC-062023-2131 (A3F1367-01RE1)</u>												
<u>D7511-12</u>												
Total Cyanide	4990	398	796	ug/kg dry	2	1590	4100	56	64-136%	---	---	Q-01, Q-16
Matrix Spike Dup (23F0801-MSD2)						Prepared: 06/22/23 08:11 Analyzed: 06/22/23 18:49						
<u>QC Source Sample: Non-SDG (A3F1369-07)</u>												
<u>D7511-12</u>												
Total Cyanide	247	53.6	107	ug/kg dry	1	429	ND	58	64-136%	7	47%	Q-02
Matrix Spike Dup (23F0801-MSD3)						Prepared: 06/22/23 08:11 Analyzed: 06/22/23 19:53						
<u>QC Source Sample: FC-062023-2131 (A3F1367-01RE1)</u>												
<u>D7511-12</u>												
Total Cyanide	6220	402	804	ug/kg dry	2	1610	4100	132	64-136%	22	47%	Q-16

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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0817 - Total Solids (Dry Weight) - 2022												
Soil												
Duplicate (23F0817-DUP1)			Prepared: 06/22/23 09:40 Analyzed: 06/23/23 06:08									
<u>QC Source Sample: Non-SDG (A3F1361-01)</u>												
% Solids	87.8	---	1.00	%	1	---	87.5	---	---	0.3	10%	
Duplicate (23F0817-DUP2)			Prepared: 06/22/23 09:40 Analyzed: 06/23/23 06:08									
<u>QC Source Sample: Non-SDG (A3F1361-02)</u>												
% Solids	90.3	---	1.00	%	1	---	90.3	---	---	0.02	10%	
Duplicate (23F0817-DUP3)			Prepared: 06/22/23 09:40 Analyzed: 06/23/23 06:08									
<u>QC Source Sample: Non-SDG (A3F1361-03)</u>												
% Solids	86.4	---	1.00	%	1	---	86.3	---	---	0.1	10%	
Duplicate (23F0817-DUP4)			Prepared: 06/22/23 09:40 Analyzed: 06/23/23 06:08									
<u>QC Source Sample: Non-SDG (A3F1366-01)</u>												
% Solids	94.9	---	1.00	%	1	---	95.1	---	---	0.2	10%	
Duplicate (23F0817-DUP5)			Prepared: 06/22/23 09:40 Analyzed: 06/23/23 06:08									
<u>QC Source Sample: FC-062023-2131 (A3F1367-01)</u>												
<u>EPA 8000D</u>												
% Solids	23.4	---	1.00	%	1	---	24.7	---	---	5	10%	
Duplicate (23F0817-DUP6)			Prepared: 06/22/23 18:09 Analyzed: 06/23/23 06:08									
<u>QC Source Sample: Non-SDG (A3F1437-04)</u>												
% Solids	91.4	---	1.00	%	1	---	91.1	---	---	0.3	10%	
Duplicate (23F0817-DUP7)			Prepared: 06/22/23 18:55 Analyzed: 06/23/23 06:08									
<u>QC Source Sample: Non-SDG (A3F1448-07)</u>												
% Solids	77.9	---	1.00	%	1	---	78.0	---	---	0.1	10%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23F1026</u>							
A3F1367-01	Solid	NWTPH-Dx	06/20/23 03:00	06/28/23 05:15	10.07g/5mL	10g/5mL	0.99

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23F0856</u>							
A3F1367-01RE1	Solid	NWTPH-Gx (MS)	06/20/23 03:00	06/21/23 13:55	5.25g/5mL	5g/5mL	0.95

Volatile Organic Compounds by EPA 8260D

Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23F0856</u>							
A3F1367-01RE1	Solid	5035A/8260D	06/20/23 03:00	06/21/23 13:55	5.25g/5mL	5g/5mL	0.95

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Prep: EPA 1311/5030C TCLP Volatiles					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23F1083</u>							
A3F1367-01	Solid	1311/8260D	06/20/23 03:00	06/29/23 09:00	5mL/5mL	5mL/5mL	1.00

Semivolatile Organic Compounds by EPA 8270E

Prep: EPA 3546					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23F1025</u>							
A3F1367-01	Solid	EPA 8270E	06/20/23 03:00	06/28/23 05:14	15.03g/2mL	15g/2mL	1.00

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3051A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23F1041</u>							
A3F1367-01	Solid	EPA 6020B	06/20/23 03:00	06/28/23 09:18	0.47g/50mL	0.5g/50mL	1.06

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
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SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3051A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor

TCLP Metals by EPA 6020B (ICPMS)

Prep: EPA 1311/3015A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23F0883</u>							
A3F1367-01	Solid	1311/6020B	06/20/23 03:00	06/23/23 12:17	10mL/50mL	10mL/50mL	1.00

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Prep: ASTM D7511-12mod (S)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23F0801</u>							
A3F1367-01RE1	Solid	D7511-12	06/20/23 03:00	06/22/23 08:11	2.5058g/50mL	2.5g/50mL	1.00

Percent Dry Weight

Prep: Total Solids (Dry Weight) - 2022					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23F0817</u>							
A3F1367-01	Solid	EPA 8000D	06/20/23 03:00	06/22/23 09:40			NA

TCLP Extraction by EPA 1311

Prep: EPA 1311 (TCLP)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23F0831</u>							
A3F1367-01	Solid	EPA 1311	06/20/23 03:00	06/22/23 16:35	100g/2000.2g	100g/2000g	NA

Prep: EPA 1311 TCLP/ZHE					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23F1065</u>							
A3F1367-01	Solid	EPA 1311 ZHE	06/20/23 03:00	06/28/23 14:35	25.1g/500g	25g/500g	NA

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc.
2749 Lockport Road
Niagara Falls, NY 14305

Project: **Gasco -- Filtercake**
Project Number: **111323**
Project Manager: **Chip Byrd**

Report ID:
A3F1367 - 07 25 23 1421

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- B-02** Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
- CONT** The Sample Container provided for this analysis was not provided by Apex Laboratories, and has not been verified as part of the Apex Quality System.
- F-13** The chromatographic pattern does not resemble the fuel standard used for quantitation
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- M-05** Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
- Q-01** Spike recovery and/or RPD is outside acceptance limits.
- Q-02** Spike recovery is outside of established control limits due to matrix interference.
- Q-05** Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- Q-16** Reanalysis of an original Batch QC sample.
- Q-29** Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
- Q-31** Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
- Q-42** Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
- Q-52** Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
- Q-54** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +12%. The results are reported as Estimated Values.
- Q-54a** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +8%. The results are reported as Estimated Values.
- Q-54b** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -1%. The results are reported as Estimated Values.
- Q-55** Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
- Q-56** Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- R-04** Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.
- S-01** Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
- S-03** Sample re-extract, or the analysis of an associated Batch QC sample, confirms surrogate failure due to sample matrix effect.

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
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- S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- TCLP** This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23F0831.
- TCLPa** This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23F1018/23F1065.
- V-15** Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1367 - 07 25 23 1421
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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

- DET Analyte DETECTED at or above the detection or reporting limit.
- ND Analyte NOT DETECTED at or above the detection or reporting limit.
- NR Result Not Reported
- RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as "dry", "wet", or "" (blank) designation.

- "dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
- "wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
- "" Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

Results for Volatiles analyses on soils and sediments that are reported on a "dry weight" basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an "As Received" basis do not have the WMS correction applied, as dry weight was not performed.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

- " --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- " *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

- Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
- For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
- For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
- For further details, please request a copy of this document.
- Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.
- 'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

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LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -
EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
--------	----------	--------	---------	--------	---------------

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

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ANALYTICAL REPORT

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-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

APEX LABS

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: Sevenson Environmental Services, Inc.
Address: 2749 Lockport Road, Niagara Falls, NY 14305
Sampled by: Emily Schlecht, End of Lockport Muck

CHAIN OF CUSTODY

Project Mgr: Chip Byrd
Project Name: Gasco -- Filtercake
Project # 111323

Lab # A3F1367
E-mail: wbyrd@sevenson.com

Phone: (716) 583-2754
Fax:

COC ___ of ___

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	8260 VOCs	1311/8260 TCPL VOCs	8270D LL Fill Lit	Dry Weight	Metals, RCRA 8	Metals, TPCL	Total Cyanide	NWTFPH - DX	NWTFPH - GX
FC-062023-2131		6/20/23	0300	S	1	X	X	X	X	X	X	X	X	X
ANALYSIS REQUEST														
SPECIAL INSTRUCTIONS:														
Normal Turn Around Time (TAT) = 6-10 Business Days														
TAT Requested (circle) 1 DAY 2 DAY 3 DAY 4 DAY 5 DAY Other: <u>STD</u>														
RELINQUISHED BY:					RECEIVED BY:					2/16/14 BC				
Signature: <u>[Signature]</u>					Signature: <u>[Signature]</u>					Signature:				
Date: <u>6-21-23</u>					Date: <u>6/21/23</u>					Date:				
Printed Name: <u>Dave Snyder</u>					Printed Name: <u>Eric [Signature]</u>					Printed Name:				
Time: <u>1005</u>					Time: <u>1005</u>					Time:				
Company: <u>SES</u>					Company: <u>APEX LABS</u>					Company:				

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APEX LABS COOLER RECEIPT FORM

Client: Sevenson Environmental Services, Inc. Element WO#: A3 F1367

Project/Project #: Gasco - Filtercake

Delivery Info:
 Date/time received: 6/21/23 @ 1005 By: EST
 Delivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen Other

Cooler Inspection Date/time inspected: 6/21/23 @ 1047 By: EST

Chain of Custody included? Yes No
 Signed/dated by client? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>1.9</u>						
Custody seals? (Y/N)	<input checked="" type="checkbox"/> Y	<u>N EST 6/21/23</u>					
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>Y</u>						
Ice type: (Gel/Real/Other)	<u>gel</u>						
Condition (In/Out):	<u>IN</u>						

Cooler out of temp? (Y/N) Possible reason why: _____
 Green dots applied to out of temperature samples? Yes No
 Out of temperature samples form initiated? Yes No

Sample Inspection: Date/time inspected: 6/21/23 @ 13:43 By: RAW

All samples intact? Yes No Comments: _____

Bottle labels/COCs agree? Yes No Comments: _____

COC/container discrepancies form initiated? Yes No

Containers/volumes received appropriate for analysis? Yes No Comments: _____

Do VOA vials have visible headspace? Yes No NA

Comments: _____

Water samples: pH checked: Yes No NA pH appropriate? Yes No NA

Comments: _____

Additional information:

Labeled by: RAW Witness: DS Cooler Inspected by: EST

Form Y-003 R-00

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Wednesday, August 9, 2023

Chip Byrd
Sevenson Environmental Services, Inc.
2749 Lockport Road
Niagara Falls, NY 14305

RE: A3G1199 - Gasco -- Filtercake - 111323

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3G1199, which was received by the laboratory on 7/19/2023 at 9:50:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler 2.5 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3G1199 - 08 09 23 0710
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FC-071923-2148	A3G1199-01	Solid	07/19/23 03:35	07/19/23 09:50

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ANALYTICAL REPORT

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6700 S.W. Sandburg Street
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 503-718-2323
 ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3G1199 - 08 09 23 0710
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ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-071923-2148 (A3G1199-01)				Matrix: Solid		Batch: 23G0724		CONT
Diesel	1570000	37900	75900	ug/kg dry	1	07/25/23 07:06	NWTPH-Dx	F-13
Oil	ND	75900	152000	ug/kg dry	1	07/25/23 07:06	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 96 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>07/25/23 07:06</i>	<i>NWTPH-Dx</i>

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ANALYTICAL REPORT

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 ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3G1199 - 08 09 23 0710
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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-071923-2148 (A3G1199-01RE1)				Matrix: Solid		Batch: 23G0582		V-15
Gasoline Range Organics	68000	16800	33700	ug/kg dry	50	07/20/23 18:46	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 95 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	07/20/23 18:46	NWTPH-Gx (MS)	
<i>1,4-Difluorobenzene (Sur)</i>			<i>93 %</i>	<i>50-150 %</i>	<i>1</i>	07/20/23 18:46	NWTPH-Gx (MS)	

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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-071923-2148 (A3G1199-01RE1)				Matrix: Solid		Batch: 23G0582		V-15
Acetone	ND	3370	6730	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
Benzene	50.5	33.7	67.3	ug/kg dry	50	07/20/23 18:46	5035A/8260D	J
Bromobenzene	ND	84.2	168	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
Bromochloromethane	ND	168	337	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
Bromodichloromethane	ND	168	337	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
Bromoform	ND	337	673	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
Bromomethane	ND	3370	3370	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
2-Butanone (MEK)	ND	1680	3370	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
n-Butylbenzene	ND	168	337	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
sec-Butylbenzene	ND	168	337	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
tert-Butylbenzene	ND	168	337	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
Carbon tetrachloride	ND	168	337	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
Chlorobenzene	ND	84.2	168	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
Chloroethane	ND	1680	3370	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
Chloroform	ND	168	337	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
Chloromethane	ND	842	1680	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
2-Chlorotoluene	ND	168	337	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
4-Chlorotoluene	ND	168	337	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
Dibromochloromethane	ND	337	673	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	1680	1680	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	168	337	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
Dibromomethane	ND	168	337	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
1,2-Dichlorobenzene	ND	84.2	168	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
1,3-Dichlorobenzene	ND	84.2	168	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
1,4-Dichlorobenzene	ND	84.2	168	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
Dichlorodifluoromethane	ND	337	673	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
1,1-Dichloroethane	ND	84.2	168	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	84.2	168	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
1,1-Dichloroethene	ND	84.2	168	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
cis-1,2-Dichloroethene	ND	84.2	168	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
trans-1,2-Dichloroethene	ND	84.2	168	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
1,2-Dichloropropane	ND	84.2	168	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
1,3-Dichloropropane	ND	168	337	ug/kg dry	50	07/20/23 18:46	5035A/8260D	

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3G1199 - 08 09 23 0710
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-071923-2148 (A3G1199-01RE1)				Matrix: Solid		Batch: 23G0582		V-15
2,2-Dichloropropane	ND	168	337	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
1,1-Dichloropropene	ND	168	337	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
cis-1,3-Dichloropropene	ND	168	337	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
trans-1,3-Dichloropropene	ND	168	337	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
Ethylbenzene	ND	84.2	168	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
Hexachlorobutadiene	ND	337	673	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
2-Hexanone	ND	1680	3370	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
Isopropylbenzene	ND	168	337	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
4-Isopropyltoluene	ND	168	337	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
Methylene chloride	ND	1680	3370	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
4-Methyl-2-pentanone (MIBK)	ND	1680	3370	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	168	337	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
Naphthalene	801	337	673	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
n-Propylbenzene	ND	84.2	168	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
Styrene	ND	168	337	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	84.2	168	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	168	337	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
Tetrachloroethene (PCE)	ND	84.2	168	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
Toluene	ND	168	337	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
1,2,3-Trichlorobenzene	ND	842	1680	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
1,2,4-Trichlorobenzene	ND	842	1680	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
1,1,1-Trichloroethane	ND	84.2	168	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
1,1,2-Trichloroethane	ND	84.2	168	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
Trichloroethene (TCE)	ND	84.2	168	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
Trichlorofluoromethane	ND	337	673	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
1,2,3-Trichloropropane	ND	168	337	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
1,2,4-Trimethylbenzene	259	168	337	ug/kg dry	50	07/20/23 18:46	5035A/8260D	J
1,3,5-Trimethylbenzene	ND	168	337	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
Vinyl chloride	ND	84.2	168	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
m,p-Xylene	ND	168	337	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
o-Xylene	ND	84.2	168	ug/kg dry	50	07/20/23 18:46	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 111 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/20/23 18:46</i>	<i>5035A/8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/23 18:46</i>	<i>5035A/8260D</i>

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3G1199 - 08 09 23 0710
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-071923-2148 (A3G1199-01RE1)				Matrix: Solid		Batch: 23G0582		V-15
<i>Surrogate: 4-Bromofluorobenzene (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 79-120 %</i>		<i>1</i>	<i>07/20/23 18:46</i>	<i>5035A/8260D</i>

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ANALYTICAL SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-071923-2148 (A3G1199-01)				Matrix: Solid		Batch: 23G0708		CONT
Benzene	ND	6.25	12.5	ug/L	50	07/24/23 17:22	1311/8260D	
2-Butanone (MEK)	ND	250	500	ug/L	50	07/24/23 17:22	1311/8260D	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	07/24/23 17:22	1311/8260D	
Chlorobenzene	ND	12.5	25.0	ug/L	50	07/24/23 17:22	1311/8260D	
Chloroform	ND	25.0	50.0	ug/L	50	07/24/23 17:22	1311/8260D	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	07/24/23 17:22	1311/8260D	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	07/24/23 17:22	1311/8260D	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	07/24/23 17:22	1311/8260D	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	07/24/23 17:22	1311/8260D	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	07/24/23 17:22	1311/8260D	
Vinyl chloride	ND	12.5	25.0	ug/L	50	07/24/23 17:22	1311/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 109 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/24/23 17:22</i>	<i>1311/8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/24/23 17:22</i>	<i>1311/8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/24/23 17:22</i>	<i>1311/8260D</i>

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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-071923-2148 (A3G1199-01)				Matrix: Solid		Batch: 23G0614		CONT
Acenaphthene	20400	2790	5600	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Acenaphthylene	ND	2790	5600	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Anthracene	23800	2790	5600	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Benz(a)anthracene	15800	2790	5600	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Benzo(a)pyrene	16600	4190	8380	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Benzo(b)fluoranthene	13000	4190	8380	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Benzo(k)fluoranthene	6620	4190	8380	ug/kg dry	200	07/21/23 23:07	EPA 8270E	J
Benzo(g,h,i)perylene	9520	2790	5600	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Chrysene	21700	2790	5600	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Dibenz(a,h)anthracene	ND	2790	5600	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Fluoranthene	82900	2790	5600	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Fluorene	14900	2790	5600	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Indeno(1,2,3-cd)pyrene	8490	2790	5600	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
1-Methylnaphthalene	ND	5600	11200	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
2-Methylnaphthalene	ND	5600	11200	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Naphthalene	ND	5600	11200	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Phenanthrene	129000	2790	5600	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Pyrene	99600	2790	5600	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Carbazole	ND	4190	8380	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Dibenzofuran	ND	2790	5600	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
2-Chlorophenol	ND	14000	27900	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
4-Chloro-3-methylphenol	ND	27900	56000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
2,4-Dichlorophenol	ND	14000	27900	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
2,4-Dimethylphenol	ND	14000	27900	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
2,4-Dinitrophenol	ND	69800	140000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	69800	140000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
2-Methylphenol	ND	6980	14000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
3+4-Methylphenol(s)	ND	6980	14000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
2-Nitrophenol	ND	27900	56000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
4-Nitrophenol	ND	27900	56000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Pentachlorophenol (PCP)	ND	27900	56000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Phenol	ND	5600	11200	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	14000	27900	ug/kg dry	200	07/21/23 23:07	EPA 8270E	

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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-071923-2148 (A3G1199-01)				Matrix: Solid		Batch: 23G0614		CONT
2,3,5,6-Tetrachlorophenol	ND	14000	27900	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
2,4,5-Trichlorophenol	ND	14000	27900	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
2,4,6-Trichlorophenol	ND	14000	27900	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	41900	83800	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Butyl benzyl phthalate	ND	27900	56000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Diethylphthalate	ND	27900	56000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Dimethylphthalate	ND	27900	56000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Di-n-butylphthalate	ND	27900	56000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Di-n-octyl phthalate	ND	27900	56000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
N-Nitrosodimethylamine	ND	6980	14000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	6980	14000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
N-Nitrosodiphenylamine	ND	6980	14000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	6980	14000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	6980	14000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	6980	14000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Hexachlorobenzene	ND	2790	5600	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Hexachlorobutadiene	ND	6980	14000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Hexachlorocyclopentadiene	ND	14000	27900	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Hexachloroethane	ND	6980	14000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
2-Chloronaphthalene	ND	2790	5600	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
1,2,4-Trichlorobenzene	ND	6980	14000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
4-Bromophenyl phenyl ether	ND	6980	14000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	6980	14000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Aniline	ND	14000	27900	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
4-Chloroaniline	ND	6980	14000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
2-Nitroaniline	ND	56000	112000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
3-Nitroaniline	ND	56000	112000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
4-Nitroaniline	ND	56000	112000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Nitrobenzene	ND	27900	56000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
2,4-Dinitrotoluene	ND	27900	56000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
2,6-Dinitrotoluene	ND	27900	56000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Benzoic acid	ND	350000	698000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	
Benzyl alcohol	ND	14000	27900	ug/kg dry	200	07/21/23 23:07	EPA 8270E	

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3G1199 - 08 09 23 0710
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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
FC-071923-2148 (A3G1199-01)				Matrix: Solid		Batch: 23G0614		CONT	
Isophorone	ND	6980	14000	ug/kg dry	200	07/21/23 23:07	EPA 8270E		
Azobenzene (1,2-DPH)	ND	6980	14000	ug/kg dry	200	07/21/23 23:07	EPA 8270E		
Bis(2-Ethylhexyl) adipate	ND	69800	140000	ug/kg dry	200	07/21/23 23:07	EPA 8270E		
3,3'-Dichlorobenzidine	ND	56000	112000	ug/kg dry	200	07/21/23 23:07	EPA 8270E	Q-52	
1,2-Dinitrobenzene	ND	69800	140000	ug/kg dry	200	07/21/23 23:07	EPA 8270E		
1,3-Dinitrobenzene	ND	69800	140000	ug/kg dry	200	07/21/23 23:07	EPA 8270E		
1,4-Dinitrobenzene	ND	69800	140000	ug/kg dry	200	07/21/23 23:07	EPA 8270E		
Pyridine	ND	14000	27900	ug/kg dry	200	07/21/23 23:07	EPA 8270E		
1,2-Dichlorobenzene	ND	6980	14000	ug/kg dry	200	07/21/23 23:07	EPA 8270E		
1,3-Dichlorobenzene	ND	6980	14000	ug/kg dry	200	07/21/23 23:07	EPA 8270E		
1,4-Dichlorobenzene	ND	6980	14000	ug/kg dry	200	07/21/23 23:07	EPA 8270E		
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 52 %</i>		<i>Limits: 37-122 %</i>		<i>200</i>	<i>07/21/23 23:07</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>2-Fluorobiphenyl (Surr)</i>		<i>88 %</i>		<i>44-120 %</i>		<i>200</i>	<i>07/21/23 23:07</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>Phenol-d6 (Surr)</i>		<i>22 %</i>		<i>33-122 %</i>		<i>200</i>	<i>07/21/23 23:07</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>94 %</i>		<i>54-127 %</i>		<i>200</i>	<i>07/21/23 23:07</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>2-Fluorophenol (Surr)</i>		<i>141 %</i>		<i>35-120 %</i>		<i>200</i>	<i>07/21/23 23:07</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>2,4,6-Tribromophenol (Surr)</i>		<i>261 %</i>		<i>39-132 %</i>		<i>200</i>	<i>07/21/23 23:07</i>	<i>EPA 8270E</i>	<i>S-05</i>

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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-071923-2148 (A3G1199-01)				Matrix: Solid				
Batch: 23G0565								
Arsenic	8990	2100	4210	ug/kg dry	10	07/20/23 13:59	EPA 6020B	CONT
Barium	198000	2100	4210	ug/kg dry	10	07/20/23 13:59	EPA 6020B	CONT
Cadmium	ND	421	841	ug/kg dry	10	07/20/23 13:59	EPA 6020B	CONT
Chromium	ND	2100	4210	ug/kg dry	10	07/20/23 13:59	EPA 6020B	CONT
Lead	ND	421	841	ug/kg dry	10	07/20/23 13:59	EPA 6020B	CONT
Mercury	ND	168	337	ug/kg dry	10	07/20/23 13:59	EPA 6020B	CONT
Selenium	ND	2100	4210	ug/kg dry	10	07/20/23 13:59	EPA 6020B	CONT
Silver	ND	421	841	ug/kg dry	10	07/20/23 13:59	EPA 6020B	CONT

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ANALYTICAL SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
FC-071923-2148 (A3G1199-01)				Matrix: Solid					
Batch: 23G0784									
Arsenic	ND	50.0	100	ug/L	10	07/25/23 19:23	1311/6020B	CONT	
Barium	ND	2500	5000	ug/L	10	07/25/23 19:23	1311/6020B	CONT	
Cadmium	ND	50.0	100	ug/L	10	07/25/23 19:23	1311/6020B	CONT	
Chromium	ND	50.0	100	ug/L	10	07/25/23 19:23	1311/6020B	CONT	
Lead	ND	25.0	50.0	ug/L	10	07/25/23 19:23	1311/6020B	CONT	
Mercury	ND	3.75	7.00	ug/L	10	07/25/23 19:23	1311/6020B	CONT	
Selenium	ND	50.0	100	ug/L	10	07/25/23 19:23	1311/6020B	CONT	
Silver	ND	50.0	100	ug/L	10	07/25/23 19:23	1311/6020B	CONT	

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ANALYTICAL SAMPLE RESULTS

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-071923-2148 (A3G1199-01RE1)				Matrix: Solid		Batch: 23G0673		CONT
Total Cyanide	6980	986	1970	ug/kg dry	5	07/24/23 15:41	D7511-12	

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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-071923-2148 (A3G1199-01)				Matrix: Solid		Batch: 23G0577		CONT
% Solids	25.3	---	1.00	%	1	07/21/23 06:17	EPA 8000D	

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ANALYTICAL SAMPLE RESULTS

TCLP Extraction by EPA 1311 (ZHE)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-071923-2148 (A3G1199-01)				Matrix: Solid		Batch: 23G0594		CONT
TCLP ZHE Extraction	PREP	---		N/A	1	07/20/23 14:31	EPA 1311 ZHE	
TCLP Extraction	PREP	---		N/A	1	07/24/23 17:36	EPA 1311	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0724 - EPA 3546 (Fuels)						Solid						
Blank (23G0724-BLK1)			Prepared: 07/24/23 17:08 Analyzed: 07/25/23 05:43									
<u>NWTPH-Dx</u>												
Diesel	ND	10000	20000	ug/kg wet	1	---	---	---	---	---	---	
Oil	ND	20000	40000	ug/kg wet	1	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 95 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
LCS (23G0724-BS1)			Prepared: 07/24/23 17:08 Analyzed: 07/25/23 06:04									
<u>NWTPH-Dx</u>												
Diesel	116000	10000	20000	ug/kg wet	1	125000	---	93	38-132%	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 95 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
Duplicate (23G0724-DUP1)			Prepared: 07/24/23 17:08 Analyzed: 07/25/23 06:45									
<u>QC Source Sample: Non-SDG (A3G1118-01)</u>												
Diesel	ND	12500	24900	ug/kg dry	1	---	ND	---	---	---	30%	
Oil	ND	24900	49800	ug/kg dry	1	---	ND	---	---	---	30%	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 53 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0582 - EPA 5035A						Soil						
Blank (23G0582-BLK1)			Prepared: 07/20/23 10:24 Analyzed: 07/20/23 12:50									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	2500	5000	ug/kg wet	50	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 87 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>96 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (23G0582-BS2)			Prepared: 07/20/23 10:24 Analyzed: 07/20/23 12:21									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	22700	2500	5000	ug/kg wet	50	25000	---	91	80-120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 89 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>96 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (23G0582-DUP1)			Prepared: 07/19/23 10:45 Analyzed: 07/20/23 13:41									
<u>QC Source Sample: Non-SDG (A3G1206-01)</u>												
Gasoline Range Organics	66100	3340	6670	ug/kg dry	50	---	73400	---	---	10	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 94 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>95 %</i>		<i>50-150 %</i>		<i>"</i>						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0582 - EPA 5035A						Soil						
Blank (23G0582-BLK1)			Prepared: 07/20/23 10:24 Analyzed: 07/20/23 12:50									
<u>5035A/8260D</u>												
Acetone	ND	500	1000	ug/kg wet	50	---	---	---	---	---	---	
Acrylonitrile	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Benzene	ND	5.00	10.0	ug/kg wet	50	---	---	---	---	---	---	
Bromobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Bromochloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromodichloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromoform	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Bromomethane	ND	500	500	ug/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
n-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Carbon disulfide	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Chloroethane	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chloromethane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromochloromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	250	250	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromomethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

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Sevenson Environmental Services, Inc.	Project: Gasco -- Filtercake	
2749 Lockport Road	Project Number: 111323	Report ID:
Niagara Falls, NY 14305	Project Manager: Chip Byrd	A3G1199 - 08 09 23 0710

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0582 - EPA 5035A						Soil						
Blank (23G0582-BLK1)			Prepared: 07/20/23 10:24 Analyzed: 07/20/23 12:50									
1,2-Dichloropropane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Methylene chloride	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Styrene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr)

Recovery: 98 %

Limits: 80-120 %

Dilution: 1x

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3G1199 - 08 09 23 0710
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0582 - EPA 5035A						Soil						
Blank (23G0582-BLK1)						Prepared: 07/20/23 10:24 Analyzed: 07/20/23 12:50						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 99 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>79-120 %</i>		<i>"</i>						
LCS (23G0582-BS1)						Prepared: 07/20/23 10:24 Analyzed: 07/20/23 11:56						
5035A/8260D												
Acetone	1790	500	1000	ug/kg wet	50	2000	---	89	80-120%	---	---	
Acrylonitrile	936	50.0	100	ug/kg wet	50	1000	---	94	80-120%	---	---	
Benzene	977	5.00	10.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Bromobenzene	940	12.5	25.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
Bromochloromethane	896	25.0	50.0	ug/kg wet	50	1000	---	90	80-120%	---	---	
Bromodichloromethane	856	25.0	50.0	ug/kg wet	50	1000	---	86	80-120%	---	---	
Bromoform	897	50.0	100	ug/kg wet	50	1000	---	90	80-120%	---	---	
Bromomethane	876	500	500	ug/kg wet	50	1000	---	88	80-120%	---	---	
2-Butanone (MEK)	1710	250	500	ug/kg wet	50	2000	---	86	80-120%	---	---	
n-Butylbenzene	948	25.0	50.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
sec-Butylbenzene	980	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
tert-Butylbenzene	950	25.0	50.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
Carbon disulfide	840	250	500	ug/kg wet	50	1000	---	84	80-120%	---	---	
Carbon tetrachloride	929	25.0	50.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
Chlorobenzene	942	12.5	25.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
Chloroethane	1050	250	500	ug/kg wet	50	1000	---	105	80-120%	---	---	
Chloroform	934	25.0	50.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
Chloromethane	811	125	250	ug/kg wet	50	1000	---	81	80-120%	---	---	
2-Chlorotoluene	924	25.0	50.0	ug/kg wet	50	1000	---	92	80-120%	---	---	
4-Chlorotoluene	914	25.0	50.0	ug/kg wet	50	1000	---	91	80-120%	---	---	
Dibromochloromethane	930	50.0	100	ug/kg wet	50	1000	---	93	80-120%	---	---	
1,2-Dibromo-3-chloropropane	769	250	250	ug/kg wet	50	1000	---	77	80-120%	---	---	Q-55
1,2-Dibromoethane (EDB)	954	25.0	50.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
Dibromomethane	944	25.0	50.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
1,2-Dichlorobenzene	920	12.5	25.0	ug/kg wet	50	1000	---	92	80-120%	---	---	
1,3-Dichlorobenzene	910	12.5	25.0	ug/kg wet	50	1000	---	91	80-120%	---	---	
1,4-Dichlorobenzene	918	12.5	25.0	ug/kg wet	50	1000	---	92	80-120%	---	---	
Dichlorodifluoromethane	960	50.0	100	ug/kg wet	50	1000	---	96	80-120%	---	---	
1,1-Dichloroethane	918	12.5	25.0	ug/kg wet	50	1000	---	92	80-120%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3G1199 - 08 09 23 0710
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0582 - EPA 5035A						Soil						
LCS (23G0582-BS1)			Prepared: 07/20/23 10:24 Analyzed: 07/20/23 11:56									
1,2-Dichloroethane (EDC)	967	12.5	25.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
1,1-Dichloroethene	911	12.5	25.0	ug/kg wet	50	1000	---	91	80-120%	---	---	
cis-1,2-Dichloroethene	892	12.5	25.0	ug/kg wet	50	1000	---	89	80-120%	---	---	
trans-1,2-Dichloroethene	918	12.5	25.0	ug/kg wet	50	1000	---	92	80-120%	---	---	
1,2-Dichloropropane	886	12.5	25.0	ug/kg wet	50	1000	---	89	80-120%	---	---	
1,3-Dichloropropane	942	25.0	50.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
2,2-Dichloropropane	918	25.0	50.0	ug/kg wet	50	1000	---	92	80-120%	---	---	
1,1-Dichloropropene	940	25.0	50.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
cis-1,3-Dichloropropene	922	25.0	50.0	ug/kg wet	50	1000	---	92	80-120%	---	---	
trans-1,3-Dichloropropene	932	25.0	50.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
Ethylbenzene	916	12.5	25.0	ug/kg wet	50	1000	---	92	80-120%	---	---	
Hexachlorobutadiene	857	50.0	100	ug/kg wet	50	1000	---	86	80-120%	---	---	
2-Hexanone	1680	250	500	ug/kg wet	50	2000	---	84	80-120%	---	---	
Isopropylbenzene	954	25.0	50.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
4-Isopropyltoluene	962	25.0	50.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
Methylene chloride	1030	250	500	ug/kg wet	50	1000	---	103	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	1760	250	500	ug/kg wet	50	2000	---	88	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	900	25.0	50.0	ug/kg wet	50	1000	---	90	80-120%	---	---	
Naphthalene	900	50.0	100	ug/kg wet	50	1000	---	90	80-120%	---	---	
n-Propylbenzene	948	12.5	25.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
Styrene	930	25.0	50.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
1,1,1,2-Tetrachloroethane	914	12.5	25.0	ug/kg wet	50	1000	---	91	80-120%	---	---	
1,1,2,2-Tetrachloroethane	906	25.0	50.0	ug/kg wet	50	1000	---	91	80-120%	---	---	
Tetrachloroethene (PCE)	954	12.5	25.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
Toluene	912	25.0	50.0	ug/kg wet	50	1000	---	91	80-120%	---	---	
1,2,3-Trichlorobenzene	904	125	250	ug/kg wet	50	1000	---	90	80-120%	---	---	
1,2,4-Trichlorobenzene	856	125	250	ug/kg wet	50	1000	---	86	80-120%	---	---	
1,1,1-Trichloroethane	943	12.5	25.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
1,1,2-Trichloroethane	977	12.5	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Trichloroethene (TCE)	942	12.5	25.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
Trichlorofluoromethane	1210	50.0	100	ug/kg wet	50	1000	---	121	80-120%	---	---	Q-56
1,2,3-Trichloropropane	922	25.0	50.0	ug/kg wet	50	1000	---	92	80-120%	---	---	
1,2,4-Trimethylbenzene	993	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
1,3,5-Trimethylbenzene	964	25.0	50.0	ug/kg wet	50	1000	---	96	80-120%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc.	Project: Gasco -- Filtercake	
2749 Lockport Road	Project Number: 111323	Report ID:
Niagara Falls, NY 14305	Project Manager: Chip Byrd	A3G1199 - 08 09 23 0710

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0582 - EPA 5035A						Soil						
LCS (23G0582-BS1)						Prepared: 07/20/23 10:24 Analyzed: 07/20/23 11:56						
Vinyl chloride	898	12.5	25.0	ug/kg wet	50	1000	---	90	80-120%	---	---	
m,p-Xylene	1880	25.0	50.0	ug/kg wet	50	2000	---	94	80-120%	---	---	
o-Xylene	902	12.5	25.0	ug/kg wet	50	1000	---	90	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 97 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (23G0582-DUP1)						Prepared: 07/19/23 10:45 Analyzed: 07/20/23 13:41						
QC Source Sample: Non-SDG (A3G1206-01)												
Acetone	ND	667	1330	ug/kg dry	50	---	ND	---	---	---	30%	
Acrylonitrile	ND	66.7	133	ug/kg dry	50	---	ND	---	---	---	30%	
Benzene	ND	6.67	13.3	ug/kg dry	50	---	ND	---	---	---	30%	
Bromobenzene	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
Bromochloromethane	ND	33.4	66.7	ug/kg dry	50	---	ND	---	---	---	30%	
Bromodichloromethane	ND	33.4	66.7	ug/kg dry	50	---	ND	---	---	---	30%	
Bromoform	ND	66.7	133	ug/kg dry	50	---	ND	---	---	---	30%	
Bromomethane	ND	667	667	ug/kg dry	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	334	667	ug/kg dry	50	---	ND	---	---	---	30%	
n-Butylbenzene	ND	33.4	66.7	ug/kg dry	50	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	33.4	66.7	ug/kg dry	50	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	33.4	66.7	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon disulfide	ND	334	667	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	33.4	66.7	ug/kg dry	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroethane	ND	334	667	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroform	ND	33.4	66.7	ug/kg dry	50	---	ND	---	---	---	30%	
Chloromethane	ND	167	334	ug/kg dry	50	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	33.4	66.7	ug/kg dry	50	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	33.4	66.7	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromochloromethane	ND	66.7	133	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	334	334	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	33.4	66.7	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromomethane	ND	33.4	66.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3G1199 - 08 09 23 0710
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0582 - EPA 5035A						Soil						
Duplicate (23G0582-DUP1)			Prepared: 07/19/23 10:45 Analyzed: 07/20/23 13:41									
QC Source Sample: Non-SDG (A3G1206-01)												
1,3-Dichlorobenzene	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	66.7	133	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	33.4	66.7	ug/kg dry	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	33.4	66.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	33.4	66.7	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	33.4	66.7	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	33.4	66.7	ug/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	166	16.7	33.4	ug/kg dry	50	---	166	---	---	0	30%	
Hexachlorobutadiene	ND	66.7	133	ug/kg dry	50	---	ND	---	---	---	30%	
2-Hexanone	ND	33.4	66.7	ug/kg dry	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	33.4	66.7	ug/kg dry	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	33.4	66.7	ug/kg dry	50	---	ND	---	---	---	30%	
Methylene chloride	ND	33.4	66.7	ug/kg dry	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	33.4	66.7	ug/kg dry	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	33.4	66.7	ug/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	66.7	133	ug/kg dry	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
Styrene	ND	33.4	66.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	200	200	ug/kg dry	50	---	ND	---	---	---	30%	R-02
Tetrachloroethene (PCE)	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	33.4	66.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3G1199 - 08 09 23 0710
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0582 - EPA 5035A						Soil						
Duplicate (23G0582-DUP1)			Prepared: 07/19/23 10:45 Analyzed: 07/20/23 13:41									
QC Source Sample: Non-SDG (A3G1206-01)												
Trichloroethene (TCE)	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	66.7	133	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	33.4	66.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	122	33.4	66.7	ug/kg dry	50	---	133	---	---	8	30%	
1,3,5-Trimethylbenzene	38.7	33.4	66.7	ug/kg dry	50	---	40.0	---	---	3	30%	
Vinyl chloride	ND	16.7	33.4	ug/kg dry	50	---	ND	---	---	---	30%	
m,p-Xylene	398	33.4	66.7	ug/kg dry	50	---	410	---	---	3	30%	
o-Xylene	201	16.7	33.4	ug/kg dry	50	---	206	---	---	2	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 97%</i>		<i>Limits: 80-120%</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>96%</i>		<i>80-120%</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97%</i>		<i>79-120%</i>		<i>"</i>						

Matrix Spike (23G0582-MS1)						Prepared: 07/18/23 10:35 Analyzed: 07/20/23 15:23						
QC Source Sample: Non-SDG (A3G1227-02)												
5035A/8260D												
Acetone	2690	724	1450	ug/kg dry	50	2900	ND	93	36-164%	---	---	
Acrylonitrile	1440	72.4	145	ug/kg dry	50	1450	ND	99	65-134%	---	---	
Benzene	1510	7.24	14.5	ug/kg dry	50	1450	ND	104	77-121%	---	---	
Bromobenzene	1450	18.1	36.2	ug/kg dry	50	1450	ND	100	78-121%	---	---	
Bromochloromethane	1370	36.2	72.4	ug/kg dry	50	1450	ND	94	78-125%	---	---	
Bromodichloromethane	1330	36.2	72.4	ug/kg dry	50	1450	ND	92	75-127%	---	---	
Bromoform	1380	72.4	145	ug/kg dry	50	1450	ND	95	67-132%	---	---	
Bromomethane	1480	724	724	ug/kg dry	50	1450	ND	102	53-143%	---	---	
2-Butanone (MEK)	2710	362	724	ug/kg dry	50	2900	ND	93	51-148%	---	---	
n-Butylbenzene	1510	36.2	72.4	ug/kg dry	50	1450	ND	104	70-128%	---	---	
sec-Butylbenzene	1560	36.2	72.4	ug/kg dry	50	1450	ND	108	73-126%	---	---	
tert-Butylbenzene	1480	36.2	72.4	ug/kg dry	50	1450	ND	103	73-125%	---	---	
Carbon disulfide	1360	362	724	ug/kg dry	50	1450	ND	94	63-132%	---	---	
Carbon tetrachloride	1470	36.2	72.4	ug/kg dry	50	1450	ND	102	70-135%	---	---	
Chlorobenzene	1480	18.1	36.2	ug/kg dry	50	1450	ND	102	79-120%	---	---	
Chloroethane	1730	362	724	ug/kg dry	50	1450	ND	119	59-139%	---	---	
Chloroform	1430	36.2	72.4	ug/kg dry	50	1450	ND	99	78-123%	---	---	
Chloromethane	1240	181	362	ug/kg dry	50	1450	ND	85	50-136%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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 503-718-2323
 ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3G1199 - 08 09 23 0710
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0582 - EPA 5035A							Soil					
Matrix Spike (23G0582-MS1)				Prepared: 07/18/23 10:35 Analyzed: 07/20/23 15:23								
QC Source Sample: Non-SDG (A3G1227-02)												
2-Chlorotoluene	1490	36.2	72.4	ug/kg dry	50	1450	ND 103		75-122%	---	---	
4-Chlorotoluene	1430	36.2	72.4	ug/kg dry	50	1450	ND 99		72-124%	---	---	
Dibromochloromethane	1400	72.4	145	ug/kg dry	50	1450	ND 97		74-126%	---	---	
1,2-Dibromo-3-chloropropane	1130	362	362	ug/kg dry	50	1450	ND 78		61-132%	---	---	Q-54b
1,2-Dibromoethane (EDB)	1490	36.2	72.4	ug/kg dry	50	1450	ND 103		78-122%	---	---	
Dibromomethane	1390	36.2	72.4	ug/kg dry	50	1450	ND 96		78-125%	---	---	
1,2-Dichlorobenzene	1390	18.1	36.2	ug/kg dry	50	1450	ND 96		78-121%	---	---	
1,3-Dichlorobenzene	1380	18.1	36.2	ug/kg dry	50	1450	ND 95		77-121%	---	---	
1,4-Dichlorobenzene	1390	18.1	36.2	ug/kg dry	50	1450	ND 96		75-120%	---	---	
Dichlorodifluoromethane	1590	72.4	145	ug/kg dry	50	1450	ND 110		29-149%	---	---	
1,1-Dichloroethane	1420	18.1	36.2	ug/kg dry	50	1450	ND 98		76-125%	---	---	
1,2-Dichloroethane (EDC)	1450	18.1	36.2	ug/kg dry	50	1450	ND 100		73-128%	---	---	
1,1-Dichloroethene	1510	18.1	36.2	ug/kg dry	50	1450	ND 105		70-131%	---	---	
cis-1,2-Dichloroethene	1360	18.1	36.2	ug/kg dry	50	1450	ND 94		77-123%	---	---	
trans-1,2-Dichloroethene	1460	18.1	36.2	ug/kg dry	50	1450	ND 101		74-125%	---	---	
1,2-Dichloropropane	1350	18.1	36.2	ug/kg dry	50	1450	ND 94		76-123%	---	---	
1,3-Dichloropropane	1430	36.2	72.4	ug/kg dry	50	1450	ND 99		77-121%	---	---	
2,2-Dichloropropane	1420	36.2	72.4	ug/kg dry	50	1450	ND 98		67-133%	---	---	
1,1-Dichloropropene	1530	36.2	72.4	ug/kg dry	50	1450	ND 106		76-125%	---	---	
cis-1,3-Dichloropropene	1430	36.2	72.4	ug/kg dry	50	1450	ND 99		74-126%	---	---	
trans-1,3-Dichloropropene	1460	36.2	72.4	ug/kg dry	50	1450	ND 101		71-130%	---	---	
Ethylbenzene	1480	18.1	36.2	ug/kg dry	50	1450	ND 102		76-122%	---	---	
Hexachlorobutadiene	1390	72.4	145	ug/kg dry	50	1450	ND 96		61-135%	---	---	
2-Hexanone	2590	362	724	ug/kg dry	50	2900	ND 89		53-145%	---	---	
Isopropylbenzene	1530	36.2	72.4	ug/kg dry	50	1450	ND 106		68-134%	---	---	
4-Isopropyltoluene	1500	36.2	72.4	ug/kg dry	50	1450	ND 103		73-127%	---	---	
Methylene chloride	1500	362	724	ug/kg dry	50	1450	ND 104		70-128%	---	---	
4-Methyl-2-pentanone (MiBK)	2740	362	724	ug/kg dry	50	2900	ND 95		65-135%	---	---	
Methyl tert-butyl ether (MTBE)	1350	36.2	72.4	ug/kg dry	50	1450	ND 93		73-125%	---	---	
Naphthalene	1350	72.4	145	ug/kg dry	50	1450	ND 93		62-129%	---	---	
n-Propylbenzene	1510	18.1	36.2	ug/kg dry	50	1450	ND 104		73-125%	---	---	
Styrene	1490	36.2	72.4	ug/kg dry	50	1450	ND 103		76-124%	---	---	
1,1,1,2-Tetrachloroethane	1430	18.1	36.2	ug/kg dry	50	1450	ND 98		78-125%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3G1199 - 08 09 23 0710
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0582 - EPA 5035A						Soil						
Matrix Spike (23G0582-MS1)			Prepared: 07/18/23 10:35 Analyzed: 07/20/23 15:23									
QC Source Sample: Non-SDG (A3G1227-02)												
1,1,2,2-Tetrachloroethane	1350	36.2	72.4	ug/kg dry	50	1450	ND	93	70-124%	---	---	
Tetrachloroethene (PCE)	1550	18.1	36.2	ug/kg dry	50	1450	ND	107	73-128%	---	---	
Toluene	1440	36.2	72.4	ug/kg dry	50	1450	ND	100	77-121%	---	---	
1,2,3-Trichlorobenzene	1350	181	362	ug/kg dry	50	1450	ND	93	66-130%	---	---	
1,2,4-Trichlorobenzene	1290	181	362	ug/kg dry	50	1450	ND	89	67-129%	---	---	
1,1,1-Trichloroethane	1530	18.1	36.2	ug/kg dry	50	1450	ND	106	73-130%	---	---	
1,1,2-Trichloroethane	1510	18.1	36.2	ug/kg dry	50	1450	ND	104	78-121%	---	---	
Trichloroethene (TCE)	1450	18.1	36.2	ug/kg dry	50	1450	ND	100	77-123%	---	---	
Trichlorofluoromethane	3510	72.4	145	ug/kg dry	50	1450	ND	242	62-140%	---	---	Q-54
1,2,3-Trichloropropane	1370	36.2	72.4	ug/kg dry	50	1450	ND	95	73-125%	---	---	
1,2,4-Trimethylbenzene	1540	36.2	72.4	ug/kg dry	50	1450	ND	107	75-123%	---	---	
1,3,5-Trimethylbenzene	1510	36.2	72.4	ug/kg dry	50	1450	ND	104	73-124%	---	---	
Vinyl chloride	1480	18.1	36.2	ug/kg dry	50	1450	ND	102	56-135%	---	---	
m,p-Xylene	2970	36.2	72.4	ug/kg dry	50	2900	ND	103	77-124%	---	---	
o-Xylene	1460	18.1	36.2	ug/kg dry	50	1450	ND	101	77-123%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 95 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>79-120 %</i>		<i>"</i>						

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc.
2749 Lockport Road
Niagara Falls, NY 14305

Project: **Gasco -- Filtercake**
Project Number: **111323**
Project Manager: **Chip Byrd**

Report ID:
A3G1199 - 08 09 23 0710

QUALITY CONTROL (QC) SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0708 - EPA 1311/5030C TCLP Volatiles												
Water												
Blank (23G0708-BLK1)												
Prepared: 07/24/23 12:55 Analyzed: 07/24/23 16:00												
1311/8260D												
Benzene	ND	6.25	12.5	ug/L	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/L	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 108 % Limits: 80-120 % Dilution: 1x												
Toluene-d8 (Surr) 101 % 80-120 % "												
4-Bromofluorobenzene (Surr) 98 % 80-120 % "												

LCS (23G0708-BS1)												
Prepared: 07/24/23 12:55 Analyzed: 07/24/23 15:06												
1311/8260D												
Benzene	1090	6.25	12.5	ug/L	50	1000	---	109	80-120%	---	---	
2-Butanone (MEK)	2280	250	500	ug/L	50	2000	---	114	80-120%	---	---	
Carbon tetrachloride	1240	25.0	50.0	ug/L	50	1000	---	124	80-120%	---	---	Q-56
Chlorobenzene	1050	12.5	25.0	ug/L	50	1000	---	105	80-120%	---	---	
Chloroform	1110	25.0	50.0	ug/L	50	1000	---	111	80-120%	---	---	
1,4-Dichlorobenzene	1030	12.5	25.0	ug/L	50	1000	---	103	80-120%	---	---	
1,1-Dichloroethene	1050	12.5	25.0	ug/L	50	1000	---	105	80-120%	---	---	
1,2-Dichloroethane (EDC)	1110	12.5	25.0	ug/L	50	1000	---	111	80-120%	---	---	
Tetrachloroethene (PCE)	978	12.5	25.0	ug/L	50	1000	---	98	80-120%	---	---	
Trichloroethene (TCE)	1060	12.5	25.0	ug/L	50	1000	---	106	80-120%	---	---	
Vinyl chloride	1180	12.5	25.0	ug/L	50	1000	---	118	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 103 % Limits: 80-120 % Dilution: 1x												
Toluene-d8 (Surr) 99 % 80-120 % "												
4-Bromofluorobenzene (Surr) 91 % 80-120 % "												

Duplicate (23G0708-DUP1) Prepared: 07/24/23 12:55 Analyzed: 07/24/23 17:49 **CONT**

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3G1199 - 08 09 23 0710
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QUALITY CONTROL (QC) SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0708 - EPA 1311/5030C TCLP Volatiles						Water						
Duplicate (23G0708-DUP1)						Prepared: 07/24/23 12:55 Analyzed: 07/24/23 17:49						CONT
QC Source Sample: FC-071923-2148 (A3G1199-01)												
1311/8260D												
Benzene	ND	6.25	12.5	ug/L	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	250	500	ug/L	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Chloroform	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 109 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						

Matrix Spike (23G0708-MS1)						Prepared: 07/24/23 12:55 Analyzed: 07/24/23 18:43						
QC Source Sample: Non-SDG (A3G1200-01)												
1311/8260D												
Benzene	1090	6.25	12.5	ug/L	50	1000	ND	109	79-120%	---	---	
2-Butanone (MEK)	2410	250	500	ug/L	50	2000	ND	121	56-143%	---	---	
Carbon tetrachloride	1260	25.0	50.0	ug/L	50	1000	ND	126	72-136%	---	---	Q-54a
Chlorobenzene	1060	12.5	25.0	ug/L	50	1000	ND	106	80-120%	---	---	
Chloroform	1170	25.0	50.0	ug/L	50	1000	57.0	111	79-124%	---	---	
1,4-Dichlorobenzene	1020	12.5	25.0	ug/L	50	1000	ND	102	79-120%	---	---	
1,1-Dichloroethene	1070	12.5	25.0	ug/L	50	1000	ND	107	71-131%	---	---	
1,2-Dichloroethane (EDC)	1120	12.5	25.0	ug/L	50	1000	ND	112	73-128%	---	---	
Tetrachloroethene (PCE)	984	12.5	25.0	ug/L	50	1000	ND	98	74-129%	---	---	
Trichloroethene (TCE)	1060	12.5	25.0	ug/L	50	1000	ND	106	79-123%	---	---	
Vinyl chloride	1220	12.5	25.0	ug/L	50	1000	ND	122	58-137%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3G1199 - 08 09 23 0710
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QUALITY CONTROL (QC) SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0708 - EPA 1311/5030C TCLP Volatiles						Water						
Matrix Spike (23G0708-MS1)						Prepared: 07/24/23 12:55 Analyzed: 07/24/23 18:43						
QC Source Sample: Non-SDG (A3G1200-01)												
Surr: 4-Bromofluorobenzene (Surr)		Recovery: 90 %		Limits: 80-120 %		Dilution: 1x						

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Darwin Thomas, Business Development Director



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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3G1199 - 08 09 23 0710
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0614 - EPA 3546						Solid						
Blank (23G0614-BLK1)			Prepared: 07/21/23 08:30 Analyzed: 07/21/23 17:30									
<u>EPA 8270E</u>												
Acenaphthene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Chrysene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Fluoranthene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Fluorene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
Naphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
Phenanthrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Pyrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Carbazole	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Dibenzofuran	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
2-Chlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
2-Methylphenol	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Nitrophenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
4-Nitrophenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Phenol	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
 Tigard, OR 97223
 503-718-2323
 ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3G1199 - 08 09 23 0710
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0614 - EPA 3546						Solid						
Blank (23G0614-BLK1)			Prepared: 07/21/23 08:30 Analyzed: 07/21/23 17:30									
2,3,5,6-Tetrachlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	20.0	40.0	ug/kg wet	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Diethylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Dimethylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2,2'-Oxybis(1-Chloropropane)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Hexachloroethane	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Aniline	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
4-Chloroaniline	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
3-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
4-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
Nitrobenzene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Benzoic acid	ND	167	333	ug/kg wet	1	---	---	---	---	---	---	
Benzyl alcohol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Isophorone	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc.
2749 Lockport Road
Niagara Falls, NY 14305

Project: **Gasco -- Filtercake**
Project Number: **111323**
Project Manager: **Chip Byrd**

Report ID:
A3G1199 - 08 09 23 0710

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0614 - EPA 3546						Solid						
Blank (23G0614-BLK1)			Prepared: 07/21/23 08:30			Analyzed: 07/21/23 17:30						
Azobenzene (1,2-DPH)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Ethylhexyl) adipate	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	Q-52
1,2-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
Pyridine	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 77 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 1x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>81 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>83 %</i>		<i>33-122 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>89 %</i>		<i>54-127 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>82 %</i>		<i>35-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>87 %</i>		<i>39-132 %</i>		<i>"</i>						
<i>Q-41</i>												
LCS (23G0614-BS1)			Prepared: 07/21/23 08:30			Analyzed: 07/21/23 18:04						
EPA 8270E												
Acenaphthene	426	5.32	10.7	ug/kg wet	4	533	---	80	40-123%	---	---	
Acenaphthylene	445	5.32	10.7	ug/kg wet	4	533	---	84	32-132%	---	---	
Anthracene	442	5.32	10.7	ug/kg wet	4	533	---	83	47-123%	---	---	
Benz(a)anthracene	433	5.32	10.7	ug/kg wet	4	533	---	81	49-126%	---	---	
Benzo(a)pyrene	445	8.00	16.0	ug/kg wet	4	533	---	84	45-129%	---	---	
Benzo(b)fluoranthene	396	8.00	16.0	ug/kg wet	4	533	---	74	45-132%	---	---	
Benzo(k)fluoranthene	402	8.00	16.0	ug/kg wet	4	533	---	75	47-132%	---	---	
Benzo(g,h,i)perylene	437	5.32	10.7	ug/kg wet	4	533	---	82	43-134%	---	---	
Chrysene	450	5.32	10.7	ug/kg wet	4	533	---	84	50-124%	---	---	
Dibenz(a,h)anthracene	436	5.32	10.7	ug/kg wet	4	533	---	82	45-134%	---	---	
Fluoranthene	468	5.32	10.7	ug/kg wet	4	533	---	88	50-127%	---	---	
Fluorene	466	5.32	10.7	ug/kg wet	4	533	---	87	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	403	5.32	10.7	ug/kg wet	4	533	---	76	45-133%	---	---	
1-Methylnaphthalene	441	10.7	21.3	ug/kg wet	4	533	---	83	40-120%	---	---	
2-Methylnaphthalene	461	10.7	21.3	ug/kg wet	4	533	---	86	38-122%	---	---	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc.	Project: Gasco -- Filtercake	
2749 Lockport Road	Project Number: 111323	Report ID:
Niagara Falls, NY 14305	Project Manager: Chip Byrd	A3G1199 - 08 09 23 0710

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0614 - EPA 3546						Solid						
LCS (23G0614-BS1)			Prepared: 07/21/23 08:30 Analyzed: 07/21/23 18:04									
Naphthalene	419	10.7	21.3	ug/kg wet	4	533	---	79	35-123%	---	---	
Phenanthrene	420	5.32	10.7	ug/kg wet	4	533	---	79	50-121%	---	---	
Pyrene	459	5.32	10.7	ug/kg wet	4	533	---	86	47-127%	---	---	
Carbazole	474	8.00	16.0	ug/kg wet	4	533	---	89	50-123%	---	---	
Dibenzofuran	459	5.32	10.7	ug/kg wet	4	533	---	86	44-120%	---	---	
2-Chlorophenol	444	26.7	53.2	ug/kg wet	4	533	---	83	34-121%	---	---	
4-Chloro-3-methylphenol	459	53.2	107	ug/kg wet	4	533	---	86	45-122%	---	---	
2,4-Dichlorophenol	487	26.7	53.2	ug/kg wet	4	533	---	91	40-122%	---	---	
2,4-Dimethylphenol	477	26.7	53.2	ug/kg wet	4	533	---	89	30-127%	---	---	
2,4-Dinitrophenol	484	133	267	ug/kg wet	4	533	---	91	10-137%	---	---	Q-41
4,6-Dinitro-2-methylphenol	662	133	267	ug/kg wet	4	533	---	124	29-132%	---	---	Q-41
2-Methylphenol	458	13.3	26.7	ug/kg wet	4	533	---	86	32-122%	---	---	
3+4-Methylphenol(s)	462	13.3	26.7	ug/kg wet	4	533	---	87	34-120%	---	---	
2-Nitrophenol	476	53.2	107	ug/kg wet	4	533	---	89	36-123%	---	---	
4-Nitrophenol	372	53.2	107	ug/kg wet	4	533	---	70	30-132%	---	---	
Pentachlorophenol (PCP)	344	53.2	107	ug/kg wet	4	533	---	64	25-133%	---	---	
Phenol	461	10.7	21.3	ug/kg wet	4	533	---	86	34-121%	---	---	
2,3,4,6-Tetrachlorophenol	472	26.7	53.2	ug/kg wet	4	533	---	89	44-125%	---	---	
2,3,5,6-Tetrachlorophenol	469	26.7	53.2	ug/kg wet	4	533	---	88	40-120%	---	---	
2,4,5-Trichlorophenol	489	26.7	53.2	ug/kg wet	4	533	---	92	41-124%	---	---	
2,4,6-Trichlorophenol	436	26.7	53.2	ug/kg wet	4	533	---	82	39-126%	---	---	
Bis(2-ethylhexyl)phthalate	404	80.0	160	ug/kg wet	4	533	---	76	51-133%	---	---	
Butyl benzyl phthalate	414	53.2	107	ug/kg wet	4	533	---	78	48-132%	---	---	
Diethylphthalate	456	53.2	107	ug/kg wet	4	533	---	86	50-124%	---	---	
Dimethylphthalate	460	53.2	107	ug/kg wet	4	533	---	86	48-124%	---	---	
Di-n-butylphthalate	452	53.2	107	ug/kg wet	4	533	---	85	51-128%	---	---	
Di-n-octyl phthalate	363	53.2	107	ug/kg wet	4	533	---	68	45-140%	---	---	
N-Nitrosodimethylamine	326	13.3	26.7	ug/kg wet	4	533	---	61	23-120%	---	---	
N-Nitroso-di-n-propylamine	415	13.3	26.7	ug/kg wet	4	533	---	78	36-120%	---	---	
N-Nitrosodiphenylamine	441	13.3	26.7	ug/kg wet	4	533	---	83	38-127%	---	---	
Bis(2-Chloroethoxy) methane	416	13.3	26.7	ug/kg wet	4	533	---	78	36-121%	---	---	
Bis(2-Chloroethyl) ether	383	13.3	26.7	ug/kg wet	4	533	---	72	31-120%	---	---	
2,2'-Oxybis(1-Chloropropane)	392	13.3	26.7	ug/kg wet	4	533	---	73	39-120%	---	---	
Hexachlorobenzene	451	5.32	10.7	ug/kg wet	4	533	---	85	45-122%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3G1199 - 08 09 23 0710
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0614 - EPA 3546						Solid						
LCS (23G0614-BS1)			Prepared: 07/21/23 08:30 Analyzed: 07/21/23 18:04									
Hexachlorobutadiene	445	13.3	26.7	ug/kg wet	4	533	---	84	32-123%	---	---	
Hexachlorocyclopentadiene	233	26.7	53.2	ug/kg wet	4	533	---	44	10-140%	---	---	Q-31
Hexachloroethane	392	13.3	26.7	ug/kg wet	4	533	---	74	28-120%	---	---	
2-Chloronaphthalene	439	5.32	10.7	ug/kg wet	4	533	---	82	41-120%	---	---	
1,2,4-Trichlorobenzene	441	13.3	26.7	ug/kg wet	4	533	---	83	34-120%	---	---	
4-Bromophenyl phenyl ether	466	13.3	26.7	ug/kg wet	4	533	---	87	46-124%	---	---	
4-Chlorophenyl phenyl ether	490	13.3	26.7	ug/kg wet	4	533	---	92	45-121%	---	---	
Aniline	278	26.7	53.2	ug/kg wet	4	533	---	52	10-120%	---	---	Q-31
4-Chloroaniline	398	13.3	26.7	ug/kg wet	4	533	---	75	17-120%	---	---	
2-Nitroaniline	498	107	213	ug/kg wet	4	533	---	93	44-127%	---	---	
3-Nitroaniline	507	107	213	ug/kg wet	4	533	---	95	33-120%	---	---	Q-41
4-Nitroaniline	468	107	213	ug/kg wet	4	533	---	88	51-125%	---	---	
Nitrobenzene	415	53.2	107	ug/kg wet	4	533	---	78	34-122%	---	---	
2,4-Dinitrotoluene	510	53.2	107	ug/kg wet	4	533	---	96	48-126%	---	---	
2,6-Dinitrotoluene	459	53.2	107	ug/kg wet	4	533	---	86	46-124%	---	---	
Benzoic acid	624	400	400	ug/kg wet	4	1070	---	58	10-140%	---	---	Q-31
Benzyl alcohol	415	26.7	53.2	ug/kg wet	4	533	---	78	29-122%	---	---	
Isophorone	408	13.3	26.7	ug/kg wet	4	533	---	76	30-122%	---	---	
Azobenzene (1,2-DPH)	395	13.3	26.7	ug/kg wet	4	533	---	74	39-125%	---	---	
Bis(2-Ethylhexyl) adipate	405	133	267	ug/kg wet	4	533	---	76	61-121%	---	---	
3,3'-Dichlorobenzidine	1860	107	213	ug/kg wet	4	1070	---	175	22-121%	---	---	Q-29, Q-41, Q-52
1,2-Dinitrobenzene	430	133	267	ug/kg wet	4	533	---	81	44-120%	---	---	
1,3-Dinitrobenzene	534	133	267	ug/kg wet	4	533	---	100	43-127%	---	---	Q-41
1,4-Dinitrobenzene	548	133	267	ug/kg wet	4	533	---	103	37-132%	---	---	Q-41
Pyridine	337	26.7	53.2	ug/kg wet	4	533	---	63	10-120%	---	---	
1,2-Dichlorobenzene	406	13.3	26.7	ug/kg wet	4	533	---	76	33-120%	---	---	
1,3-Dichlorobenzene	401	13.3	26.7	ug/kg wet	4	533	---	75	30-120%	---	---	
1,4-Dichlorobenzene	401	13.3	26.7	ug/kg wet	4	533	---	75	31-120%	---	---	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 80 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 4x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>81 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>85 %</i>		<i>33-122 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>87 %</i>		<i>54-127 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>84 %</i>		<i>35-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>106 %</i>		<i>39-132 %</i>		<i>"</i>						

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ANALYTICAL REPORT

Apex Laboratories, LLC

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3G1199 - 08 09 23 0710
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0614 - EPA 3546							Solid					
Duplicate (23G0614-DUP2)			Prepared: 07/21/23 08:30 Analyzed: 07/24/23 17:33									
QC Source Sample: Non-SDG (A3G1118-01RE2)												
Acenaphthene	ND	5.13	10.3	ug/kg dry	1	---	ND	---	---	---	30%	
Acenaphthylene	ND	5.13	10.3	ug/kg dry	1	---	ND	---	---	---	30%	
Anthracene	ND	5.13	10.3	ug/kg dry	1	---	ND	---	---	---	30%	
Benz(a)anthracene	ND	5.13	10.3	ug/kg dry	1	---	ND	---	---	---	30%	
Benzo(a)pyrene	ND	7.71	15.4	ug/kg dry	1	---	ND	---	---	---	30%	
Benzo(b)fluoranthene	ND	7.71	15.4	ug/kg dry	1	---	ND	---	---	---	30%	
Benzo(k)fluoranthene	ND	7.71	15.4	ug/kg dry	1	---	ND	---	---	---	30%	
Benzo(g,h,i)perylene	ND	5.13	10.3	ug/kg dry	1	---	ND	---	---	---	30%	
Chrysene	ND	5.13	10.3	ug/kg dry	1	---	ND	---	---	---	30%	
Dibenz(a,h)anthracene	ND	5.13	10.3	ug/kg dry	1	---	ND	---	---	---	30%	
Fluoranthene	ND	5.13	10.3	ug/kg dry	1	---	ND	---	---	---	30%	
Fluorene	ND	5.13	10.3	ug/kg dry	1	---	ND	---	---	---	30%	
Indeno(1,2,3-cd)pyrene	ND	5.13	10.3	ug/kg dry	1	---	ND	---	---	---	30%	
1-Methylnaphthalene	ND	10.3	20.6	ug/kg dry	1	---	ND	---	---	---	30%	
2-Methylnaphthalene	ND	10.3	20.6	ug/kg dry	1	---	ND	---	---	---	30%	
Naphthalene	16.6	10.3	20.6	ug/kg dry	1	---	40.8	---	---	84	30%	J, Q-05
Phenanthrene	ND	5.13	10.3	ug/kg dry	1	---	ND	---	---	---	30%	
Pyrene	ND	5.13	10.3	ug/kg dry	1	---	ND	---	---	---	30%	
Carbazole	ND	7.71	15.4	ug/kg dry	1	---	ND	---	---	---	30%	
Dibenzofuran	ND	5.13	10.3	ug/kg dry	1	---	ND	---	---	---	30%	
2-Chlorophenol	ND	25.7	51.3	ug/kg dry	1	---	ND	---	---	---	30%	
4-Chloro-3-methylphenol	ND	51.3	103	ug/kg dry	1	---	ND	---	---	---	30%	
2,4-Dichlorophenol	ND	25.7	51.3	ug/kg dry	1	---	ND	---	---	---	30%	
2,4-Dimethylphenol	ND	25.7	51.3	ug/kg dry	1	---	ND	---	---	---	30%	
2,4-Dinitrophenol	ND	128	257	ug/kg dry	1	---	ND	---	---	---	30%	
4,6-Dinitro-2-methylphenol	ND	128	257	ug/kg dry	1	---	ND	---	---	---	30%	
2-Methylphenol	ND	12.8	25.7	ug/kg dry	1	---	ND	---	---	---	30%	
3+4-Methylphenol(s)	ND	12.8	25.7	ug/kg dry	1	---	ND	---	---	---	30%	
2-Nitrophenol	ND	51.3	103	ug/kg dry	1	---	ND	---	---	---	30%	
4-Nitrophenol	ND	51.3	103	ug/kg dry	1	---	ND	---	---	---	30%	
Pentachlorophenol (PCP)	ND	51.3	103	ug/kg dry	1	---	ND	---	---	---	30%	
Phenol	ND	10.3	20.6	ug/kg dry	1	---	ND	---	---	---	30%	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3G1199 - 08 09 23 0710
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0614 - EPA 3546							Solid					
Duplicate (23G0614-DUP2)			Prepared: 07/21/23 08:30 Analyzed: 07/24/23 17:33									
QC Source Sample: Non-SDG (A3G1118-01RE2)												
2,3,4,6-Tetrachlorophenol	ND	25.7	51.3	ug/kg dry	1	---	ND	---	---	---	30%	
2,3,5,6-Tetrachlorophenol	ND	25.7	51.3	ug/kg dry	1	---	ND	---	---	---	30%	
2,4,5-Trichlorophenol	ND	25.7	51.3	ug/kg dry	1	---	ND	---	---	---	30%	
2,4,6-Trichlorophenol	ND	25.7	51.3	ug/kg dry	1	---	ND	---	---	---	30%	
Bis(2-ethylhexyl)phthalate	ND	77.1	154	ug/kg dry	1	---	ND	---	---	---	30%	
Butyl benzyl phthalate	ND	51.3	103	ug/kg dry	1	---	ND	---	---	---	30%	
Diethylphthalate	ND	51.3	103	ug/kg dry	1	---	ND	---	---	---	30%	
Dimethylphthalate	ND	51.3	103	ug/kg dry	1	---	ND	---	---	---	30%	
Di-n-butylphthalate	ND	51.3	103	ug/kg dry	1	---	ND	---	---	---	30%	
Di-n-octyl phthalate	ND	51.3	103	ug/kg dry	1	---	ND	---	---	---	30%	
N-Nitrosodimethylamine	ND	12.8	25.7	ug/kg dry	1	---	ND	---	---	---	30%	
N-Nitroso-di-n-propylamine	ND	12.8	25.7	ug/kg dry	1	---	ND	---	---	---	30%	
N-Nitrosodiphenylamine	ND	12.8	25.7	ug/kg dry	1	---	ND	---	---	---	30%	
Bis(2-Chloroethoxy) methane	ND	12.8	25.7	ug/kg dry	1	---	ND	---	---	---	30%	
Bis(2-Chloroethyl) ether	ND	12.8	25.7	ug/kg dry	1	---	ND	---	---	---	30%	
2,2'-Oxybis(1-Chloropropane)	ND	12.8	25.7	ug/kg dry	1	---	ND	---	---	---	30%	
Hexachlorobenzene	ND	5.13	10.3	ug/kg dry	1	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	12.8	25.7	ug/kg dry	1	---	ND	---	---	---	30%	
Hexachlorocyclopentadiene	ND	25.7	51.3	ug/kg dry	1	---	ND	---	---	---	30%	
Hexachloroethane	ND	12.8	25.7	ug/kg dry	1	---	ND	---	---	---	30%	
2-Chloronaphthalene	ND	5.13	10.3	ug/kg dry	1	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	59.7	12.8	25.7	ug/kg dry	1	---	60.7	---	---	2	30%	
4-Bromophenyl phenyl ether	ND	12.8	25.7	ug/kg dry	1	---	ND	---	---	---	30%	
4-Chlorophenyl phenyl ether	ND	12.8	25.7	ug/kg dry	1	---	ND	---	---	---	30%	
Aniline	ND	25.7	51.3	ug/kg dry	1	---	ND	---	---	---	30%	
4-Chloroaniline	ND	12.8	25.7	ug/kg dry	1	---	ND	---	---	---	30%	
2-Nitroaniline	ND	103	206	ug/kg dry	1	---	ND	---	---	---	30%	
3-Nitroaniline	ND	103	206	ug/kg dry	1	---	ND	---	---	---	30%	
4-Nitroaniline	ND	103	206	ug/kg dry	1	---	ND	---	---	---	30%	
Nitrobenzene	ND	51.3	103	ug/kg dry	1	---	ND	---	---	---	30%	
2,4-Dinitrotoluene	ND	51.3	103	ug/kg dry	1	---	ND	---	---	---	30%	
2,6-Dinitrotoluene	ND	51.3	103	ug/kg dry	1	---	ND	---	---	---	30%	
Benzoic acid	ND	644	1280	ug/kg dry	1	---	ND	---	---	---	30%	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3G1199 - 08 09 23 0710
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23G0614 - EPA 3546						Solid							
Duplicate (23G0614-DUP2)			Prepared: 07/21/23 08:30 Analyzed: 07/24/23 17:33										
QC Source Sample: Non-SDG (A3G1118-01RE2)													
Benzyl alcohol	ND	25.7	51.3	ug/kg dry	1	---	ND	---	---	---	30%		
Isophorone	ND	12.8	25.7	ug/kg dry	1	---	ND	---	---	---	30%		
Azobenzene (1,2-DPH)	ND	12.8	25.7	ug/kg dry	1	---	ND	---	---	---	30%		
Bis(2-Ethylhexyl) adipate	ND	128	257	ug/kg dry	1	---	ND	---	---	---	30%		
3,3'-Dichlorobenzidine	ND	103	206	ug/kg dry	1	---	ND	---	---	---	30%	Q-52	
1,2-Dinitrobenzene	ND	128	257	ug/kg dry	1	---	ND	---	---	---	30%		
1,3-Dinitrobenzene	ND	128	257	ug/kg dry	1	---	ND	---	---	---	30%		
1,4-Dinitrobenzene	ND	128	257	ug/kg dry	1	---	ND	---	---	---	30%		
Pyridine	ND	25.7	51.3	ug/kg dry	1	---	ND	---	---	---	30%		
1,2-Dichlorobenzene	60.9	12.8	25.7	ug/kg dry	1	---	63.1	---	---	4	30%		
1,3-Dichlorobenzene	79.3	12.8	25.7	ug/kg dry	1	---	83.1	---	---	5	30%		
1,4-Dichlorobenzene	35.9	12.8	25.7	ug/kg dry	1	---	36.0	---	---	0.2	30%		
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 20 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 1x</i>							<i>S-03</i>
<i>2-Fluorobiphenyl (Surr)</i>		<i>13 %</i>		<i>44-120 %</i>		<i>"</i>							<i>S-03</i>
<i>Phenol-d6 (Surr)</i>		<i>0.9 %</i>		<i>33-122 %</i>		<i>"</i>							<i>S-03</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>0.4 %</i>		<i>54-127 %</i>		<i>"</i>							<i>S-03</i>
<i>2-Fluorophenol (Surr)</i>		<i>1 %</i>		<i>35-120 %</i>		<i>"</i>							<i>S-03</i>
<i>2,4,6-Tribromophenol (Surr)</i>		<i>3 %</i>		<i>39-132 %</i>		<i>"</i>							<i>Q-41, S-03</i>

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0565 - EPA 3051A						Solid						
Blank (23G0565-BLK1)			Prepared: 07/20/23 07:10 Analyzed: 07/20/23 13:49									
EPA 6020B												
Arsenic	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Barium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	100	200	ug/kg wet	10	---	---	---	---	---	---	
Chromium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Lead	ND	100	200	ug/kg wet	10	---	---	---	---	---	---	
Mercury	ND	40.0	80.0	ug/kg wet	10	---	---	---	---	---	---	
Selenium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Silver	ND	100	200	ug/kg wet	10	---	---	---	---	---	---	
LCS (23G0565-BS1)												
										Prepared: 07/20/23 07:10 Analyzed: 07/20/23 13:54		
EPA 6020B												
Arsenic	49000	500	1000	ug/kg wet	10	50000	---	98	80-120%	---	---	
Barium	51900	500	1000	ug/kg wet	10	50000	---	104	80-120%	---	---	
Cadmium	48900	100	200	ug/kg wet	10	50000	---	98	80-120%	---	---	
Chromium	48500	500	1000	ug/kg wet	10	50000	---	97	80-120%	---	---	
Lead	51800	100	200	ug/kg wet	10	50000	---	104	80-120%	---	---	
Mercury	1010	40.0	80.0	ug/kg wet	10	1000	---	101	80-120%	---	---	
Selenium	25500	500	1000	ug/kg wet	10	25000	---	102	80-120%	---	---	
Silver	24900	100	200	ug/kg wet	10	25000	---	100	80-120%	---	---	
Duplicate (23G0565-DUP1)												
										Prepared: 07/20/23 07:10 Analyzed: 07/20/23 14:05		
QC Source Sample: FC-071923-2148 (A3G1199-01)												
EPA 6020B												
Arsenic	10300	1970	3940	ug/kg dry	10	---	8990	---	---	13	20%	CONT
Barium	218000	1970	3940	ug/kg dry	10	---	198000	---	---	10	20%	CONT
Cadmium	ND	394	788	ug/kg dry	10	---	ND	---	---	---	20%	CONT
Chromium	ND	1970	3940	ug/kg dry	10	---	ND	---	---	---	20%	CONT
Lead	ND	394	788	ug/kg dry	10	---	ND	---	---	---	20%	CONT
Mercury	ND	158	315	ug/kg dry	10	---	ND	---	---	---	20%	CONT
Selenium	ND	1970	3940	ug/kg dry	10	---	ND	---	---	---	20%	CONT
Silver	ND	394	788	ug/kg dry	10	---	ND	---	---	---	20%	CONT
Matrix Spike (23G0565-MS1)												
										Prepared: 07/20/23 07:10 Analyzed: 07/20/23 14:10		

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0565 - EPA 3051A						Solid						
Matrix Spike (23G0565-MS1)						Prepared: 07/20/23 07:10 Analyzed: 07/20/23 14:10						
QC Source Sample: FC-071923-2148 (A3G1199-01)												
EPA 6020B												
Arsenic	206000	2030	4050	ug/kg dry	10	203000	8990	97	75-125%	---	---	CONT
Barium	415000	2030	4050	ug/kg dry	10	203000	198000	107	75-125%	---	---	CONT
Cadmium	193000	405	810	ug/kg dry	10	203000	ND	95	75-125%	---	---	CONT
Chromium	193000	2030	4050	ug/kg dry	10	203000	ND	95	75-125%	---	---	CONT
Lead	204000	405	810	ug/kg dry	10	203000	ND	101	75-125%	---	---	CONT
Mercury	3950	162	324	ug/kg dry	10	4050	ND	98	75-125%	---	---	CONT
Selenium	98700	2030	4050	ug/kg dry	10	101000	ND	97	75-125%	---	---	CONT
Silver	97900	405	810	ug/kg dry	10	101000	ND	97	75-125%	---	---	CONT

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QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0784 - EPA 1311/3015A						Solid						
Blank (23G0784-BLK1)			Prepared: 07/25/23 15:24 Analyzed: 07/25/23 19:03									
<u>1311/6020B</u>												
Arsenic	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLPb
Barium	ND	2500	5000	ug/L	10	---	---	---	---	---	---	TCLPb
Cadmium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLPb
Chromium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLPb
Lead	ND	25.0	50.0	ug/L	10	---	---	---	---	---	---	TCLPb
Mercury	ND	3.75	7.00	ug/L	10	---	---	---	---	---	---	TCLPb
Selenium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLPb
Silver	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLPb
<hr/>												
LCS (23G0784-BS1)			Prepared: 07/25/23 15:24 Analyzed: 07/25/23 19:08									
<u>1311/6020B</u>												
Arsenic	5230	50.0	100	ug/L	10	5000	---	105	80-120%	---	---	TCLPb
Barium	10800	2500	5000	ug/L	10	10000	---	108	80-120%	---	---	TCLPb
Cadmium	1030	50.0	100	ug/L	10	1000	---	103	80-120%	---	---	TCLPb
Chromium	4930	50.0	100	ug/L	10	5000	---	99	80-120%	---	---	TCLPb
Lead	5350	25.0	50.0	ug/L	10	5000	---	107	80-120%	---	---	TCLPb
Mercury	102	3.75	7.00	ug/L	10	100	---	102	80-120%	---	---	TCLPb
Selenium	1070	50.0	100	ug/L	10	1000	---	107	80-120%	---	---	TCLPb
Silver	985	50.0	100	ug/L	10	1000	---	98	80-120%	---	---	TCLPb
<hr/>												
Duplicate (23G0784-DUP1)			Prepared: 07/25/23 15:24 Analyzed: 07/25/23 20:10									
<u>QC Source Sample: Non-SDG (A3G1249-01)</u>												
Arsenic	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	
Barium	ND	2500	5000	ug/L	10	---	ND	---	---	---	20%	
Cadmium	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	
Chromium	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	
Lead	32.4	25.0	50.0	ug/L	10	---	32.4	---	---	0.2	20%	J
Mercury	ND	3.75	7.00	ug/L	10	---	ND	---	---	---	20%	
Selenium	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	
Silver	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	
<hr/>												
Matrix Spike (23G0784-MS1)			Prepared: 07/25/23 15:24 Analyzed: 07/25/23 20:15									

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QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
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Batch 23G0784 - EPA 1311/3015A **Solid**

Matrix Spike (23G0784-MS1) Prepared: 07/25/23 15:24 Analyzed: 07/25/23 20:15

QC Source Sample: Non-SDG (A3G1249-01)

1311/6020B

Arsenic	5320	50.0	100	ug/L	10	5000	ND	106	50-150%	---	---	
Barium	11500	2500	5000	ug/L	10	10000	ND	115	50-150%	---	---	
Cadmium	1050	50.0	100	ug/L	10	1000	ND	105	50-150%	---	---	
Chromium	5030	50.0	100	ug/L	10	5000	ND	101	50-150%	---	---	
Lead	5560	25.0	50.0	ug/L	10	5000	32.4	111	50-150%	---	---	
Mercury	106	3.75	7.00	ug/L	10	100	ND	106	50-150%	---	---	
Selenium	1090	50.0	100	ug/L	10	1000	ND	109	50-150%	---	---	
Silver	1010	50.0	100	ug/L	10	1000	ND	101	50-150%	---	---	

Matrix Spike (23G0784-MS2) Prepared: 07/25/23 15:24 Analyzed: 07/25/23 19:18

QC Source Sample: Non-SDG (A3G0748-03)

1311/6020B

Arsenic	5170	50.0	100	ug/L	10	5000	ND	103	50-150%	---	---	COMP,TCLP _a
Barium	11000	2500	5000	ug/L	10	10000	ND	110	50-150%	---	---	COMP,TCLP _a
Cadmium	1020	50.0	100	ug/L	10	1000	ND	102	50-150%	---	---	COMP,TCLP _a
Chromium	4860	50.0	100	ug/L	10	5000	ND	97	50-150%	---	---	COMP,TCLP _a
Lead	5270	25.0	50.0	ug/L	10	5000	ND	105	50-150%	---	---	COMP,TCLP _a
Mercury	101	3.75	7.00	ug/L	10	100	ND	101	50-150%	---	---	COMP,TEMP,TCLP _a
Selenium	1070	50.0	100	ug/L	10	1000	ND	107	50-150%	---	---	COMP,TCLP _a
Silver	964	50.0	100	ug/L	10	1000	ND	96	50-150%	---	---	COMP,TCLP _a

Matrix Spike (23G0784-MS3) Prepared: 07/25/23 15:24 Analyzed: 07/25/23 19:39

QC Source Sample: FC-071923-2148 (A3G1199-01)

1311/6020B

Arsenic	5030	50.0	100	ug/L	10	5000	ND	101	50-150%	---	---	CONT
Barium	10400	2500	5000	ug/L	10	10000	ND	104	50-150%	---	---	CONT
Cadmium	996	50.0	100	ug/L	10	1000	ND	100	50-150%	---	---	CONT

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3G1199 - 08 09 23 0710
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0784 - EPA 1311/3015A						Solid						
Matrix Spike (23G0784-MS3)						Prepared: 07/25/23 15:24 Analyzed: 07/25/23 19:39						
<u>QC Source Sample: FC-071923-2148 (A3G1199-01)</u>												
Chromium	4720	50.0	100	ug/L	10	5000	ND	94	50-150%	---	---	CONT
Lead	5180	25.0	50.0	ug/L	10	5000	ND	104	50-150%	---	---	CONT
Mercury	101	3.75	7.00	ug/L	10	100	ND	101	50-150%	---	---	CONT
Selenium	1040	50.0	100	ug/L	10	1000	ND	104	50-150%	---	---	CONT
Silver	879	50.0	100	ug/L	10	1000	ND	88	50-150%	---	---	CONT

Matrix Spike (23G0784-MS4)						Prepared: 07/25/23 15:24 Analyzed: 07/25/23 19:49						
<u>QC Source Sample: Non-SDG (A3G1200-01)</u>												
<u>1311/6020B</u>												
Arsenic	5110	50.0	100	ug/L	10	5000	ND	102	50-150%	---	---	
Barium	10900	2500	5000	ug/L	10	10000	ND	109	50-150%	---	---	
Cadmium	1050	50.0	100	ug/L	10	1000	ND	105	50-150%	---	---	
Chromium	4860	50.0	100	ug/L	10	5000	ND	97	50-150%	---	---	
Lead	5470	25.0	50.0	ug/L	10	5000	ND	109	50-150%	---	---	
Mercury	105	3.75	7.00	ug/L	10	100	ND	105	50-150%	---	---	
Selenium	1060	50.0	100	ug/L	10	1000	ND	106	50-150%	---	---	
Silver	963	50.0	100	ug/L	10	1000	ND	96	50-150%	---	---	

Matrix Spike (23G0784-MS5)						Prepared: 07/25/23 15:24 Analyzed: 07/25/23 20:00						
<u>QC Source Sample: Non-SDG (A3G1242-02)</u>												
<u>1311/6020B</u>												
Arsenic	5120	50.0	100	ug/L	10	5000	ND	102	50-150%	---	---	CONT
Barium	11200	2500	5000	ug/L	10	10000	ND	112	50-150%	---	---	CONT
Cadmium	1020	50.0	100	ug/L	10	1000	ND	102	50-150%	---	---	CONT
Chromium	4820	50.0	100	ug/L	10	5000	ND	96	50-150%	---	---	CONT
Lead	5630	25.0	50.0	ug/L	10	5000	270	107	50-150%	---	---	CONT
Mercury	106	3.75	7.00	ug/L	10	100	ND	106	50-150%	---	---	CONT, TEMP
Selenium	1040	50.0	100	ug/L	10	1000	ND	104	50-150%	---	---	CONT
Silver	983	50.0	100	ug/L	10	1000	ND	98	50-150%	---	---	CONT

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3G1199 - 08 09 23 0710
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QUALITY CONTROL (QC) SAMPLE RESULTS

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0673 - ASTM D7511-12mod (S)						Soil						
Blank (23G0673-BLK1)						Prepared: 07/24/23 08:34 Analyzed: 07/24/23 14:32						
<u>D7511-12</u>												
Total Cyanide	ND	50.0	100	ug/kg wet	1	---	---	---	---	---	---	
LCS (23G0673-BS1)						Prepared: 07/24/23 08:34 Analyzed: 07/24/23 14:34						
<u>D7511-12</u>												
Total Cyanide	448	50.0	100	ug/kg wet	1	400	---	112	84-116%	---	---	
Matrix Spike (23G0673-MS1)						Prepared: 07/24/23 08:34 Analyzed: 07/24/23 14:42						
<u>QC Source Sample: Non-SDG (A3G1118-01)</u>												
<u>D7511-12</u>												
Total Cyanide	906	64.8	130	ug/kg dry	1	519	401	97	64-136%	---	---	
Matrix Spike Dup (23G0673-MSD1)						Prepared: 07/24/23 08:34 Analyzed: 07/24/23 14:46						
<u>QC Source Sample: Non-SDG (A3G1118-01)</u>												
Total Cyanide	901	64.7	129	ug/kg dry	1	518	401	97	64-136%	0.5	47%	

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Darwin Thomas, Business Development Director



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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23G0577 - Total Solids (Dry Weight) - 2022						Soil							
Duplicate (23G0577-DUP1)			Prepared: 07/20/23 09:33 Analyzed: 07/21/23 06:17						PRO				
<u>QC Source Sample: Non-SDG (A3G1122-20)</u>													
% Solids	99.5	---	1.00	%	1	---	99.7	---	---	0.1	10%		
Duplicate (23G0577-DUP2)			Prepared: 07/20/23 09:33 Analyzed: 07/21/23 06:17						PRO				
<u>QC Source Sample: Non-SDG (A3G1122-22)</u>													
% Solids	99.0	---	1.00	%	1	---	99.1	---	---	0.1	10%		
Duplicate (23G0577-DUP3)			Prepared: 07/20/23 09:33 Analyzed: 07/21/23 06:17						PRO				
<u>QC Source Sample: Non-SDG (A3G1122-24)</u>													
% Solids	99.5	---	1.00	%	1	---	99.6	---	---	0.1	10%		
Duplicate (23G0577-DUP4)			Prepared: 07/20/23 19:45 Analyzed: 07/21/23 06:17						PRO				
<u>QC Source Sample: Non-SDG (A3G1273-05)</u>													
% Solids	78.2	---	1.00	%	1	---	78.5	---	---	0.3	10%		
Duplicate (23G0577-DUP5)			Prepared: 07/20/23 19:45 Analyzed: 07/21/23 06:17						PRO				
<u>QC Source Sample: Non-SDG (A3G1273-06)</u>													
% Solids	79.0	---	1.00	%	1	---	79.0	---	---	0.04	10%		

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23G0724</u>							
A3G1199-01	Solid	NWTPH-Dx	07/19/23 03:35	07/24/23 17:08	10.4g/5mL	10g/5mL	0.96

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23G0582</u>							
A3G1199-01RE1	Solid	NWTPH-Gx (MS)	07/19/23 03:35	07/19/23 11:25	5.21g/5mL	5g/5mL	0.96

Volatile Organic Compounds by EPA 8260D

Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23G0582</u>							
A3G1199-01RE1	Solid	5035A/8260D	07/19/23 03:35	07/19/23 11:25	5.21g/5mL	5g/5mL	0.96

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Prep: EPA 1311/5030C TCLP Volatiles					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23G0708</u>							
A3G1199-01	Solid	1311/8260D	07/19/23 03:35	07/24/23 12:55	5mL/5mL	5mL/5mL	1.00

Semivolatile Organic Compounds by EPA 8270E

Prep: EPA 3546					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23G0614</u>							
A3G1199-01	Solid	EPA 8270E	07/19/23 03:35	07/21/23 08:30	5.65g/2mL	15g/2mL	2.65

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3051A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23G0565</u>							
A3G1199-01	Solid	EPA 6020B	07/19/23 03:35	07/20/23 07:10	0.469g/50mL	0.5g/50mL	1.07

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3G1199 - 08 09 23 0710
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SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3051A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor

TCLP Metals by EPA 6020B (ICPMS)

Prep: EPA 1311/3015A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23G0784</u>							
A3G1199-01	Solid	1311/6020B	07/19/23 03:35	07/25/23 15:24	10mL/50mL	10mL/50mL	1.00

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Prep: ASTM D7511-12mod (S)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23G0673</u>							
A3G1199-01RE1	Solid	D7511-12	07/19/23 03:35	07/24/23 08:34	2.5014g/50mL	2.5g/50mL	1.00

Percent Dry Weight

Prep: Total Solids (Dry Weight) - 2022					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23G0577</u>							
A3G1199-01	Solid	EPA 8000D	07/19/23 03:35	07/20/23 09:33			NA

TCLP Extraction by EPA 1311

Prep: EPA 1311 (TCLP)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23G0676</u>							
A3G1199-01	Solid	EPA 1311	07/19/23 03:35	07/24/23 17:36	100g/2000.3g	100g/2000g	NA

Prep: EPA 1311 TCLP/ZHE					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23G0594</u>							
A3G1199-01	Solid	EPA 1311 ZHE	07/19/23 03:35	07/20/23 14:31	25g/500.1g	25g/500g	NA

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2749 Lockport Road
Niagara Falls, NY 14305

Project: Gasco -- Filtercake
Project Number: 111323
Project Manager: Chip Byrd

Report ID:
A3G1199 - 08 09 23 0710

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- COMP Analyzed sample is a composite of discrete samples that was performed in the laboratory.
- CONT The Sample Container provided for this analysis was not provided by Apex Laboratories, and has not been verified as part of the Apex Quality System.
- F-13 The chromatographic pattern does not resemble the fuel standard used for quantitation
- J Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- PRO Sample has undergone sample processing prior to extraction and analysis.
- Q-05 Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- Q-29 Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
- Q-31 Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
- Q-41 Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- Q-52 Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
- Q-54 Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +1%. The results are reported as Estimated Values.
- Q-54a Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +4%. The results are reported as Estimated Values.
- Q-54b Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -3%. The results are reported as Estimated Values.
- Q-55 Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
- Q-56 Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260
- R-02 The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- S-03 Sample re-extract, or the analysis of an associated Batch QC sample, confirms surrogate failure due to sample matrix effect.
- S-05 Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- TCLP This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23G0594.
- TCLPa Limited sample volume. Leachate was prepared using less than the specified amount of sample per EPA 1311 or 1312. For consistency in leaching, the standard 20x ratio of sample to leachate fluid was maintained. Results may not meet regulatory requirements.
- TCLPb This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23G0676.
- TEMP Sample was received or stored outside of recommended temperature.

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<u>Sevenson Environmental Services, Inc.</u> 2749 Lockport Road Niagara Falls, NY 14305	Project: <u>Gasco -- Filtercake</u> Project Number: 111323 Project Manager: Chip Byrd	<u>Report ID:</u> A3G1199 - 08 09 23 0710
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V-15 Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.

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Darwin Thomas, Business Development Director



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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

- DET Analyte DETECTED at or above the detection or reporting limit.
- ND Analyte NOT DETECTED at or above the detection or reporting limit.
- NR Result Not Reported
- RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

- " dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
- " wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
- " " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

Results for Volatiles analyses on soils and sediments that are reported on a "dry weight" basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an "As Received" basis do not have the WMS correction applied, as dry weight was not performed.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

- " --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- " *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

- Standard practice is to evaluate the results from Blank QC Samples down to a level equal to 1/2 the Reporting Limit (RL).
 - For Blank hits falling between 1/2 the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
 - For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
- For further details, please request a copy of this document.
- Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.
- 'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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Table with 3 columns: Client (Sevenson Environmental Services, Inc.), Project (Gasco -- Filtercake), and Report ID (A3G1199 - 08 09 23 0710).

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Table with 6 columns: Matrix, Analysis, TNI_ID, Analyte, TNI_ID, Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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Handwritten signature of Darwin Thomas

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Sevenson Environmental Services, Inc.
 2749 Lockport Road
 Niagara Falls, NY 14305

Project: **Gasco -- Filtercake**
 Project Number: **111323**
 Project Manager: **Chip Byrd**

Report ID:
A3G1199 - 08 09 23 0710

COC ____ of ____

Lab # A3G1199

APEX LABS
 12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333
 Company: Sevenson Environmental Services, Inc.
 Address: 2749 Lockport Road, Niagara Falls, NY 14305

CHAIN OF CUSTODY

Project Mgr.: Chip Byrd
 Project Name: Gasco -- Filtercake
 Project # 111323

Phone: (718) 583-2754
 Fax: _____
 E-mail: wbyrd@sevenson.com

Sampled by: _____

ANALYSIS REQUEST

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	8260 VOCs	1311/8260 TCPL VOCs	8270D LL Full List	Dry Weight	Metals, RCRA 8	Metals, TPCL	Total Cyanide	NWTPH-DX	NWTPH-GX
FC-071923-2148		<u>7-19-23</u>	<u>2:35</u>	S	1	X	X	X	X	X	X	X	X	X

SPECIAL INSTRUCTIONS:

Normal Turn Around Time (TAT) = 6-10 Business Days

TAT Requested (circle): 1 DAY 2 DAY 3 DAY 4 DAY 5 DAY STD Other: _____

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature: <u>Chip Byrd</u> Date: <u>7-19-23</u>	RECEIVED BY: Signature: _____ Date: _____
Project Name: <u>Gasco -- Filtercake</u> Printed Name: <u>Chip Byrd</u> Company: <u>SE</u>	Printed Name: _____ Time: _____ Company: _____

Apex Laboratories

Darwin Thomas

Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. Project: Gasco -- Filtercake
2749 Lockport Road Project Number: 111323
Niagara Falls, NY 14305 Project Manager: Chip Byrd Report ID: A3G1199 - 08 09 23 0710

APEX LABS COOLER RECEIPT FORM

Client: Sevenson Environmental Services Inc - Element WO#: A3 G1199

Project/Project #: Gasco - Filtercake

Delivery Info:

Date/time received: 7/19/23 @ 950 By: EST

Delivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen Other

Cooler Inspection Date/time inspected: 7/19/23 @ 1041 By: EST

Chain of Custody included? Yes X No

Signed/dated by client? Yes X No

Table with 7 columns: Cooler #1 to Cooler #7. Rows include Temperature (25), Custody seals (N), Received on ice (Y), Temp. blanks (Y), Ice type (Gel), and Condition (In/Out).

Cooler out of temp? (N) Possible reason why:

Green dots applied to out of temperature samples? Yes/No

Out of temperature samples form initiated? Yes/No

Sample Inspection: Date/time inspected: 7/19/23 @ 1110 By: RHP

All samples intact? Yes X No Comments:

Bottle labels/COCs agree? Yes No X Comments: Cont. Reads #2148

COC/container discrepancies form initiated? Yes No X

Containers/volumes received appropriate for analysis? Yes X No Comments:

Do VOA vials have visible headspace? Yes No NA X

Comments:

Water samples: pH checked: Yes No NA X pH appropriate? Yes No NA X

Comments:

Additional information:

Labeled by: RHP Witness: DJS Cooler Inspected by: RHP

Form Y-003 R-00

Apex Laboratories

Signature of Darwin Thomas

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Friday, September 8, 2023

Chip Byrd
Sevenson Environmental Services, Inc.
2749 Lockport Road
Niagara Falls, NY 14305

RE: A3H1300 - Gasco -- Filtercake - 111323

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3H1300, which was received by the laboratory on 8/23/2023 at 9:55:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information
Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.
(See Cooler Receipt Form for details)
Default Cooler 1.6 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report. All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

Darwin Thomas signature

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3H1300 - 09 08 23 0728
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FC-082223-2167	A3H1300-01	Solid	08/22/23 00:00	08/23/23 09:55

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3H1300 - 09 08 23 0728
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ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
FC-082223-2167 (A3H1300-01)				Matrix: Solid		Batch: 23H1010		CONT	
Diesel	3150000	358000	716000	ug/kg dry	10	08/29/23 01:28	NWTPH-Dx	F-13	
Oil	ND	716000	1430000	ug/kg dry	10	08/29/23 01:28	NWTPH-Dx		
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 96 %</i>		<i>Limits: 50-150 %</i>		<i>10</i>	<i>08/29/23 01:28</i>	<i>NWTPH-Dx</i>	<i>S-05</i>

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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-082223-2167 (A3H1300-01)				Matrix: Solid		Batch: 23H0884		V-15
Gasoline Range Organics	203000	20300	40500	ug/kg dry	50	08/24/23 22:04	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 106 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	08/24/23 22:04	NWTPH-Gx (MS)	
<i>1,4-Difluorobenzene (Sur)</i>			<i>99 %</i>	<i>50-150 %</i>	<i>1</i>	08/24/23 22:04	NWTPH-Gx (MS)	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3H1300 - 09 08 23 0728
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-082223-2167 (A3H1300-01)				Matrix: Solid		Batch: 23H0884		V-15
Acetone	ND	4050	8110	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
Acrylonitrile	ND	405	811	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
Benzene	114	40.5	81.1	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
Bromobenzene	ND	101	203	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
Bromochloromethane	ND	203	405	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
Bromodichloromethane	ND	203	405	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
Bromoform	ND	405	811	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
Bromomethane	ND	4050	4050	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
2-Butanone (MEK)	ND	2030	4050	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
n-Butylbenzene	ND	203	405	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
sec-Butylbenzene	ND	203	405	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
tert-Butylbenzene	ND	203	405	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
Carbon disulfide	ND	2030	4050	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
Carbon tetrachloride	ND	203	405	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
Chlorobenzene	ND	101	203	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
Chloroethane	ND	2030	4050	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
Chloroform	ND	203	405	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
Chloromethane	ND	1010	2030	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
2-Chlorotoluene	ND	203	405	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
4-Chlorotoluene	ND	203	405	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
Dibromochloromethane	ND	405	811	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	1010	2030	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	203	405	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
Dibromomethane	ND	203	405	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
1,2-Dichlorobenzene	ND	101	203	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
1,3-Dichlorobenzene	ND	101	203	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
1,4-Dichlorobenzene	ND	101	203	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
Dichlorodifluoromethane	ND	405	811	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
1,1-Dichloroethane	ND	101	203	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	101	203	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
1,1-Dichloroethene	ND	101	203	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
cis-1,2-Dichloroethene	ND	101	203	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
trans-1,2-Dichloroethene	ND	101	203	ug/kg dry	50	08/24/23 22:04	5035A/8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
 Tigard, OR 97223
 503-718-2323
 ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3H1300 - 09 08 23 0728
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-082223-2167 (A3H1300-01)				Matrix: Solid		Batch: 23H0884		V-15
1,2-Dichloropropane	ND	101	203	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
1,3-Dichloropropane	ND	203	405	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
2,2-Dichloropropane	ND	203	405	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
1,1-Dichloropropene	ND	203	405	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
cis-1,3-Dichloropropene	ND	203	405	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
trans-1,3-Dichloropropene	ND	203	405	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
Ethylbenzene	ND	101	203	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
Hexachlorobutadiene	ND	405	811	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
2-Hexanone	ND	2030	4050	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
Isopropylbenzene	ND	203	405	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
4-Isopropyltoluene	ND	203	405	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
Methylene chloride	ND	2030	4050	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
4-Methyl-2-pentanone (MIBK)	ND	2030	4050	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	203	405	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
Naphthalene	969	405	811	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
n-Propylbenzene	ND	101	203	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
Styrene	ND	203	405	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	101	203	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
1,1,1,2,2-Tetrachloroethane	ND	203	405	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
Tetrachloroethene (PCE)	ND	101	203	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
Toluene	ND	203	405	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
1,2,3-Trichlorobenzene	ND	1010	2030	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
1,2,4-Trichlorobenzene	ND	1010	2030	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
1,1,1-Trichloroethane	ND	101	203	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
1,1,2-Trichloroethane	ND	101	203	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
Trichloroethene (TCE)	ND	101	203	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
Trichlorofluoromethane	ND	811	811	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
1,2,3-Trichloropropane	ND	203	405	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
1,2,4-Trimethylbenzene	373	203	405	ug/kg dry	50	08/24/23 22:04	5035A/8260D	J
1,3,5-Trimethylbenzene	ND	203	405	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
Vinyl chloride	ND	101	203	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
m,p-Xylene	ND	203	405	ug/kg dry	50	08/24/23 22:04	5035A/8260D	
o-Xylene	ND	101	203	ug/kg dry	50	08/24/23 22:04	5035A/8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3H1300 - 09 08 23 0728
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-082223-2167 (A3H1300-01)				Matrix: Solid		Batch: 23H0884		V-15
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>08/24/23 22:04</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>	<i>1</i>	<i>08/24/23 22:04</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>79-120 %</i>	<i>1</i>	<i>08/24/23 22:04</i>	<i>5035A/8260D</i>	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3H1300 - 09 08 23 0728
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

ANALYTICAL SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-082223-2167 (A3H1300-01)				Matrix: Solid		Batch: 23H0939		CONT
Benzene	ND	6.25	12.5	ug/L	50	08/25/23 12:50	1311/8260D	
2-Butanone (MEK)	ND	250	500	ug/L	50	08/25/23 12:50	1311/8260D	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	08/25/23 12:50	1311/8260D	
Chlorobenzene	ND	12.5	25.0	ug/L	50	08/25/23 12:50	1311/8260D	
Chloroform	ND	25.0	50.0	ug/L	50	08/25/23 12:50	1311/8260D	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	08/25/23 12:50	1311/8260D	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	08/25/23 12:50	1311/8260D	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	08/25/23 12:50	1311/8260D	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	08/25/23 12:50	1311/8260D	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	08/25/23 12:50	1311/8260D	
Vinyl chloride	ND	12.5	25.0	ug/L	50	08/25/23 12:50	1311/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 97 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>08/25/23 12:50</i>	<i>1311/8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>104 %</i>		<i>80-120 %</i>		<i>1</i>	<i>08/25/23 12:50</i>	<i>1311/8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>1</i>	<i>08/25/23 12:50</i>	<i>1311/8260D</i>

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3H1300 - 09 08 23 0728
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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-082223-2167 (A3H1300-01)				Matrix: Solid		Batch: 23H1038		CONT
Acenaphthene	22200	197	396	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Acenaphthylene	ND	2460	2460	ug/kg dry	40	08/29/23 15:34	EPA 8270E	R-02
Anthracene	25900	197	396	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Benz(a)anthracene	16600	197	396	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Benzo(a)pyrene	18400	297	593	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Benzo(b)fluoranthene	14900	297	593	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Benzo(k)fluoranthene	5150	297	593	ug/kg dry	40	08/29/23 15:34	EPA 8270E	M-05
Benzo(g,h,i)perylene	11300	197	396	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Chrysene	22200	197	396	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Dibenz(a,h)anthracene	1100	197	396	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Fluoranthene	80000	197	396	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Fluorene	18000	197	396	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Indeno(1,2,3-cd)pyrene	8700	197	396	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
1-Methylnaphthalene	3220	396	791	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
2-Methylnaphthalene	523	396	791	ug/kg dry	40	08/29/23 15:34	EPA 8270E	J
Naphthalene	ND	396	791	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Phenanthrene	113000	197	396	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Pyrene	93400	197	396	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Carbazole	ND	668	668	ug/kg dry	40	08/29/23 15:34	EPA 8270E	R-02
Dibenzofuran	1520	197	396	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
2-Chlorophenol	ND	989	1970	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
4-Chloro-3-methylphenol	ND	1970	3960	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
2,4-Dichlorophenol	ND	989	1970	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
2,4-Dimethylphenol	ND	989	1970	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
2,4-Dinitrophenol	ND	4940	9890	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	4940	9890	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
2-Methylphenol	ND	494	989	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
3+4-Methylphenol(s)	ND	494	989	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
2-Nitrophenol	ND	1970	3960	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
4-Nitrophenol	ND	4110	4110	ug/kg dry	40	08/29/23 15:34	EPA 8270E	R-02
Pentachlorophenol (PCP)	ND	1970	3960	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Phenol	ND	396	791	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	989	1970	ug/kg dry	40	08/29/23 15:34	EPA 8270E	

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3H1300 - 09 08 23 0728
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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-082223-2167 (A3H1300-01)				Matrix: Solid		Batch: 23H1038		CONT
2,3,5,6-Tetrachlorophenol	ND	989	1970	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
2,4,5-Trichlorophenol	ND	989	1970	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
2,4,6-Trichlorophenol	ND	989	1970	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	2970	5930	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Butyl benzyl phthalate	ND	1970	3960	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Diethylphthalate	ND	1970	3960	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Dimethylphthalate	ND	1970	3960	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Di-n-butylphthalate	ND	1970	3960	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Di-n-octyl phthalate	ND	1970	3960	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
N-Nitrosodimethylamine	ND	494	989	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	494	989	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
N-Nitrosodiphenylamine	ND	3590	3590	ug/kg dry	40	08/29/23 15:34	EPA 8270E	R-02
Bis(2-Chloroethoxy) methane	ND	494	989	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	494	989	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	494	989	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Hexachlorobenzene	ND	197	396	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Hexachlorobutadiene	ND	494	989	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Hexachlorocyclopentadiene	ND	989	1970	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Hexachloroethane	ND	494	989	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
2-Chloronaphthalene	ND	197	396	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
1,2,4-Trichlorobenzene	ND	494	989	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
4-Bromophenyl phenyl ether	ND	494	989	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	494	989	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Aniline	ND	989	1970	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
4-Chloroaniline	ND	494	989	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
2-Nitroaniline	ND	3960	7910	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
3-Nitroaniline	ND	3960	7910	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
4-Nitroaniline	ND	3960	7910	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Nitrobenzene	ND	1970	3960	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
2,4-Dinitrotoluene	ND	3960	3960	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
2,6-Dinitrotoluene	ND	1970	3960	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Benzoic acid	ND	24800	49400	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Benzyl alcohol	ND	989	1970	ug/kg dry	40	08/29/23 15:34	EPA 8270E	

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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-082223-2167 (A3H1300-01)				Matrix: Solid		Batch: 23H1038		CONT
Isophorone	ND	494	989	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Azobenzene (1,2-DPH)	ND	494	989	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	4940	9890	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
3,3'-Dichlorobenzidine	ND	3960	7910	ug/kg dry	40	08/29/23 15:34	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	4940	9890	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
1,3-Dinitrobenzene	ND	4940	9890	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
1,4-Dinitrobenzene	ND	4940	9890	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
Pyridine	ND	989	1970	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
1,2-Dichlorobenzene	ND	494	989	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
1,3-Dichlorobenzene	ND	494	989	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
1,4-Dichlorobenzene	ND	494	989	ug/kg dry	40	08/29/23 15:34	EPA 8270E	
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>			<i>Recovery: 72 %</i>	<i>Limits: 37-122 %</i>	<i>40</i>	<i>08/29/23 15:34</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>2-Fluorobiphenyl (Surr)</i>			<i>85 %</i>	<i>44-120 %</i>	<i>40</i>	<i>08/29/23 15:34</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>Phenol-d6 (Surr)</i>			<i>65 %</i>	<i>33-122 %</i>	<i>40</i>	<i>08/29/23 15:34</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>			<i>98 %</i>	<i>54-127 %</i>	<i>40</i>	<i>08/29/23 15:34</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>2-Fluorophenol (Surr)</i>			<i>57 %</i>	<i>35-120 %</i>	<i>40</i>	<i>08/29/23 15:34</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>2,4,6-Tribromophenol (Surr)</i>			<i>108 %</i>	<i>39-132 %</i>	<i>40</i>	<i>08/29/23 15:34</i>	<i>EPA 8270E</i>	<i>S-05</i>

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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
FC-082223-2167 (A3H1300-01)				Matrix: Solid					
Batch: 2310093									
Arsenic	7680	1960	3920	ug/kg dry	10	09/05/23 21:22	EPA 6020B	CONT	
Barium	175000	1960	3920	ug/kg dry	10	09/05/23 21:22	EPA 6020B	CONT	
Cadmium	ND	392	784	ug/kg dry	10	09/05/23 21:22	EPA 6020B	CONT	
Chromium	ND	1960	3920	ug/kg dry	10	09/05/23 21:22	EPA 6020B	CONT	
Lead	ND	392	784	ug/kg dry	10	09/05/23 21:22	EPA 6020B	CONT	
Mercury	ND	157	314	ug/kg dry	10	09/05/23 21:22	EPA 6020B	CONT	
Silver	ND	392	784	ug/kg dry	10	09/05/23 21:22	EPA 6020B	CONT	
FC-082223-2167 (A3H1300-01RE1)				Matrix: Solid					
Batch: 2310093									
Selenium	ND	1960	3920	ug/kg dry	10	09/06/23 11:48	EPA 6020B	CONT	

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ANALYTICAL SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
FC-082223-2167 (A3H1300-01)				Matrix: Solid					
Batch: 2310035									
Arsenic	ND	0.0500	0.100	mg/L	10	09/01/23 18:57	1311/6020B	CONT	
Barium	ND	2.50	5.00	mg/L	10	09/01/23 18:57	1311/6020B	CONT	
Cadmium	ND	0.0500	0.100	mg/L	10	09/01/23 18:57	1311/6020B	CONT	
Chromium	ND	0.100	0.200	mg/L	10	09/01/23 18:57	1311/6020B	CONT	
Lead	ND	0.0250	0.0500	mg/L	10	09/01/23 18:57	1311/6020B	CONT	
Mercury	ND	0.00375	0.00700	mg/L	10	09/01/23 18:57	1311/6020B	CONT	
Selenium	ND	0.0500	0.100	mg/L	10	09/01/23 18:57	1311/6020B	CONT	
Silver	ND	0.0500	0.100	mg/L	10	09/01/23 18:57	1311/6020B	CONT	

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ANALYTICAL SAMPLE RESULTS

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-082223-2167 (A3H1300-01)				Matrix: Solid		Batch: 23H1057		CONT
Total Cyanide	6620	926	1850	ug/kg dry	5	08/31/23 17:17	D7511-12	Q-42

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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-082223-2167 (A3H1300-01)				Matrix: Solid		Batch: 23H0895		CONT
% Solids	26.9	1.00	1.00	%	1	08/25/23 07:42	EPA 8000D	

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ANALYTICAL SAMPLE RESULTS

TCLP Extraction by EPA 1311 (ZHE)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-082223-2167 (A3H1300-01)				Matrix: Solid		Batch: 23H0911		CONT
TCLP ZHE Extraction	0.00			N/A	1	08/24/23 14:08	EPA 1311 ZHE	
TCLP Extraction	PREP			N/A	1	08/30/23 14:52	EPA 1311	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H1010 - EPA 3546 (Fuels)						Solid						
Blank (23H1010-BLK1)			Prepared: 08/28/23 12:00 Analyzed: 08/28/23 22:43									
<u>NWTPH-Dx</u>												
Diesel	ND	10000	20000	ug/kg wet	1	---	---	---	---	---	---	
Oil	ND	20000	40000	ug/kg wet	1	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 89 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
LCS (23H1010-BS1)			Prepared: 08/28/23 12:00 Analyzed: 08/28/23 23:04									
<u>NWTPH-Dx</u>												
Diesel	105000	10000	20000	ug/kg wet	1	125000	---	84	38-132%	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 87 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
Duplicate (23H1010-DUP2)			Prepared: 08/28/23 12:00 Analyzed: 08/29/23 10:36									
<u>QC Source Sample: Non-SDG (A3H1207-33RE1)</u>												
Diesel	ND	94800	190000	ug/kg wet	2	---	ND	---	---	---	30%	
Oil	3420000	190000	379000	ug/kg wet	2	---	990000	---	---	110	30%	F-03, Q-04
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 97 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 2x</i>						<i>S-05</i>

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0884 - EPA 5035A						Soil						
Blank (23H0884-BLK1)			Prepared: 08/24/23 10:30 Analyzed: 08/24/23 11:50									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	2500	5000	ug/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery:	103 %	Limits:	50-150 %	Dilution:	1x					
1,4-Difluorobenzene (Sur)			102 %		50-150 %		"					
LCS (23H0884-BS2)			Prepared: 08/24/23 10:30 Analyzed: 08/24/23 11:24									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	26700	2500	5000	ug/kg wet	50	25000	---	107	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery:	102 %	Limits:	50-150 %	Dilution:	1x					
1,4-Difluorobenzene (Sur)			101 %		50-150 %		"					
Duplicate (23H0884-DUP1)			Prepared: 08/11/23 12:41 Analyzed: 08/24/23 15:14									
<u>QC Source Sample: Non-SDG (A3H1025-02)</u>												
Gasoline Range Organics	1370000	10900	21900	ug/kg dry	200	---	1490000	---	---	8	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery:	106 %	Limits:	50-150 %	Dilution:	1x					
1,4-Difluorobenzene (Sur)			102 %		50-150 %		"					
Duplicate (23H0884-DUP2)			Prepared: 08/23/23 18:20 Analyzed: 08/24/23 20:47									
<u>QC Source Sample: Non-SDG (A3H1322-09)</u>												
Gasoline Range Organics	1320000	40700	81500	ug/kg dry	500	---	1360000	---	---	3	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery:	102 %	Limits:	50-150 %	Dilution:	1x					
1,4-Difluorobenzene (Sur)			99 %		50-150 %		"					

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0884 - EPA 5035A						Soil						
Blank (23H0884-BLK1)			Prepared: 08/24/23 10:30 Analyzed: 08/24/23 11:50									
<u>5035A/8260D</u>												
Acetone	ND	500	1000	ug/kg wet	50	---	---	---	---	---	---	
Acrylonitrile	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Benzene	ND	5.00	10.0	ug/kg wet	50	---	---	---	---	---	---	
Bromobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Bromochloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromodichloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromoform	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Bromomethane	ND	500	500	ug/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
n-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Carbon disulfide	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Chloroethane	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chloromethane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromochloromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromomethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3H1300 - 09 08 23 0728
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0884 - EPA 5035A						Soil						
Blank (23H0884-BLK1)			Prepared: 08/24/23 10:30 Analyzed: 08/24/23 11:50									
1,2-Dichloropropane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Methylene chloride	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Styrene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	100	100	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 104 % Limits: 80-120 % Dilution: 1x

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3H1300 - 09 08 23 0728
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0884 - EPA 5035A						Soil						
Blank (23H0884-BLK1)						Prepared: 08/24/23 10:30 Analyzed: 08/24/23 11:50						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>79-120 %</i>		<i>"</i>						

LCS (23H0884-BS1)						Prepared: 08/24/23 10:30 Analyzed: 08/24/23 10:59						
5035A/8260D												
Acetone	1840	500	1000	ug/kg wet	50	2000	---	92	80-120%	---	---	
Acrylonitrile	1020	50.0	100	ug/kg wet	50	1000	---	102	80-120%	---	---	
Benzene	998	5.00	10.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Bromobenzene	982	12.5	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Bromochloromethane	967	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
Bromodichloromethane	1020	25.0	50.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
Bromoform	924	50.0	100	ug/kg wet	50	1000	---	92	80-120%	---	---	
Bromomethane	1110	500	500	ug/kg wet	50	1000	---	111	80-120%	---	---	
2-Butanone (MEK)	1970	250	500	ug/kg wet	50	2000	---	99	80-120%	---	---	
n-Butylbenzene	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
sec-Butylbenzene	1020	25.0	50.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
tert-Butylbenzene	938	25.0	50.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
Carbon disulfide	959	250	500	ug/kg wet	50	1000	---	96	80-120%	---	---	
Carbon tetrachloride	1020	25.0	50.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
Chlorobenzene	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Chloroethane	1200	250	500	ug/kg wet	50	1000	---	120	80-120%	---	---	
Chloroform	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Chloromethane	818	125	250	ug/kg wet	50	1000	---	82	80-120%	---	---	
2-Chlorotoluene	972	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
4-Chlorotoluene	962	25.0	50.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
Dibromochloromethane	966	50.0	100	ug/kg wet	50	1000	---	97	80-120%	---	---	
1,2-Dibromo-3-chloropropane	899	125	250	ug/kg wet	50	1000	---	90	80-120%	---	---	
1,2-Dibromoethane (EDB)	1030	25.0	50.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
Dibromomethane	1030	25.0	50.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
1,2-Dichlorobenzene	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
1,3-Dichlorobenzene	1000	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
1,4-Dichlorobenzene	996	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Dichlorodifluoromethane	1060	50.0	100	ug/kg wet	50	1000	---	106	80-120%	---	---	
1,1-Dichloroethane	980	12.5	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3H1300 - 09 08 23 0728
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0884 - EPA 5035A						Soil						
LCS (23H0884-BS1)			Prepared: 08/24/23 10:30 Analyzed: 08/24/23 10:59									
1,2-Dichloroethane (EDC)	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
1,1-Dichloroethene	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
cis-1,2-Dichloroethene	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
trans-1,2-Dichloroethene	990	12.5	25.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
1,2-Dichloropropane	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
1,3-Dichloropropane	1000	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
2,2-Dichloropropane	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,1-Dichloropropene	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
cis-1,3-Dichloropropene	1020	25.0	50.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
trans-1,3-Dichloropropene	1000	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Ethylbenzene	983	12.5	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Hexachlorobutadiene	1060	50.0	100	ug/kg wet	50	1000	---	106	80-120%	---	---	
2-Hexanone	1780	250	500	ug/kg wet	50	2000	---	89	80-120%	---	---	
Isopropylbenzene	990	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
4-Isopropyltoluene	1030	25.0	50.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
Methylene chloride	1080	250	500	ug/kg wet	50	1000	---	108	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	1730	250	500	ug/kg wet	50	2000	---	87	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	966	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
Naphthalene	980	50.0	100	ug/kg wet	50	1000	---	98	80-120%	---	---	
n-Propylbenzene	986	12.5	25.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
Styrene	985	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
1,1,1,2-Tetrachloroethane	978	12.5	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
1,1,2,2-Tetrachloroethane	986	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
Tetrachloroethene (PCE)	1060	12.5	25.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
Toluene	995	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
1,2,3-Trichlorobenzene	1030	125	250	ug/kg wet	50	1000	---	103	80-120%	---	---	
1,2,4-Trichlorobenzene	994	125	250	ug/kg wet	50	1000	---	99	80-120%	---	---	
1,1,1-Trichloroethane	1060	12.5	25.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
1,1,2-Trichloroethane	1040	12.5	25.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Trichloroethene (TCE)	1050	12.5	25.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
Trichlorofluoromethane	324	100	100	ug/kg wet	50	1000	---	32	80-120%	---	---	Q-55
1,2,3-Trichloropropane	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,2,4-Trimethylbenzene	992	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
1,3,5-Trimethylbenzene	1000	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3H1300 - 09 08 23 0728
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0884 - EPA 5035A						Soil						
LCS (23H0884-BS1)						Prepared: 08/24/23 10:30 Analyzed: 08/24/23 10:59						
Vinyl chloride	1110	12.5	25.0	ug/kg wet	50	1000	---	111	80-120%	---	---	
m,p-Xylene	1990	25.0	50.0	ug/kg wet	50	2000	---	99	80-120%	---	---	
o-Xylene	962	12.5	25.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (23H0884-DUP1)						Prepared: 08/11/23 12:41 Analyzed: 08/24/23 15:14						
QC Source Sample: Non-SDG (A3H1025-02)												
Acetone	ND	2190	4370	ug/kg dry	200	---	ND	---	---	---	30%	
Acrylonitrile	ND	219	437	ug/kg dry	200	---	ND	---	---	---	30%	
Benzene	ND	21.9	43.7	ug/kg dry	200	---	ND	---	---	---	30%	
Bromobenzene	ND	54.7	109	ug/kg dry	200	---	ND	---	---	---	30%	
Bromochloromethane	ND	109	219	ug/kg dry	200	---	ND	---	---	---	30%	
Bromodichloromethane	ND	109	219	ug/kg dry	200	---	ND	---	---	---	30%	
Bromoform	ND	219	437	ug/kg dry	200	---	ND	---	---	---	30%	
Bromomethane	ND	2190	2190	ug/kg dry	200	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	1090	2190	ug/kg dry	200	---	ND	---	---	---	30%	
n-Butylbenzene	3150	109	219	ug/kg dry	200	---	3240	---	---	3	30%	M-02
sec-Butylbenzene	2120	109	219	ug/kg dry	200	---	2110	---	---	0.2	30%	
tert-Butylbenzene	ND	109	219	ug/kg dry	200	---	ND	---	---	---	30%	
Carbon disulfide	ND	1090	2190	ug/kg dry	200	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	109	219	ug/kg dry	200	---	ND	---	---	---	30%	
Chlorobenzene	ND	54.7	109	ug/kg dry	200	---	ND	---	---	---	30%	
Chloroethane	ND	1090	2190	ug/kg dry	200	---	ND	---	---	---	30%	
Chloroform	ND	109	219	ug/kg dry	200	---	ND	---	---	---	30%	
Chloromethane	ND	547	1090	ug/kg dry	200	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	109	219	ug/kg dry	200	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	109	219	ug/kg dry	200	---	ND	---	---	---	30%	
Dibromochloromethane	ND	219	437	ug/kg dry	200	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	547	1090	ug/kg dry	200	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	109	219	ug/kg dry	200	---	ND	---	---	---	30%	
Dibromomethane	ND	109	219	ug/kg dry	200	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	54.7	109	ug/kg dry	200	---	ND	---	---	---	30%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0884 - EPA 5035A						Soil						
Duplicate (23H0884-DUP1)			Prepared: 08/11/23 12:41 Analyzed: 08/24/23 15:14									
QC Source Sample: Non-SDG (A3H1025-02)												
1,3-Dichlorobenzene	ND	54.7	109	ug/kg dry	200	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	54.7	109	ug/kg dry	200	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	219	437	ug/kg dry	200	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	54.7	109	ug/kg dry	200	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	54.7	109	ug/kg dry	200	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	54.7	109	ug/kg dry	200	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	54.7	109	ug/kg dry	200	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	54.7	109	ug/kg dry	200	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	54.7	109	ug/kg dry	200	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	109	219	ug/kg dry	200	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	109	219	ug/kg dry	200	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	109	219	ug/kg dry	200	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	109	219	ug/kg dry	200	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	109	219	ug/kg dry	200	---	ND	---	---	---	30%	
Ethylbenzene	1240	54.7	109	ug/kg dry	200	---	1310	---	---	5	30%	
Hexachlorobutadiene	ND	219	437	ug/kg dry	200	---	ND	---	---	---	30%	
2-Hexanone	ND	1090	2190	ug/kg dry	200	---	ND	---	---	---	30%	
Isopropylbenzene	862	109	219	ug/kg dry	200	---	888	---	---	3	30%	
4-Isopropyltoluene	2270	109	219	ug/kg dry	200	---	2290	---	---	1	30%	M-02
Methylene chloride	ND	1090	2190	ug/kg dry	200	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	2190	2190	ug/kg dry	200	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	109	219	ug/kg dry	200	---	ND	---	---	---	30%	
Naphthalene	3660	219	437	ug/kg dry	200	---	3870	---	---	6	30%	
n-Propylbenzene	2600	54.7	109	ug/kg dry	200	---	2670	---	---	2	30%	
Styrene	ND	109	219	ug/kg dry	200	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	54.7	109	ug/kg dry	200	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	1530	1530	ug/kg dry	200	---	ND	---	---	---	30%	R-02
Tetrachloroethene (PCE)	ND	54.7	109	ug/kg dry	200	---	ND	---	---	---	30%	
Toluene	203	109	219	ug/kg dry	200	---	210	---	---	3	30%	J
1,2,3-Trichlorobenzene	ND	547	1090	ug/kg dry	200	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	547	1090	ug/kg dry	200	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	54.7	109	ug/kg dry	200	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	1090	1090	ug/kg dry	200	---	ND	---	---	---	30%	R-02

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3H1300 - 09 08 23 0728
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0884 - EPA 5035A						Soil						
Duplicate (23H0884-DUP1)			Prepared: 08/11/23 12:41 Analyzed: 08/24/23 15:14									
QC Source Sample: Non-SDG (A3H1025-02)												
Trichloroethene (TCE)	ND	54.7	109	ug/kg dry	200	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	437	437	ug/kg dry	200	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	1090	1090	ug/kg dry	200	---	ND	---	---	---	30%	R-02
1,2,4-Trimethylbenzene	17600	109	219	ug/kg dry	200	---	18300	---	---	4	30%	
1,3,5-Trimethylbenzene	5820	109	219	ug/kg dry	200	---	6000	---	---	3	30%	
Vinyl chloride	ND	54.7	109	ug/kg dry	200	---	ND	---	---	---	30%	
m,p-Xylene	5960	109	219	ug/kg dry	200	---	6360	---	---	6	30%	
o-Xylene	4250	54.7	109	ug/kg dry	200	---	4500	---	---	6	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (23H0884-DUP2)						Prepared: 08/23/23 18:20 Analyzed: 08/24/23 20:47						V-15
QC Source Sample: Non-SDG (A3H1322-09)												
Acetone	ND	8150	16300	ug/kg dry	500	---	ND	---	---	---	30%	
Acrylonitrile	ND	815	1630	ug/kg dry	500	---	ND	---	---	---	30%	
Benzene	ND	81.5	163	ug/kg dry	500	---	ND	---	---	---	30%	
Bromobenzene	ND	204	407	ug/kg dry	500	---	ND	---	---	---	30%	
Bromochloromethane	ND	407	815	ug/kg dry	500	---	ND	---	---	---	30%	
Bromodichloromethane	ND	407	815	ug/kg dry	500	---	ND	---	---	---	30%	
Bromoform	ND	815	1630	ug/kg dry	500	---	ND	---	---	---	30%	
Bromomethane	ND	8150	8150	ug/kg dry	500	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	4070	8150	ug/kg dry	500	---	ND	---	---	---	30%	
n-Butylbenzene	2980	407	815	ug/kg dry	500	---	3120	---	---	5	30%	
sec-Butylbenzene	3560	407	815	ug/kg dry	500	---	3710	---	---	4	30%	
tert-Butylbenzene	ND	407	815	ug/kg dry	500	---	ND	---	---	---	30%	
Carbon disulfide	ND	4070	8150	ug/kg dry	500	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	407	815	ug/kg dry	500	---	ND	---	---	---	30%	
Chlorobenzene	ND	204	407	ug/kg dry	500	---	ND	---	---	---	30%	
Chloroethane	ND	4070	8150	ug/kg dry	500	---	ND	---	---	---	30%	
Chloroform	ND	407	815	ug/kg dry	500	---	ND	---	---	---	30%	
Chloromethane	ND	2040	4070	ug/kg dry	500	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	407	815	ug/kg dry	500	---	ND	---	---	---	30%	

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3H1300 - 09 08 23 0728
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0884 - EPA 5035A						Soil						
Duplicate (23H0884-DUP2)						Prepared: 08/23/23 18:20 Analyzed: 08/24/23 20:47						V-15
QC Source Sample: Non-SDG (A3H1322-09)												
4-Chlorotoluene	ND	407	815	ug/kg dry	500	---	ND	---	---	---	30%	
Dibromochloromethane	ND	815	1630	ug/kg dry	500	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	2040	4070	ug/kg dry	500	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	407	815	ug/kg dry	500	---	ND	---	---	---	30%	
Dibromomethane	ND	407	815	ug/kg dry	500	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	204	407	ug/kg dry	500	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	204	407	ug/kg dry	500	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	204	407	ug/kg dry	500	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	815	1630	ug/kg dry	500	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	204	407	ug/kg dry	500	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	204	407	ug/kg dry	500	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	204	407	ug/kg dry	500	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	204	407	ug/kg dry	500	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	204	407	ug/kg dry	500	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	204	407	ug/kg dry	500	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	407	815	ug/kg dry	500	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	407	815	ug/kg dry	500	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	407	815	ug/kg dry	500	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	407	815	ug/kg dry	500	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	407	815	ug/kg dry	500	---	ND	---	---	---	30%	
Ethylbenzene	ND	204	407	ug/kg dry	500	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	815	1630	ug/kg dry	500	---	ND	---	---	---	30%	
2-Hexanone	ND	4070	8150	ug/kg dry	500	---	ND	---	---	---	30%	
Isopropylbenzene	741	407	815	ug/kg dry	500	---	782	---	---	5	30%	J
4-Isopropyltoluene	2500	407	815	ug/kg dry	500	---	2710	---	---	8	30%	
Methylene chloride	ND	4070	8150	ug/kg dry	500	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	4070	8150	ug/kg dry	500	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	407	815	ug/kg dry	500	---	ND	---	---	---	30%	
Naphthalene	4350	815	1630	ug/kg dry	500	---	4680	---	---	7	30%	
n-Propylbenzene	1590	204	407	ug/kg dry	500	---	1680	---	---	5	30%	
Styrene	ND	407	815	ug/kg dry	500	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	204	407	ug/kg dry	500	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	3260	3260	ug/kg dry	500	---	ND	---	---	---	30%	R-02

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3H1300 - 09 08 23 0728
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23H0884 - EPA 5035A						Soil							
Duplicate (23H0884-DUP2)			Prepared: 08/23/23 18:20 Analyzed: 08/24/23 20:47						V-15				
QC Source Sample: Non-SDG (A3H1322-09)													
Tetrachloroethene (PCE)	ND	204	407	ug/kg dry	500	---	ND	---	---	---	30%		
Toluene	ND	407	815	ug/kg dry	500	---	ND	---	---	---	30%		
1,2,3-Trichlorobenzene	ND	2040	4070	ug/kg dry	500	---	ND	---	---	---	30%		
1,2,4-Trichlorobenzene	ND	2040	4070	ug/kg dry	500	---	ND	---	---	---	30%		
1,1,1-Trichloroethane	ND	204	407	ug/kg dry	500	---	ND	---	---	---	30%		
1,1,2-Trichloroethane	ND	1220	1220	ug/kg dry	500	---	ND	---	---	---	30%	R-02	
Trichloroethene (TCE)	ND	204	407	ug/kg dry	500	---	ND	---	---	---	30%		
Trichlorofluoromethane	ND	1630	1630	ug/kg dry	500	---	ND	---	---	---	30%		
1,2,3-Trichloropropane	ND	815	815	ug/kg dry	500	---	ND	---	---	---	30%		
1,2,4-Trimethylbenzene	5640	407	815	ug/kg dry	500	---	5940	---	---	5	30%		
1,3,5-Trimethylbenzene	ND	407	815	ug/kg dry	500	---	ND	---	---	---	30%		
Vinyl chloride	ND	204	407	ug/kg dry	500	---	ND	---	---	---	30%		
m,p-Xylene	ND	407	815	ug/kg dry	500	---	ND	---	---	---	30%		
o-Xylene	ND	204	407	ug/kg dry	500	---	ND	---	---	---	30%		
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>							
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>							
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>79-120 %</i>		<i>"</i>							

Matrix Spike (23H0884-MS1)			Prepared: 08/23/23 11:30 Analyzed: 08/24/23 22:29									
QC Source Sample: FC-082223-2167 (A3H1300-01)												
5035A/8260D												
Acetone	16900	4050	8110	ug/kg dry	50	16200	ND	104	36-164%	---	---	
Acrylonitrile	8850	405	811	ug/kg dry	50	8100	ND	109	65-134%	---	---	
Benzene	8820	40.5	81.1	ug/kg dry	50	8100	114	107	77-121%	---	---	
Bromobenzene	8650	101	203	ug/kg dry	50	8100	ND	107	78-121%	---	---	
Bromochloromethane	8180	203	405	ug/kg dry	50	8100	ND	101	78-125%	---	---	
Bromodichloromethane	8530	203	405	ug/kg dry	50	8100	ND	105	75-127%	---	---	
Bromoform	7720	405	811	ug/kg dry	50	8100	ND	95	67-132%	---	---	
Bromomethane	10200	4050	4050	ug/kg dry	50	8100	ND	126	53-143%	---	---	
2-Butanone (MEK)	17700	2030	4050	ug/kg dry	50	16200	ND	109	51-148%	---	---	
n-Butylbenzene	10400	203	405	ug/kg dry	50	8100	ND	129	70-128%	---	---	Q-01
sec-Butylbenzene	9970	203	405	ug/kg dry	50	8100	ND	123	73-126%	---	---	
tert-Butylbenzene	9150	203	405	ug/kg dry	50	8100	ND	113	73-125%	---	---	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3H1300 - 09 08 23 0728
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0884 - EPA 5035A						Soil						
Matrix Spike (23H0884-MS1)						Prepared: 08/23/23 11:30 Analyzed: 08/24/23 22:29						
QC Source Sample: FC-082223-2167 (A3H1300-01)												
Carbon disulfide	8680	2030	4050	ug/kg dry	50	8100	ND	107	63-132%	---	---	
Carbon tetrachloride	9200	203	405	ug/kg dry	50	8100	ND	113	70-135%	---	---	
Chlorobenzene	8590	101	203	ug/kg dry	50	8100	ND	106	79-120%	---	---	
Chloroethane	8670	2030	4050	ug/kg dry	50	8100	ND	107	59-139%	---	---	
Chloroform	8760	203	405	ug/kg dry	50	8100	ND	108	78-123%	---	---	
Chloromethane	7780	1010	2030	ug/kg dry	50	8100	ND	96	50-136%	---	---	
2-Chlorotoluene	8840	203	405	ug/kg dry	50	8100	ND	109	75-122%	---	---	
4-Chlorotoluene	8560	203	405	ug/kg dry	50	8100	ND	106	72-124%	---	---	
Dibromochloromethane	8020	405	811	ug/kg dry	50	8100	ND	99	74-126%	---	---	
1,2-Dibromo-3-chloropropane	8050	1010	2030	ug/kg dry	50	8100	ND	99	61-132%	---	---	
1,2-Dibromoethane (EDB)	8780	203	405	ug/kg dry	50	8100	ND	108	78-122%	---	---	
Dibromomethane	8670	203	405	ug/kg dry	50	8100	ND	107	78-125%	---	---	
1,2-Dichlorobenzene	8750	101	203	ug/kg dry	50	8100	ND	108	78-121%	---	---	
1,3-Dichlorobenzene	8590	101	203	ug/kg dry	50	8100	ND	106	77-121%	---	---	
1,4-Dichlorobenzene	8420	101	203	ug/kg dry	50	8100	ND	104	75-120%	---	---	
Dichlorodifluoromethane	10300	405	811	ug/kg dry	50	8100	ND	127	29-149%	---	---	
1,1-Dichloroethane	8590	101	203	ug/kg dry	50	8100	ND	106	76-125%	---	---	
1,2-Dichloroethane (EDC)	8640	101	203	ug/kg dry	50	8100	ND	107	73-128%	---	---	
1,1-Dichloroethene	9470	101	203	ug/kg dry	50	8100	ND	117	70-131%	---	---	
cis-1,2-Dichloroethene	8950	101	203	ug/kg dry	50	8100	ND	110	77-123%	---	---	
trans-1,2-Dichloroethene	8960	101	203	ug/kg dry	50	8100	ND	111	74-125%	---	---	
1,2-Dichloropropane	8770	101	203	ug/kg dry	50	8100	ND	108	76-123%	---	---	
1,3-Dichloropropane	8460	203	405	ug/kg dry	50	8100	ND	104	77-121%	---	---	
2,2-Dichloropropane	8520	203	405	ug/kg dry	50	8100	ND	105	67-133%	---	---	
1,1-Dichloropropene	9590	203	405	ug/kg dry	50	8100	ND	118	76-125%	---	---	
cis-1,3-Dichloropropene	8590	203	405	ug/kg dry	50	8100	ND	106	74-126%	---	---	
trans-1,3-Dichloropropene	8320	203	405	ug/kg dry	50	8100	ND	103	71-130%	---	---	
Ethylbenzene	8810	101	203	ug/kg dry	50	8100	ND	109	76-122%	---	---	
Hexachlorobutadiene	12800	405	811	ug/kg dry	50	8100	ND	157	61-135%	---	---	Q-01
2-Hexanone	16900	2030	4050	ug/kg dry	50	16200	ND	104	53-145%	---	---	
Isopropylbenzene	9590	203	405	ug/kg dry	50	8100	ND	118	68-134%	---	---	
4-Isopropyltoluene	10400	203	405	ug/kg dry	50	8100	ND	128	73-127%	---	---	Q-01
Methylene chloride	8990	2030	4050	ug/kg dry	50	8100	ND	111	70-128%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0884 - EPA 5035A						Soil						
Matrix Spike (23H0884-MS1)			Prepared: 08/23/23 11:30 Analyzed: 08/24/23 22:29									
QC Source Sample: FC-082223-2167 (A3H1300-01)												
4-Methyl-2-pentanone (MiBK)	16500	2030	4050	ug/kg dry	50	16200	ND	102	65-135%	---	---	
Methyl tert-butyl ether (MTBE)	8590	203	405	ug/kg dry	50	8100	ND	106	73-125%	---	---	
Naphthalene	10700	405	811	ug/kg dry	50	8100	969	120	62-129%	---	---	
n-Propylbenzene	9080	101	203	ug/kg dry	50	8100	ND	112	73-125%	---	---	
Styrene	9170	203	405	ug/kg dry	50	8100	ND	113	76-124%	---	---	
1,1,1,2-Tetrachloroethane	8440	101	203	ug/kg dry	50	8100	ND	104	78-125%	---	---	
1,1,2,2-Tetrachloroethane	7000	203	405	ug/kg dry	50	8100	ND	86	70-124%	---	---	
Tetrachloroethene (PCE)	9500	101	203	ug/kg dry	50	8100	ND	117	73-128%	---	---	
Toluene	8590	203	405	ug/kg dry	50	8100	ND	106	77-121%	---	---	
1,2,3-Trichlorobenzene	9470	1010	2030	ug/kg dry	50	8100	ND	117	66-130%	---	---	
1,2,4-Trichlorobenzene	9640	1010	2030	ug/kg dry	50	8100	ND	119	67-129%	---	---	
1,1,1-Trichloroethane	9360	101	203	ug/kg dry	50	8100	ND	115	73-130%	---	---	
1,1,2-Trichloroethane	8650	101	203	ug/kg dry	50	8100	ND	107	78-121%	---	---	
Trichloroethene (TCE)	10500	101	203	ug/kg dry	50	8100	ND	130	77-123%	---	---	Q-01
Trichlorofluoromethane	12200	811	811	ug/kg dry	50	8100	ND	150	62-140%	---	---	Q-54
1,2,3-Trichloropropane	8560	203	405	ug/kg dry	50	8100	ND	106	73-125%	---	---	
1,2,4-Trimethylbenzene	9290	203	405	ug/kg dry	50	8100	373	110	75-123%	---	---	
1,3,5-Trimethylbenzene	9260	203	405	ug/kg dry	50	8100	ND	114	73-124%	---	---	
Vinyl chloride	10600	101	203	ug/kg dry	50	8100	ND	130	56-135%	---	---	
m,p-Xylene	18100	203	405	ug/kg dry	50	16200	ND	112	77-124%	---	---	
o-Xylene	9040	101	203	ug/kg dry	50	8100	ND	112	77-123%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>79-120 %</i>		<i>"</i>						

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3H1300 - 09 08 23 0728
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0939 - EPA 1311/5030C TCLP Volatiles						Water						
Blank (23H0939-BLK1)						Prepared: 08/25/23 08:56 Analyzed: 08/25/23 12:05						TCLP
<u>1311/8260D</u>												
Benzene	ND	6.25	12.5	ug/L	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/L	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>104 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						

LCS (23H0939-BS1)						Prepared: 08/25/23 08:56 Analyzed: 08/25/23 11:20						TCLP
<u>1311/8260D</u>												
Benzene	946	6.25	12.5	ug/L	50	1000	---	95	80-120%	---	---	
2-Butanone (MEK)	1900	250	500	ug/L	50	2000	---	95	80-120%	---	---	
Carbon tetrachloride	1020	25.0	50.0	ug/L	50	1000	---	102	80-120%	---	---	
Chlorobenzene	1020	12.5	25.0	ug/L	50	1000	---	102	80-120%	---	---	
Chloroform	1020	25.0	50.0	ug/L	50	1000	---	102	80-120%	---	---	
1,4-Dichlorobenzene	964	12.5	25.0	ug/L	50	1000	---	96	80-120%	---	---	
1,1-Dichloroethene	971	12.5	25.0	ug/L	50	1000	---	97	80-120%	---	---	
1,2-Dichloroethane (EDC)	1070	12.5	25.0	ug/L	50	1000	---	107	80-120%	---	---	
Tetrachloroethene (PCE)	969	12.5	25.0	ug/L	50	1000	---	97	80-120%	---	---	
Trichloroethene (TCE)	920	12.5	25.0	ug/L	50	1000	---	92	80-120%	---	---	
Vinyl chloride	906	12.5	25.0	ug/L	50	1000	---	91	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 96 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>94 %</i>		<i>80-120 %</i>		<i>"</i>						

Duplicate (23H0939-DUP1)						Prepared: 08/25/23 08:56 Analyzed: 08/25/23 13:35					
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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3H1300 - 09 08 23 0728
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0939 - EPA 1311/5030C TCLP Volatiles						Water						
Duplicate (23H0939-DUP1)			Prepared: 08/25/23 08:56 Analyzed: 08/25/23 13:35									
QC Source Sample: Non-SDG (A3H1304-01)												
Benzene	ND	6.25	12.5	ug/L	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	250	500	ug/L	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Chloroform	43.0	25.0	50.0	ug/L	50	---	45.0	---	---	5	30%	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>104 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						

Matrix Spike (23H0939-MS1)			Prepared: 08/25/23 08:56 Analyzed: 08/25/23 14:20									
QC Source Sample: Non-SDG (A3H1337-01)												
1311/8260D												
Benzene	1040	6.25	12.5	ug/L	50	1000	ND	104	79-120%	---	---	
2-Butanone (MEK)	1980	250	500	ug/L	50	2000	ND	99	56-143%	---	---	
Carbon tetrachloride	1140	25.0	50.0	ug/L	50	1000	ND	114	72-136%	---	---	
Chlorobenzene	1080	12.5	25.0	ug/L	50	1000	ND	108	80-120%	---	---	
Chloroform	1100	25.0	50.0	ug/L	50	1000	ND	110	79-124%	---	---	
1,4-Dichlorobenzene	1040	12.5	25.0	ug/L	50	1000	ND	104	79-120%	---	---	
1,1-Dichloroethene	1140	12.5	25.0	ug/L	50	1000	ND	114	71-131%	---	---	
1,2-Dichloroethane (EDC)	1110	12.5	25.0	ug/L	50	1000	ND	111	73-128%	---	---	
Tetrachloroethene (PCE)	1090	12.5	25.0	ug/L	50	1000	ND	109	74-129%	---	---	
Trichloroethene (TCE)	1030	12.5	25.0	ug/L	50	1000	ND	103	79-123%	---	---	
Vinyl chloride	1120	12.5	25.0	ug/L	50	1000	ND	112	58-137%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>103 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>93 %</i>		<i>80-120 %</i>		<i>"</i>						

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ANALYTICAL REPORT

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 ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3H1300 - 09 08 23 0728
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H1038 - EPA 3546						Solid						
Blank (23H1038-BLK2)			Prepared: 08/29/23 07:36 Analyzed: 08/29/23 12:07									
<u>EPA 8270E</u>												
Acenaphthene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Chrysene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Fluoranthene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Fluorene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
Naphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
Phenanthrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Pyrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Carbazole	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Dibenzofuran	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
2-Chlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
2-Methylphenol	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Nitrophenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
4-Nitrophenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Phenol	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3H1300 - 09 08 23 0728
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H1038 - EPA 3546						Solid						
Blank (23H1038-BLK2)			Prepared: 08/29/23 07:36 Analyzed: 08/29/23 12:07									
2,3,5,6-Tetrachlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	20.0	40.0	ug/kg wet	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Diethylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Dimethylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Di-n-butylphthalate	135	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	B
Di-n-octyl phthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2,2'-Oxybis(1-Chloropropane)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Hexachloroethane	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Aniline	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
4-Chloroaniline	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
3-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
4-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
Nitrobenzene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Benzoic acid	ND	167	333	ug/kg wet	1	---	---	---	---	---	---	
Benzyl alcohol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Isophorone	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H1038 - EPA 3546						Solid						
Blank (23H1038-BLK2)			Prepared: 08/29/23 07:36 Analyzed: 08/29/23 12:07									
Azobenzene (1,2-DPH)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Ethylhexyl) adipate	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	Q-52
1,2-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
Pyridine	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 95 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 1x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>92 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>97 %</i>		<i>33-122 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>102 %</i>		<i>54-127 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>89 %</i>		<i>35-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>97 %</i>		<i>39-132 %</i>		<i>"</i>						

LCS (23H1038-BS2)						Prepared: 08/29/23 07:36 Analyzed: 08/29/23 12:42						Q-18
EPA 8270E												
Acenaphthene	536	5.32	10.7	ug/kg wet	4	533	---	100	40-123%	---	---	
Acenaphthylene	559	5.32	10.7	ug/kg wet	4	533	---	105	32-132%	---	---	
Anthracene	569	5.32	10.7	ug/kg wet	4	533	---	107	47-123%	---	---	
Benz(a)anthracene	551	5.32	10.7	ug/kg wet	4	533	---	103	49-126%	---	---	
Benzo(a)pyrene	619	8.00	16.0	ug/kg wet	4	533	---	116	45-129%	---	---	
Benzo(b)fluoranthene	551	8.00	16.0	ug/kg wet	4	533	---	103	45-132%	---	---	
Benzo(k)fluoranthene	587	8.00	16.0	ug/kg wet	4	533	---	110	47-132%	---	---	
Benzo(g,h,i)perylene	542	5.32	10.7	ug/kg wet	4	533	---	102	43-134%	---	---	
Chrysene	564	5.32	10.7	ug/kg wet	4	533	---	106	50-124%	---	---	
Dibenz(a,h)anthracene	534	5.32	10.7	ug/kg wet	4	533	---	100	45-134%	---	---	
Fluoranthene	586	5.32	10.7	ug/kg wet	4	533	---	110	50-127%	---	---	
Fluorene	577	5.32	10.7	ug/kg wet	4	533	---	108	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	508	5.32	10.7	ug/kg wet	4	533	---	95	45-133%	---	---	
1-Methylnaphthalene	565	10.7	21.3	ug/kg wet	4	533	---	106	40-120%	---	---	
2-Methylnaphthalene	601	10.7	21.3	ug/kg wet	4	533	---	113	38-122%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc.	Project: Gasco -- Filtercake	
2749 Lockport Road	Project Number: 111323	Report ID:
Niagara Falls, NY 14305	Project Manager: Chip Byrd	A3H1300 - 09 08 23 0728

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H1038 - EPA 3546						Solid						
LCS (23H1038-BS2)						Prepared: 08/29/23 07:36 Analyzed: 08/29/23 12:42						Q-18
Naphthalene	520	10.7	21.3	ug/kg wet	4	533	---	98	35-123%	---	---	
Phenanthrene	528	5.32	10.7	ug/kg wet	4	533	---	99	50-121%	---	---	
Pyrene	577	5.32	10.7	ug/kg wet	4	533	---	108	47-127%	---	---	
Carbazole	597	8.00	16.0	ug/kg wet	4	533	---	112	50-123%	---	---	
Dibenzofuran	569	5.32	10.7	ug/kg wet	4	533	---	107	44-120%	---	---	
2-Chlorophenol	537	26.7	53.2	ug/kg wet	4	533	---	101	34-121%	---	---	
4-Chloro-3-methylphenol	639	53.2	107	ug/kg wet	4	533	---	120	45-122%	---	---	
2,4-Dichlorophenol	612	26.7	53.2	ug/kg wet	4	533	---	115	40-122%	---	---	
2,4-Dimethylphenol	612	26.7	53.2	ug/kg wet	4	533	---	115	30-127%	---	---	
2,4-Dinitrophenol	542	133	267	ug/kg wet	4	533	---	102	10-137%	---	---	Q-41
4,6-Dinitro-2-methylphenol	552	133	267	ug/kg wet	4	533	---	103	29-132%	---	---	
2-Methylphenol	607	13.3	26.7	ug/kg wet	4	533	---	114	32-122%	---	---	
3+4-Methylphenol(s)	658	13.3	26.7	ug/kg wet	4	533	---	123	34-120%	---	---	Q-29
2-Nitrophenol	576	53.2	107	ug/kg wet	4	533	---	108	36-123%	---	---	
4-Nitrophenol	506	53.2	107	ug/kg wet	4	533	---	95	30-132%	---	---	
Pentachlorophenol (PCP)	555	53.2	107	ug/kg wet	4	533	---	104	25-133%	---	---	
Phenol	588	10.7	21.3	ug/kg wet	4	533	---	110	34-121%	---	---	
2,3,4,6-Tetrachlorophenol	540	26.7	53.2	ug/kg wet	4	533	---	101	44-125%	---	---	
2,3,5,6-Tetrachlorophenol	560	26.7	53.2	ug/kg wet	4	533	---	105	40-120%	---	---	
2,4,5-Trichlorophenol	548	26.7	53.2	ug/kg wet	4	533	---	103	41-124%	---	---	
2,4,6-Trichlorophenol	540	26.7	53.2	ug/kg wet	4	533	---	101	39-126%	---	---	
Bis(2-ethylhexyl)phthalate	525	80.0	160	ug/kg wet	4	533	---	98	51-133%	---	---	
Butyl benzyl phthalate	550	53.2	107	ug/kg wet	4	533	---	103	48-132%	---	---	
Diethylphthalate	566	53.2	107	ug/kg wet	4	533	---	106	50-124%	---	---	
Dimethylphthalate	559	53.2	107	ug/kg wet	4	533	---	105	48-124%	---	---	
Di-n-butylphthalate	759	53.2	107	ug/kg wet	4	533	---	142	51-128%	---	---	B, Q-29
Di-n-octyl phthalate	540	53.2	107	ug/kg wet	4	533	---	101	45-140%	---	---	
N-Nitrosodimethylamine	430	13.3	26.7	ug/kg wet	4	533	---	81	23-120%	---	---	
N-Nitroso-di-n-propylamine	636	13.3	26.7	ug/kg wet	4	533	---	119	36-120%	---	---	
N-Nitrosodiphenylamine	611	13.3	26.7	ug/kg wet	4	533	---	115	38-127%	---	---	
Bis(2-Chloroethoxy) methane	524	13.3	26.7	ug/kg wet	4	533	---	98	36-121%	---	---	
Bis(2-Chloroethyl) ether	514	13.3	26.7	ug/kg wet	4	533	---	96	31-120%	---	---	
2,2'-Oxybis(1-Chloropropane)	518	13.3	26.7	ug/kg wet	4	533	---	97	39-120%	---	---	
Hexachlorobenzene	542	5.32	10.7	ug/kg wet	4	533	---	102	45-122%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3H1300 - 09 08 23 0728
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H1038 - EPA 3546						Solid						
LCS (23H1038-BS2)						Prepared: 08/29/23 07:36 Analyzed: 08/29/23 12:42						Q-18
Hexachlorobutadiene	524	13.3	26.7	ug/kg wet	4	533	---	98	32-123%	---	---	
Hexachlorocyclopentadiene	394	26.7	53.2	ug/kg wet	4	533	---	74	10-140%	---	---	
Hexachloroethane	515	13.3	26.7	ug/kg wet	4	533	---	97	28-120%	---	---	
2-Chloronaphthalene	532	5.32	10.7	ug/kg wet	4	533	---	100	41-120%	---	---	
1,2,4-Trichlorobenzene	519	13.3	26.7	ug/kg wet	4	533	---	97	34-120%	---	---	
4-Bromophenyl phenyl ether	565	13.3	26.7	ug/kg wet	4	533	---	106	46-124%	---	---	
4-Chlorophenyl phenyl ether	586	13.3	26.7	ug/kg wet	4	533	---	110	45-121%	---	---	
Aniline	513	26.7	53.2	ug/kg wet	4	533	---	96	10-120%	---	---	
4-Chloroaniline	443	13.3	26.7	ug/kg wet	4	533	---	83	17-120%	---	---	Q-41
2-Nitroaniline	557	107	213	ug/kg wet	4	533	---	105	44-127%	---	---	
3-Nitroaniline	706	107	213	ug/kg wet	4	533	---	132	33-120%	---	---	Q-29, Q-41
4-Nitroaniline	559	107	213	ug/kg wet	4	533	---	105	51-125%	---	---	
Nitrobenzene	569	53.2	107	ug/kg wet	4	533	---	107	34-122%	---	---	
2,4-Dinitrotoluene	534	53.2	107	ug/kg wet	4	533	---	100	48-126%	---	---	
2,6-Dinitrotoluene	567	53.2	107	ug/kg wet	4	533	---	106	46-124%	---	---	
Benzoic acid	870	668	668	ug/kg wet	4	1070	---	82	10-140%	---	---	Q-41
Benzyl alcohol	609	26.7	53.2	ug/kg wet	4	533	---	114	29-122%	---	---	
Isophorone	547	13.3	26.7	ug/kg wet	4	533	---	103	30-122%	---	---	
Azobenzene (1,2-DPH)	537	13.3	26.7	ug/kg wet	4	533	---	101	39-125%	---	---	
Bis(2-Ethylhexyl) adipate	524	133	267	ug/kg wet	4	533	---	98	61-121%	---	---	
3,3'-Dichlorobenzidine	3380	107	213	ug/kg wet	4	1070	---	317	22-121%	---	---	Q-29, Q-41, Q-52
1,2-Dinitrobenzene	511	133	267	ug/kg wet	4	533	---	96	44-120%	---	---	
1,3-Dinitrobenzene	561	133	267	ug/kg wet	4	533	---	105	43-127%	---	---	
1,4-Dinitrobenzene	548	133	267	ug/kg wet	4	533	---	103	37-132%	---	---	
Pyridine	396	26.7	53.2	ug/kg wet	4	533	---	74	10-120%	---	---	
1,2-Dichlorobenzene	510	13.3	26.7	ug/kg wet	4	533	---	96	33-120%	---	---	
1,3-Dichlorobenzene	497	13.3	26.7	ug/kg wet	4	533	---	93	30-120%	---	---	
1,4-Dichlorobenzene	494	13.3	26.7	ug/kg wet	4	533	---	93	31-120%	---	---	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 110 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 4x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>101 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>106 %</i>		<i>33-122 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>105 %</i>		<i>54-127 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>94 %</i>		<i>35-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>115 %</i>		<i>39-132 %</i>		<i>"</i>						

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3H1300 - 09 08 23 0728
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H1038 - EPA 3546							Solid					
Duplicate (23H1038-DUP2)			Prepared: 08/29/23 07:36 Analyzed: 08/29/23 13:51									
QC Source Sample: Non-SDG (A3H1207-33)												
Acenaphthene	ND	395	793	ug/kg wet	40	---	ND	---	---	---	30%	
Acenaphthylene	ND	395	793	ug/kg wet	40	---	ND	---	---	---	30%	
Anthracene	ND	395	793	ug/kg wet	40	---	ND	---	---	---	30%	
Benz(a)anthracene	797	395	793	ug/kg wet	40	---	1500	---	---	61	30%	Q-04
Benzo(a)pyrene	1120	594	1190	ug/kg wet	40	---	1850	---	---	49	30%	Q-04, J
Benzo(b)fluoranthene	1370	594	1190	ug/kg wet	40	---	2290	---	---	50	30%	Q-04
Benzo(k)fluoranthene	747	594	1190	ug/kg wet	40	---	1180	---	---	45	30%	Q-04, J
Benzo(g,h,i)perylene	ND	395	793	ug/kg wet	40	---	825	---	---	***	30%	Q-04
Chrysene	1000	395	793	ug/kg wet	40	---	2060	---	---	69	30%	Q-04
Dibenz(a,h)anthracene	ND	395	793	ug/kg wet	40	---	ND	---	---	---	30%	
Fluoranthene	1590	395	793	ug/kg wet	40	---	3220	---	---	68	30%	Q-04
Fluorene	ND	395	793	ug/kg wet	40	---	ND	---	---	---	30%	
Indeno(1,2,3-cd)pyrene	475	395	793	ug/kg wet	40	---	959	---	---	67	30%	Q-04, J
1-Methylnaphthalene	ND	793	1580	ug/kg wet	40	---	ND	---	---	---	30%	
2-Methylnaphthalene	ND	793	1580	ug/kg wet	40	---	ND	---	---	---	30%	
Naphthalene	ND	793	1580	ug/kg wet	40	---	ND	---	---	---	30%	
Phenanthrene	766	395	793	ug/kg wet	40	---	1550	---	---	68	30%	Q-04, J
Pyrene	1370	395	793	ug/kg wet	40	---	2840	---	---	70	30%	Q-04
Carbazole	ND	594	1190	ug/kg wet	40	---	ND	---	---	---	30%	
Dibenzofuran	ND	395	793	ug/kg wet	40	---	ND	---	---	---	30%	
2-Chlorophenol	ND	1980	3950	ug/kg wet	40	---	ND	---	---	---	30%	
4-Chloro-3-methylphenol	ND	3950	7930	ug/kg wet	40	---	ND	---	---	---	30%	
2,4-Dichlorophenol	ND	1980	3950	ug/kg wet	40	---	ND	---	---	---	30%	
2,4-Dimethylphenol	ND	1980	3950	ug/kg wet	40	---	ND	---	---	---	30%	
2,4-Dinitrophenol	ND	9890	19800	ug/kg wet	40	---	ND	---	---	---	30%	
4,6-Dinitro-2-methylphenol	ND	9890	19800	ug/kg wet	40	---	ND	---	---	---	30%	
2-Methylphenol	ND	989	1980	ug/kg wet	40	---	ND	---	---	---	30%	
3+4-Methylphenol(s)	ND	989	1980	ug/kg wet	40	---	ND	---	---	---	30%	
2-Nitrophenol	ND	3950	7930	ug/kg wet	40	---	ND	---	---	---	30%	
4-Nitrophenol	ND	3950	7930	ug/kg wet	40	---	ND	---	---	---	30%	
Pentachlorophenol (PCP)	ND	3950	7930	ug/kg wet	40	---	ND	---	---	---	30%	
Phenol	ND	793	1580	ug/kg wet	40	---	ND	---	---	---	30%	

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3H1300 - 09 08 23 0728
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H1038 - EPA 3546							Solid					
Duplicate (23H1038-DUP2)			Prepared: 08/29/23 07:36 Analyzed: 08/29/23 13:51									
QC Source Sample: Non-SDG (A3H1207-33)												
2,3,4,6-Tetrachlorophenol	ND	1980	3950	ug/kg wet	40	---	ND	---	---	---	30%	
2,3,5,6-Tetrachlorophenol	ND	1980	3950	ug/kg wet	40	---	ND	---	---	---	30%	
2,4,5-Trichlorophenol	ND	1980	3950	ug/kg wet	40	---	ND	---	---	---	30%	
2,4,6-Trichlorophenol	ND	1980	3950	ug/kg wet	40	---	ND	---	---	---	30%	
Bis(2-ethylhexyl)phthalate	ND	5940	11900	ug/kg wet	40	---	ND	---	---	---	30%	
Butyl benzyl phthalate	ND	3950	7930	ug/kg wet	40	---	ND	---	---	---	30%	
Diethylphthalate	ND	3950	7930	ug/kg wet	40	---	ND	---	---	---	30%	
Dimethylphthalate	ND	3950	7930	ug/kg wet	40	---	ND	---	---	---	30%	
Di-n-butylphthalate	ND	3950	7930	ug/kg wet	40	---	ND	---	---	---	30%	
Di-n-octyl phthalate	ND	3950	7930	ug/kg wet	40	---	ND	---	---	---	30%	
N-Nitrosodimethylamine	ND	989	1980	ug/kg wet	40	---	ND	---	---	---	30%	
N-Nitroso-di-n-propylamine	ND	989	1980	ug/kg wet	40	---	ND	---	---	---	30%	
N-Nitrosodiphenylamine	ND	989	1980	ug/kg wet	40	---	ND	---	---	---	30%	
Bis(2-Chloroethoxy) methane	ND	989	1980	ug/kg wet	40	---	ND	---	---	---	30%	
Bis(2-Chloroethyl) ether	ND	989	1980	ug/kg wet	40	---	ND	---	---	---	30%	
2,2'-Oxybis(1-Chloropropane)	ND	989	1980	ug/kg wet	40	---	ND	---	---	---	30%	
Hexachlorobenzene	ND	395	793	ug/kg wet	40	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	989	1980	ug/kg wet	40	---	ND	---	---	---	30%	
Hexachlorocyclopentadiene	ND	1980	3950	ug/kg wet	40	---	ND	---	---	---	30%	
Hexachloroethane	ND	989	1980	ug/kg wet	40	---	ND	---	---	---	30%	
2-Chloronaphthalene	ND	395	793	ug/kg wet	40	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	989	1980	ug/kg wet	40	---	ND	---	---	---	30%	
4-Bromophenyl phenyl ether	ND	989	1980	ug/kg wet	40	---	ND	---	---	---	30%	
4-Chlorophenyl phenyl ether	ND	989	1980	ug/kg wet	40	---	ND	---	---	---	30%	
Aniline	ND	1980	3950	ug/kg wet	40	---	ND	---	---	---	30%	
4-Chloroaniline	ND	989	1980	ug/kg wet	40	---	ND	---	---	---	30%	
2-Nitroaniline	ND	7930	15800	ug/kg wet	40	---	ND	---	---	---	30%	
3-Nitroaniline	ND	7930	15800	ug/kg wet	40	---	ND	---	---	---	30%	
4-Nitroaniline	ND	7930	15800	ug/kg wet	40	---	ND	---	---	---	30%	
Nitrobenzene	ND	3950	7930	ug/kg wet	40	---	ND	---	---	---	30%	
2,4-Dinitrotoluene	ND	3950	7930	ug/kg wet	40	---	ND	---	---	---	30%	
2,6-Dinitrotoluene	ND	3950	7930	ug/kg wet	40	---	ND	---	---	---	30%	
Benzoic acid	ND	49600	98900	ug/kg wet	40	---	ND	---	---	---	30%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23H1038 - EPA 3546						Solid							
Duplicate (23H1038-DUP2)			Prepared: 08/29/23 07:36 Analyzed: 08/29/23 13:51										
QC Source Sample: Non-SDG (A3H1207-33)													
Benzyl alcohol	ND	1980	3950	ug/kg wet	40	---	ND	---	---	---	30%		
Isophorone	ND	989	1980	ug/kg wet	40	---	ND	---	---	---	30%		
Azobenzene (1,2-DPH)	ND	989	1980	ug/kg wet	40	---	ND	---	---	---	30%		
Bis(2-Ethylhexyl) adipate	ND	9890	19800	ug/kg wet	40	---	ND	---	---	---	30%		
3,3'-Dichlorobenzidine	ND	7930	15800	ug/kg wet	40	---	ND	---	---	---	30%	Q-52	
1,2-Dinitrobenzene	ND	9890	19800	ug/kg wet	40	---	ND	---	---	---	30%		
1,3-Dinitrobenzene	ND	9890	19800	ug/kg wet	40	---	ND	---	---	---	30%		
1,4-Dinitrobenzene	ND	9890	19800	ug/kg wet	40	---	ND	---	---	---	30%		
Pyridine	ND	1980	3950	ug/kg wet	40	---	ND	---	---	---	30%		
1,2-Dichlorobenzene	ND	989	1980	ug/kg wet	40	---	ND	---	---	---	30%		
1,3-Dichlorobenzene	ND	989	1980	ug/kg wet	40	---	ND	---	---	---	30%		
1,4-Dichlorobenzene	ND	989	1980	ug/kg wet	40	---	ND	---	---	---	30%		
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 76 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 40x</i>							<i>S-05</i>
<i>2-Fluorobiphenyl (Surr)</i>		<i>84 %</i>		<i>44-120 %</i>		<i>"</i>							<i>S-05</i>
<i>Phenol-d6 (Surr)</i>		<i>72 %</i>		<i>33-122 %</i>		<i>"</i>							<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>93 %</i>		<i>54-127 %</i>		<i>"</i>							<i>S-05</i>
<i>2-Fluorophenol (Surr)</i>		<i>73 %</i>		<i>35-120 %</i>		<i>"</i>							<i>S-05</i>
<i>2,4,6-Tribromophenol (Surr)</i>		<i>90 %</i>		<i>39-132 %</i>		<i>"</i>							<i>S-05</i>

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3H1300 - 09 08 23 0728
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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310093 - EPA 3051A						Solid						
Blank (2310093-BLK1)						Prepared: 09/05/23 11:41 Analyzed: 09/05/23 21:12						
<u>EPA 6020B</u>												
Arsenic	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Barium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	100	200	ug/kg wet	10	---	---	---	---	---	---	
Chromium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Lead	ND	100	200	ug/kg wet	10	---	---	---	---	---	---	
Mercury	ND	40.0	80.0	ug/kg wet	10	---	---	---	---	---	---	
Silver	ND	100	200	ug/kg wet	10	---	---	---	---	---	---	
Blank (2310093-BLK2)						Prepared: 09/05/23 11:41 Analyzed: 09/06/23 11:28						
<u>EPA 6020B</u>												
Selenium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	Q-16
LCS (2310093-BS1)						Prepared: 09/05/23 11:41 Analyzed: 09/05/23 21:17						
<u>EPA 6020B</u>												
Arsenic	49600	500	1000	ug/kg wet	10	50000	---	99	80-120%	---	---	
Barium	52200	500	1000	ug/kg wet	10	50000	---	104	80-120%	---	---	
Cadmium	51000	100	200	ug/kg wet	10	50000	---	102	80-120%	---	---	
Chromium	53500	500	1000	ug/kg wet	10	50000	---	107	80-120%	---	---	
Lead	52300	100	200	ug/kg wet	10	50000	---	105	80-120%	---	---	
Mercury	988	40.0	80.0	ug/kg wet	10	1000	---	99	80-120%	---	---	
Silver	27600	100	200	ug/kg wet	10	25000	---	111	80-120%	---	---	
LCS (2310093-BS2)						Prepared: 09/05/23 11:41 Analyzed: 09/06/23 11:43						
<u>EPA 6020B</u>												
Selenium	24900	500	1000	ug/kg wet	10	25000	---	100	80-120%	---	---	Q-16
Duplicate (2310093-DUP1)						Prepared: 09/05/23 11:41 Analyzed: 09/05/23 21:27						
<u>QC Source Sample: FC-082223-2167 (A3H1300-01)</u>												
<u>EPA 6020B</u>												
Arsenic	7490	1900	3800	ug/kg dry	10	---	7680	---	---	3	20%	CONT
Barium	185000	1900	3800	ug/kg dry	10	---	175000	---	---	5	20%	CONT
Cadmium	ND	380	760	ug/kg dry	10	---	ND	---	---	---	20%	CONT

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310093 - EPA 3051A						Solid						
Duplicate (2310093-DUP1)			Prepared: 09/05/23 11:41 Analyzed: 09/05/23 21:27									
<u>QC Source Sample: FC-082223-2167 (A3H1300-01)</u>												
Chromium	ND	1900	3800	ug/kg dry	10	---	ND	---	---	---	20%	CONT
Lead	ND	380	760	ug/kg dry	10	---	ND	---	---	---	20%	CONT
Mercury	ND	152	304	ug/kg dry	10	---	ND	---	---	---	20%	CONT
Silver	ND	380	760	ug/kg dry	10	---	ND	---	---	---	20%	CONT
Duplicate (2310093-DUP2)			Prepared: 09/05/23 11:41 Analyzed: 09/06/23 11:53									
<u>QC Source Sample: FC-082223-2167 (A3H1300-01RE1)</u>												
<u>EPA 6020B</u>												
Selenium	ND	1900	3800	ug/kg dry	10	---	ND	---	---	---	20%	CONT,Q-16
Matrix Spike (2310093-MS1)			Prepared: 09/05/23 11:41 Analyzed: 09/05/23 21:32									
<u>QC Source Sample: FC-082223-2167 (A3H1300-01)</u>												
<u>EPA 6020B</u>												
Arsenic	202000	1990	3980	ug/kg dry	10	199000	7680	98	75-125%	---	---	CONT
Barium	395000	1990	3980	ug/kg dry	10	199000	175000	110	75-125%	---	---	CONT
Cadmium	196000	398	796	ug/kg dry	10	199000	ND	98	75-125%	---	---	CONT
Chromium	207000	1990	3980	ug/kg dry	10	199000	ND	104	75-125%	---	---	CONT
Lead	203000	398	796	ug/kg dry	10	199000	ND	102	75-125%	---	---	CONT
Mercury	3930	159	318	ug/kg dry	10	3980	ND	99	75-125%	---	---	CONT
Silver	109000	398	796	ug/kg dry	10	99500	ND	110	75-125%	---	---	CONT
Matrix Spike (2310093-MS2)			Prepared: 09/05/23 11:41 Analyzed: 09/06/23 11:59									
<u>QC Source Sample: FC-082223-2167 (A3H1300-01RE1)</u>												
<u>EPA 6020B</u>												
Selenium	99100	1990	3980	ug/kg dry	10	99500	ND	100	75-125%	---	---	CONT,Q-16

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QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310035 - EPA 1311/3015A												
Water												
Blank (2310035-BLK1) Prepared: 09/01/23 11:21 Analyzed: 09/01/23 18:47												
<u>1311/6020B</u>												
Arsenic	ND	0.0500	0.100	mg/L	10	---	---	---	---	---	---	TCLPa
Barium	ND	2.50	5.00	mg/L	10	---	---	---	---	---	---	TCLPa
Cadmium	ND	0.0500	0.100	mg/L	10	---	---	---	---	---	---	TCLPa
Chromium	ND	0.100	0.200	mg/L	10	---	---	---	---	---	---	TCLPa
Lead	ND	0.0250	0.0500	mg/L	10	---	---	---	---	---	---	TCLPa
Mercury	ND	0.00375	0.00700	mg/L	10	---	---	---	---	---	---	TCLPa
Selenium	ND	0.0500	0.100	mg/L	10	---	---	---	---	---	---	TCLPa
Silver	ND	0.0500	0.100	mg/L	10	---	---	---	---	---	---	TCLPa
LCS (2310035-BS1) Prepared: 09/01/23 11:21 Analyzed: 09/01/23 18:52												
<u>1311/6020B</u>												
Arsenic	5.06	0.0500	0.100	mg/L	10	5.00	---	101	80-120%	---	---	TCLPa
Barium	9.54	2.50	5.00	mg/L	10	10.0	---	95	80-120%	---	---	TCLPa
Cadmium	1.03	0.0500	0.100	mg/L	10	1.00	---	103	80-120%	---	---	TCLPa
Chromium	4.87	0.100	0.200	mg/L	10	5.00	---	97	80-120%	---	---	TCLPa
Lead	5.16	0.0250	0.0500	mg/L	10	5.00	---	103	80-120%	---	---	TCLPa
Mercury	0.104	0.00375	0.00700	mg/L	10	0.100	---	104	80-120%	---	---	TCLPa
Selenium	0.985	0.0500	0.100	mg/L	10	1.00	---	98	80-120%	---	---	TCLPa
Silver	1.02	0.0500	0.100	mg/L	10	1.00	---	102	80-120%	---	---	TCLPa
Duplicate (2310035-DUP1) Prepared: 09/01/23 11:21 Analyzed: 09/01/23 19:02												
<u>QC Source Sample: FC-082223-2167 (A3H1300-01)</u>												
<u>1311/6020B</u>												
Arsenic	ND	0.0500	0.100	mg/L	10	---	ND	---	---	---	20%	CONT
Barium	ND	2.50	5.00	mg/L	10	---	ND	---	---	---	20%	CONT
Cadmium	ND	0.0500	0.100	mg/L	10	---	ND	---	---	---	20%	CONT
Chromium	ND	0.100	0.200	mg/L	10	---	ND	---	---	---	20%	CONT
Lead	ND	0.0250	0.0500	mg/L	10	---	ND	---	---	---	20%	CONT
Mercury	ND	0.00375	0.00700	mg/L	10	---	ND	---	---	---	20%	CONT
Selenium	ND	0.0500	0.100	mg/L	10	---	ND	---	---	---	20%	CONT
Silver	ND	0.0500	0.100	mg/L	10	---	ND	---	---	---	20%	CONT
Matrix Spike (2310035-MS1) Prepared: 09/01/23 11:21 Analyzed: 09/01/23 19:07												

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QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310035 - EPA 1311/3015A						Water						
Matrix Spike (2310035-MS1)						Prepared: 09/01/23 11:21 Analyzed: 09/01/23 19:07						
QC Source Sample: FC-082223-2167 (A3H1300-01)												
1311/6020B												
Arsenic	5.49	0.0500	0.100	mg/L	10	5.00	ND	110	50-150%	---	---	CONT
Barium	10.5	2.50	5.00	mg/L	10	10.0	ND	105	50-150%	---	---	CONT
Cadmium	1.12	0.0500	0.100	mg/L	10	1.00	ND	112	50-150%	---	---	CONT
Chromium	5.31	0.100	0.200	mg/L	10	5.00	ND	106	50-150%	---	---	CONT
Lead	5.98	0.0250	0.0500	mg/L	10	5.00	ND	120	50-150%	---	---	CONT
Mercury	0.125	0.00375	0.00700	mg/L	10	0.100	ND	125	50-150%	---	---	CONT
Selenium	1.02	0.0500	0.100	mg/L	10	1.00	ND	102	50-150%	---	---	CONT
Silver	1.18	0.0500	0.100	mg/L	10	1.00	ND	118	50-150%	---	---	CONT

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QUALITY CONTROL (QC) SAMPLE RESULTS

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H1057 - ASTM D7511-12mod (S)						Soil						
Blank (23H1057-BLK1)						Prepared: 08/29/23 10:05 Analyzed: 08/31/23 17:11						
<u>D7511-12</u>												
Total Cyanide	ND	50.0	100	ug/kg wet	1	---	---	---	---	---	---	
LCS (23H1057-BS1)						Prepared: 08/29/23 10:05 Analyzed: 08/31/23 17:13						
<u>D7511-12</u>												
Total Cyanide	447	50.0	100	ug/kg wet	1	400	---	112	84-116%	---	---	
Matrix Spike (23H1057-MS1)						Prepared: 08/29/23 10:05 Analyzed: 08/31/23 17:19						
<u>QC Source Sample: FC-082223-2167 (A3H1300-01)</u>												
<u>D7511-12</u>												
Total Cyanide	7910	929	1860	ug/kg dry	5	1490	6620	87	64-136%	---	---	
Matrix Spike Dup (23H1057-MSD1)						Prepared: 08/29/23 10:05 Analyzed: 08/31/23 17:33						
<u>QC Source Sample: FC-082223-2167 (A3H1300-01)</u>												
<u>D7511-12</u>												
Total Cyanide	7500	928	1860	ug/kg dry	5	1480	6620	59	64-136%	5	47%	Q-01

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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0895 - Total Solids (Dry Weight) - 2022												
Soil												
Duplicate (23H0895-DUP1)												
						Prepared: 08/24/23 10:13 Analyzed: 08/25/23 07:42						TEMP
<u>QC Source Sample: Non-SDG (A3H1310-01)</u>												
% Solids	88.7	1.00	1.00	%	1	---	87.7	---	---	1	10%	
Duplicate (23H0895-DUP2)												
						Prepared: 08/24/23 10:13 Analyzed: 08/25/23 07:42						TEMP
<u>QC Source Sample: Non-SDG (A3H1310-02)</u>												
% Solids	82.8	1.00	1.00	%	1	---	81.6	---	---	2	10%	
Duplicate (23H0895-DUP3)												
						Prepared: 08/24/23 10:13 Analyzed: 08/25/23 07:42						TEMP
<u>QC Source Sample: Non-SDG (A3H1310-03)</u>												
% Solids	87.2	1.00	1.00	%	1	---	86.3	---	---	1	10%	
Duplicate (23H0895-DUP4)												
						Prepared: 08/24/23 10:13 Analyzed: 08/25/23 07:42						TEMP
<u>QC Source Sample: Non-SDG (A3H1310-04)</u>												
% Solids	83.9	1.00	1.00	%	1	---	89.1	---	---	6	10%	
Duplicate (23H0895-DUP5)												
						Prepared: 08/24/23 10:13 Analyzed: 08/25/23 07:42						TEMP
<u>QC Source Sample: Non-SDG (A3H1310-05)</u>												
% Solids	89.6	1.00	1.00	%	1	---	89.5	---	---	0.1	10%	
Duplicate (23H0895-DUP6)												
						Prepared: 08/24/23 10:13 Analyzed: 08/25/23 07:42						TEMP
<u>QC Source Sample: Non-SDG (A3H1310-06)</u>												
% Solids	86.5	1.00	1.00	%	1	---	87.2	---	---	0.8	10%	
Duplicate (23H0895-DUP7)												
						Prepared: 08/24/23 10:13 Analyzed: 08/25/23 07:42						TEMP
<u>QC Source Sample: Non-SDG (A3H1310-07)</u>												
% Solids	73.3	1.00	1.00	%	1	---	71.4	---	---	3	10%	
Duplicate (23H0895-DUP8)												
						Prepared: 08/24/23 19:52 Analyzed: 08/25/23 07:42						TEMP
<u>QC Source Sample: Non-SDG (A3H1353-01)</u>												
% Solids	91.6	1.00	1.00	%	1	---	91.6	---	---	0.08	10%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0895 - Total Solids (Dry Weight) - 2022							Soil					
Duplicate (23H0895-DUP9)					Prepared: 08/24/23 19:52 Analyzed: 08/25/23 07:42							
QC Source Sample: Non-SDG (A3H1370-02)												
% Solids	94.0	1.00	1.00	%	1	---	95.4	---	---	1	10%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Darwin Thomas, Business Development Director



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SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23H1010</u>							
A3H1300-01	Solid	NWTPH-Dx	08/22/23 00:00	08/28/23 12:00	10.39g/5mL	10g/5mL	0.96

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23H0884</u>							
A3H1300-01	Solid	NWTPH-Gx (MS)	08/22/23 00:00	08/23/23 11:30	3.45g/5mL	5g/5mL	1.45

Volatile Organic Compounds by EPA 8260D

Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23H0884</u>							
A3H1300-01	Solid	5035A/8260D	08/22/23 00:00	08/23/23 11:30	3.45g/5mL	5g/5mL	1.45

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Prep: EPA 1311/5030C TCLP Volatiles					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23H0939</u>							
A3H1300-01	Solid	1311/8260D	08/22/23 00:00	08/25/23 11:45	5mL/5mL	5mL/5mL	1.00

Semivolatile Organic Compounds by EPA 8270E

Prep: EPA 3546					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23H1038</u>							
A3H1300-01	Solid	EPA 8270E	08/22/23 00:00	08/29/23 08:09	15.04g/2mL	15g/2mL	1.00

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3051A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23I0093</u>							
A3H1300-01	Solid	EPA 6020B	08/22/23 00:00	09/05/23 11:41	0.474g/50mL	0.5g/50mL	1.05

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SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3051A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
A3H1300-01RE1	Solid	EPA 6020B	08/22/23 00:00	09/05/23 11:41	0.474g/50mL	0.5g/50mL	1.05

TCLP Metals by EPA 6020B (ICPMS)

Prep: EPA 1311/3015A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 2310035</u>							
A3H1300-01	Solid	1311/6020B	08/22/23 00:00	09/01/23 11:21	10mL/50mL	10mL/50mL	1.00

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Prep: ASTM D7511-12mod (S)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23H1057</u>							
A3H1300-01	Solid	D7511-12	08/22/23 00:00	08/29/23 10:05	2.5087g/50mL	2.5g/50mL	1.00

Percent Dry Weight

Prep: Total Solids (Dry Weight) - 2022					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23H0895</u>							
A3H1300-01	Solid	EPA 8000D	08/22/23 00:00	08/24/23 10:13			NA

TCLP Extraction by EPA 1311

Prep: EPA 1311 (TCLP)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23H1124</u>							
A3H1300-01	Solid	EPA 1311	08/22/23 00:00	08/30/23 14:52	100g/2000.2g	100g/2000g	NA

Prep: EPA 1311 TCLP/ZHE					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23H0911</u>							
A3H1300-01	Solid	EPA 1311 ZHE	08/22/23 00:00	08/24/23 14:08	25g/502.7g	25g/500g	NA

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc.
2749 Lockport Road
Niagara Falls, NY 14305

Project: Gasco -- Filtercake
Project Number: 111323
Project Manager: Chip Byrd

Report ID:
A3H1300 - 09 08 23 0728

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- B** Analyte detected in an associated blank at a level above the MRL. (See Notes and Conventions below.)
- CONT** The Sample Container provided for this analysis was not provided by Apex Laboratories, and has not been verified as part of the Apex Quality System.
- F-03** The result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.
- F-13** The chromatographic pattern does not resemble the fuel standard used for quantitation
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- M-02** Due to matrix interference, this analyte cannot be accurately quantified. The reported result is estimated.
- M-05** Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
- Q-01** Spike recovery and/or RPD is outside acceptance limits.
- Q-04** Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- Q-16** Reanalysis of an original Batch QC sample.
- Q-18** Matrix Spike results for this extraction batch are not reported due to the high dilution necessary for analysis of the source sample.
- Q-29** Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
- Q-41** Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- Q-42** Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
- Q-52** Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
- Q-54** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -48%. The results are reported as Estimated Values.
- Q-55** Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- TCLP** This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23H0911.
- TCLPa** This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23H1124.
- TEMP** Sample was received outside of recommended temperature.
- V-15** Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.

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ORELAP ID: **OR100062**

<u>Sevenson Environmental Services, Inc.</u> 2749 Lockport Road Niagara Falls, NY 14305	Project: <u>Gasco -- Filtercake</u> Project Number: 111323 Project Manager: Chip Byrd	<u>Report ID:</u> A3H1300 - 09 08 23 0728
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Apex Laboratories

A handwritten signature in black ink, appearing to read "Darwin Thomas".

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Darwin Thomas, Business Development Director



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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3H1300 - 09 08 23 0728
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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

- DET Analyte DETECTED at or above the detection or reporting limit.
- ND Analyte NOT DETECTED at or above the detection or reporting limit.
- NR Result Not Reported
- RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

" dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

" wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

Results for Volatiles analyses on soils and sediments that are reported on a "dry weight" basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an "As Received" basis do not have the WMS correction applied, as dry weight was not performed.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

- " --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- " *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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Project: Gasco -- Filtercake
Project Number: 111323
Project Manager: Chip Byrd

Report ID:
A3H1300 - 09 08 23 0728

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

- Standard practice is to evaluate the results from Blank QC Samples down to a level equal to 1/2 the Reporting Limit (RL).
- For Blank hits falling between 1/2 the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
- For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
- For further details, please request a copy of this document.
- Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.
- 'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3H1300 - 09 08 23 0728
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LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -
EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
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All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

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2749 Lockport Road
Niagara Falls, NY 14305

Project: Gasco -- Filtercake
Project Number: 111323
Project Manager: Chip Byrd

Report ID:
A3H1300 - 09 08 23 0728

CHAIN OF CUSTODY
APEX LABS
Company: Sevenson Environmental Services, Inc.
Address: 2749 Lockport Road, Niagara Falls, NY 14305
Sampled by: Emily S. Finkelstein M
Project Mgr: Chip Byrd
Project Name: Gasco -- Filtercake
Project # 111323
E-mail: wbyrd@sevenson.com
Phone: (716) 583-2754
Fax:
ANALYSIS REQUEST
SAMPLE ID FC-082223-2167
DATE 8/23/23
TIME 0955
LAB ID #
OF CONTAINERS 1
MATRIX S
8260 VOCs X
1311/8260 TCPL VOCs X
8270D LL Full List X
Metals, RCRA 8 X
Metals, TPCL X
Total Cyanide X
NWTPH -DX X
NWTPH-GX X
SPECIAL INSTRUCTIONS:
TAT Requested (circle) 1 DAY 2 DAY 3 DAY 4 DAY
5 DAY STD Other
RELIQUISHED BY: Signature: Date: 8-23-23
Printed Name: Dave Snyder
Company: SES
RECEIVED BY: Signature: Date:
Printed Name:
Company:
SAMPLES ARE HELD FOR 30 DAYS
Date: 8-23-23
Time: 0955
Signature: [Handwritten]
Printed Name: [Handwritten]
Company: [Handwritten]

Apex Laboratories

[Signature]

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. Project: Gasco -- Filtercake
2749 Lockport Road Project Number: 111323
Niagara Falls, NY 14305 Project Manager: Chip Byrd Report ID: A3H1300 - 09 08 23 0728

APEX LABS COOLER RECEIPT FORM

Client: Sevenson Environmental Services Element WO#: A3H1300
Project/Project #: Gasco - Filtercake 111323

Delivery Info:

Date/time received: 8/23/23 @ 955 By: EST
Delivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen Other

Cooler Inspection Date/time inspected: 8/23/23 @ 1042 By: EST

Chain of Custody included? Yes X No

Signed/dated by client? Yes X No

Table with 7 columns: Cooler #1 to Cooler #7. Rows include Temperature (1.6), Custody seals (N), Received on ice (Y), Temp. blanks (Y), Ice type (Gel), and Condition (In).

Cooler out of temp? (N) Possible reason why:
Green dots applied to out of temperature samples? Yes/No
Out of temperature samples form initiated? Yes/No

Sample Inspection: Date/time inspected: 8/23/23 @ 11:19 By: Kam

All samples intact? Yes X No Comments:

Bottle labels/COCs agree? Yes X No Comments:

COC/container discrepancies form initiated? Yes No X

Containers/volumes received appropriate for analysis? Yes X No Comments:

Do VOA vials have visible headspace? Yes No NA X

Comments:

Water samples: pH checked: Yes No NAX pH appropriate? Yes No NAX

Comments:

Additional information:

Labeled by: Kam Witness: DSS Cooler Inspected by: Kam

Form Y-003 R-00

Apex Laboratories

Signature of Darwin Thomas

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Wednesday, October 18, 2023

Chip Byrd
Sevenson Environmental Services, Inc.
2749 Lockport Road
Niagara Falls, NY 14305

RE: A311260 - Gasco -- Filtercake - 111323

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A311260, which was received by the laboratory on 9/20/2023 at 10:07:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information
Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.
(See Cooler Receipt Form for details)
Default Cooler 2.5 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report. All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

Darwin Thomas signature

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FC-091923-2182	A311260-01	Solid	09/19/23 02:00	09/20/23 10:07

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ANALYTICAL REPORT

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 Tigard, OR 97223
 503-718-2323
 ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3I1260 - 10 18 23 1006
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
FC-091923-2182 (A3I1260-01)				Matrix: Solid		Batch: 23J0006			
Diesel	9260000	1360000	2720000	ug/kg dry	20	10/03/23 04:42	NWTPH-Dx	F-13	
Oil	ND	2720000	5440000	ug/kg dry	20	10/03/23 04:42	NWTPH-Dx		
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: %</i>		<i>Limits: 50-150 %</i>		<i>20</i>	<i>10/03/23 04:42</i>	<i>NWTPH-Dx</i>	<i>S-01</i>

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-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-091923-2182 (A3I1260-01RE1)				Matrix: Solid		Batch: 23I0840		V-15
Gasoline Range Organics	87000	14000	28000	ug/kg dry	50	09/26/23 18:08	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 108 %</i>		<i>Limits: 50-150 %</i>		09/26/23 18:08	NWTPH-Gx (MS)	
<i>1,4-Difluorobenzene (Sur)</i>		<i>106 %</i>		<i>50-150 %</i>		09/26/23 18:08	NWTPH-Gx (MS)	

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-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-091923-2182 (A3I1260-01RE1)				Matrix: Solid		Batch: 2310840		V-15
Acetone	ND	2800	5600	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
Benzene	56.0	28.0	56.0	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
Bromobenzene	ND	70.0	140	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
Bromochloromethane	ND	140	280	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
Bromodichloromethane	ND	140	280	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
Bromoform	ND	280	560	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
Bromomethane	ND	2800	2800	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
2-Butanone (MEK)	ND	1400	2800	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
n-Butylbenzene	224	140	280	ug/kg dry	50	09/26/23 18:08	5035A/8260D	J
sec-Butylbenzene	ND	140	280	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
tert-Butylbenzene	ND	140	280	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
Carbon tetrachloride	ND	140	280	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
Chlorobenzene	ND	70.0	140	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
Chloroethane	ND	1400	2800	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
Chloroform	ND	140	280	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
Chloromethane	ND	700	1400	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
2-Chlorotoluene	ND	140	280	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
4-Chlorotoluene	ND	140	280	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
Dibromochloromethane	ND	280	560	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	700	1400	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	140	280	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
Dibromomethane	ND	140	280	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
1,2-Dichlorobenzene	ND	70.0	140	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
1,3-Dichlorobenzene	ND	70.0	140	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
1,4-Dichlorobenzene	ND	70.0	140	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
Dichlorodifluoromethane	ND	280	560	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
1,1-Dichloroethane	ND	70.0	140	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	70.0	140	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
1,1-Dichloroethene	ND	70.0	140	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
cis-1,2-Dichloroethene	ND	70.0	140	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
trans-1,2-Dichloroethene	ND	70.0	140	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
1,2-Dichloropropane	ND	70.0	140	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
1,3-Dichloropropane	ND	140	280	ug/kg dry	50	09/26/23 18:08	5035A/8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3I1260 - 10 18 23 1006
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-091923-2182 (A3I1260-01RE1)				Matrix: Solid		Batch: 2310840		V-15
2,2-Dichloropropane	ND	140	280	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
1,1-Dichloropropene	ND	140	280	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
cis-1,3-Dichloropropene	ND	140	280	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
trans-1,3-Dichloropropene	ND	140	280	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
Ethylbenzene	95.1	70.0	140	ug/kg dry	50	09/26/23 18:08	5035A/8260D	J
Hexachlorobutadiene	ND	280	560	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
2-Hexanone	ND	1400	2800	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
Isopropylbenzene	ND	140	280	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
4-Isopropyltoluene	ND	140	280	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
Methylene chloride	ND	1400	2800	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
4-Methyl-2-pentanone (MIBK)	ND	1400	2800	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	140	280	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
n-Propylbenzene	70.0	70.0	140	ug/kg dry	50	09/26/23 18:08	5035A/8260D	J
Styrene	ND	140	280	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	70.0	140	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	140	280	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
Tetrachloroethene (PCE)	ND	70.0	140	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
Toluene	ND	140	280	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
1,2,3-Trichlorobenzene	ND	700	1400	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
1,2,4-Trichlorobenzene	ND	1400	1400	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
1,1,1-Trichloroethane	ND	70.0	140	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
1,1,2-Trichloroethane	ND	70.0	140	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
Trichloroethene (TCE)	ND	70.0	140	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
Trichlorofluoromethane	ND	280	560	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
1,2,3-Trichloropropane	ND	140	280	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
1,2,4-Trimethylbenzene	369	140	280	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
1,3,5-Trimethylbenzene	143	140	280	ug/kg dry	50	09/26/23 18:08	5035A/8260D	J
Vinyl chloride	ND	70.0	140	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
m,p-Xylene	ND	140	280	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
o-Xylene	ND	70.0	140	ug/kg dry	50	09/26/23 18:08	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>09/26/23 18:08</i>	<i>5035A/8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>1</i>	<i>09/26/23 18:08</i>	<i>5035A/8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>79-120 %</i>		<i>1</i>	<i>09/26/23 18:08</i>	<i>5035A/8260D</i>

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3I1260 - 10 18 23 1006
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-091923-2182 (A3I1260-01RE2)				Matrix: Solid		Batch: 23I0960		
Naphthalene	6250	280	560	ug/kg dry	50	09/28/23 20:06	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 116 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>09/28/23 20:06</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>			<i>97 %</i>	<i>80-120 %</i>	<i>1</i>	<i>09/28/23 20:06</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>100 %</i>	<i>79-120 %</i>	<i>1</i>	<i>09/28/23 20:06</i>	<i>5035A/8260D</i>	

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Darwin Thomas, Business Development Director



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ANALYTICAL SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-091923-2182 (A3I1260-01)				Matrix: Solid		Batch: 23I0913		
Benzene	ND	6.25	12.5	ug/L	50	09/28/23 04:08	1311/8260D	
2-Butanone (MEK)	ND	250	500	ug/L	50	09/28/23 04:08	1311/8260D	
Carbon tetrachloride	ND	12.5	25.0	ug/L	50	09/28/23 04:08	1311/8260D	
Chlorobenzene	ND	12.5	25.0	ug/L	50	09/28/23 04:08	1311/8260D	
Chloroform	ND	25.0	50.0	ug/L	50	09/28/23 04:08	1311/8260D	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	09/28/23 04:08	1311/8260D	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	09/28/23 04:08	1311/8260D	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	09/28/23 04:08	1311/8260D	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	09/28/23 04:08	1311/8260D	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	09/28/23 04:08	1311/8260D	
Vinyl chloride	ND	12.5	25.0	ug/L	50	09/28/23 04:08	1311/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 108 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>09/28/23 04:08</i>	<i>1311/8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>103 %</i>		<i>80-120 %</i>		<i>1</i>	<i>09/28/23 04:08</i>	<i>1311/8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>09/28/23 04:08</i>	<i>1311/8260D</i>

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Darwin Thomas, Business Development Director



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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3I1260 - 10 18 23 1006
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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-091923-2182 (A3I1260-01)				Matrix: Solid		Batch: 23I0893		
Acenaphthene	52600	2670	5370	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Acenaphthylene	ND	5370	5370	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Anthracene	51700	2670	5370	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Benz(a)anthracene	29600	2670	5370	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Benzo(a)pyrene	32000	4020	8040	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Benzo(b)fluoranthene	26200	4020	8040	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Benzo(k)fluoranthene	10900	4020	8040	ug/kg dry	200	09/27/23 22:29	EPA 8270E	M-05
Benzo(g,h,i)perylene	20000	2670	5370	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Chrysene	39900	2670	5370	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Dibenz(a,h)anthracene	ND	2670	5370	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Fluoranthene	155000	2670	5370	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Fluorene	34500	2670	5370	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Indeno(1,2,3-cd)pyrene	17000	2670	5370	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
1-Methylnaphthalene	12100	5370	10700	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
2-Methylnaphthalene	9160	5370	10700	ug/kg dry	200	09/27/23 22:29	EPA 8270E	J
Naphthalene	ND	5370	10700	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Phenanthrene	283000	2670	5370	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Pyrene	178000	2670	5370	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Carbazole	ND	4020	8040	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Dibenzofuran	ND	5370	5370	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
2-Chlorophenol	ND	13400	26700	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
4-Chloro-3-methylphenol	ND	26700	53700	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
2,4-Dichlorophenol	ND	13400	26700	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
2,4-Dimethylphenol	ND	13400	26700	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
2,4-Dinitrophenol	ND	66900	134000	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	66900	134000	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
2-Methylphenol	ND	6690	13400	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
3+4-Methylphenol(s)	ND	6690	13400	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
2-Nitrophenol	ND	26700	53700	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
4-Nitrophenol	ND	26700	53700	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Pentachlorophenol (PCP)	ND	26700	53700	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Phenol	ND	5370	10700	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	13400	26700	ug/kg dry	200	09/27/23 22:29	EPA 8270E	

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 ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3I1260 - 10 18 23 1006
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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-091923-2182 (A3I1260-01)				Matrix: Solid		Batch: 2310893		
2,3,5,6-Tetrachlorophenol	ND	13400	26700	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
2,4,5-Trichlorophenol	ND	13400	26700	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
2,4,6-Trichlorophenol	ND	13400	26700	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	40200	80400	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Butyl benzyl phthalate	ND	26700	53700	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Diethylphthalate	ND	26700	53700	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Dimethylphthalate	ND	26700	53700	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Di-n-butylphthalate	ND	26700	53700	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Di-n-octyl phthalate	ND	26700	53700	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
N-Nitrosodimethylamine	ND	6690	13400	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	6690	13400	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
N-Nitrosodiphenylamine	ND	13400	13400	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	6690	13400	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	6690	13400	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	6690	13400	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Hexachlorobenzene	ND	2670	5370	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Hexachlorobutadiene	ND	6690	13400	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Hexachlorocyclopentadiene	ND	13400	26700	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Hexachloroethane	ND	6690	13400	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
2-Chloronaphthalene	ND	2670	5370	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
1,2,4-Trichlorobenzene	ND	6690	13400	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
4-Bromophenyl phenyl ether	ND	6690	13400	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	6690	13400	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Aniline	ND	13400	26700	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
4-Chloroaniline	ND	6690	13400	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
2-Nitroaniline	ND	53700	107000	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
3-Nitroaniline	ND	53700	107000	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
4-Nitroaniline	ND	53700	107000	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Nitrobenzene	ND	26700	53700	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
2,4-Dinitrotoluene	ND	26700	53700	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
2,6-Dinitrotoluene	ND	26700	53700	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Benzoic acid	ND	336000	669000	ug/kg dry	200	09/27/23 22:29	EPA 8270E	
Benzyl alcohol	ND	13400	26700	ug/kg dry	200	09/27/23 22:29	EPA 8270E	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3I1260 - 10 18 23 1006
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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
FC-091923-2182 (A3I1260-01)				Matrix: Solid		Batch: 23I0893			
Isophorone	ND	6690	13400	ug/kg dry	200	09/27/23 22:29	EPA 8270E		
Azobenzene (1,2-DPH)	ND	6690	13400	ug/kg dry	200	09/27/23 22:29	EPA 8270E		
Bis(2-Ethylhexyl) adipate	ND	66900	134000	ug/kg dry	200	09/27/23 22:29	EPA 8270E		
3,3'-Dichlorobenzidine	ND	53700	107000	ug/kg dry	200	09/27/23 22:29	EPA 8270E	Q-52	
1,2-Dinitrobenzene	ND	66900	134000	ug/kg dry	200	09/27/23 22:29	EPA 8270E		
1,3-Dinitrobenzene	ND	66900	134000	ug/kg dry	200	09/27/23 22:29	EPA 8270E		
1,4-Dinitrobenzene	ND	66900	134000	ug/kg dry	200	09/27/23 22:29	EPA 8270E		
Pyridine	ND	13400	26700	ug/kg dry	200	09/27/23 22:29	EPA 8270E		
1,2-Dichlorobenzene	ND	6690	13400	ug/kg dry	200	09/27/23 22:29	EPA 8270E		
1,3-Dichlorobenzene	ND	6690	13400	ug/kg dry	200	09/27/23 22:29	EPA 8270E		
1,4-Dichlorobenzene	ND	6690	13400	ug/kg dry	200	09/27/23 22:29	EPA 8270E		
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 66 %</i>		<i>Limits: 37-122 %</i>		<i>200</i>	<i>09/27/23 22:29</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>2-Fluorobiphenyl (Surr)</i>		<i>80 %</i>		<i>44-120 %</i>		<i>200</i>	<i>09/27/23 22:29</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>Phenol-d6 (Surr)</i>		<i>47 %</i>		<i>33-122 %</i>		<i>200</i>	<i>09/27/23 22:29</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>80 %</i>		<i>54-127 %</i>		<i>200</i>	<i>09/27/23 22:29</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>2-Fluorophenol (Surr)</i>		<i>39 %</i>		<i>35-120 %</i>		<i>200</i>	<i>09/27/23 22:29</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>2,4,6-Tribromophenol (Surr)</i>		<i>%</i>		<i>39-132 %</i>		<i>200</i>	<i>09/27/23 22:29</i>	<i>EPA 8270E</i>	<i>S-01</i>

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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-091923-2182 (A3I1260-01)				Matrix: Solid				
Batch: 23J0037								
Arsenic	8790	1790	3580	ug/kg dry	10	10/02/23 21:36	EPA 6020B	
Barium	197000	1790	3580	ug/kg dry	10	10/02/23 21:36	EPA 6020B	
Cadmium	ND	358	715	ug/kg dry	10	10/02/23 21:36	EPA 6020B	
Chromium	ND	1790	3580	ug/kg dry	10	10/02/23 21:36	EPA 6020B	
Lead	ND	358	715	ug/kg dry	10	10/02/23 21:36	EPA 6020B	
Mercury	ND	143	286	ug/kg dry	10	10/02/23 21:36	EPA 6020B	
Selenium	ND	1790	3580	ug/kg dry	10	10/02/23 21:36	EPA 6020B	
Silver	ND	358	715	ug/kg dry	10	10/02/23 21:36	EPA 6020B	

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3I1260 - 10 18 23 1006
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ANALYTICAL SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-091923-2182 (A3I1260-01)				Matrix: Solid				
Batch: 23I0896								
Arsenic	ND	50.0	100	ug/L	10	09/27/23 19:04	1311/6020B	
Barium	ND	2500	5000	ug/L	10	09/27/23 19:04	1311/6020B	
Cadmium	ND	50.0	100	ug/L	10	09/27/23 19:04	1311/6020B	
Chromium	ND	50.0	100	ug/L	10	09/27/23 19:04	1311/6020B	
Lead	ND	25.0	50.0	ug/L	10	09/27/23 19:04	1311/6020B	
Mercury	ND	3.75	7.00	ug/L	10	09/27/23 19:04	1311/6020B	
Silver	ND	50.0	100	ug/L	10	09/27/23 19:04	1311/6020B	
FC-091923-2182 (A3I1260-01RE2)				Matrix: Solid				
Batch: 23I0896								
Selenium	ND	50.0	100	ug/L	10	09/28/23 11:55	1311/6020B	

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ANALYTICAL SAMPLE RESULTS

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-091923-2182 (A3I1260-01)				Matrix: Solid		Batch: 23J0013		
Total Cyanide	7020	847	1690	ug/kg dry	5	10/03/23 16:09	D7511-12	Q-42

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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-091923-2182 (A3I1260-01)				Matrix: Solid		Batch: 23I0688		
% Solids	29.4	---	1.00	%	1	09/22/23 06:30	EPA 8000D	

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ANALYTICAL SAMPLE RESULTS

TCLP Extraction by EPA 1311

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-091923-2182 (A3I1260-01)				Matrix: Solid		Batch: 23I0823		
TCLP Extraction	PREP	---		N/A	1	09/26/23 15:40	EPA 1311	
TCLP ZHE Extraction	PREP	---		N/A	1	09/26/23 14:08	EPA 1311 ZHE	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J0006 - EPA 3546 (Fuels)						Solid						
Blank (23J0006-BLK1)						Prepared: 10/02/23 05:07 Analyzed: 10/03/23 03:19						
<u>NWTPH-Dx</u>												
Diesel	ND	10000	20000	ug/kg wet	1	---	---	---	---	---	---	
Oil	ND	20000	40000	ug/kg wet	1	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 74 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
LCS (23J0006-BS1)						Prepared: 10/02/23 05:07 Analyzed: 10/03/23 03:40						
<u>NWTPH-Dx</u>												
Diesel	96400	10000	20000	ug/kg wet	1	125000	---	77	38-132%	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 85 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
Duplicate (23J0006-DUP1)						Prepared: 10/02/23 05:07 Analyzed: 10/03/23 04:21						
<u>QC Source Sample: Non-SDG (A311258-01)</u>												
Diesel	13600000 0	5950000	11900000	ug/kg dry	20	---	12000000	---	---	13	30%	
Oil	11200000 0	11900000	23800000	ug/kg dry	20	---	96100000	---	---	15	30%	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 20x</i>						<i>S-01</i>

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310787 - EPA 5035A						Soil						
Blank (2310787-BLK1)			Prepared: 09/25/23 10:50 Analyzed: 09/25/23 13:23									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	2500	5000	ug/kg wet	50	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 95 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>111 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (2310787-BS2)						Prepared: 09/25/23 10:50 Analyzed: 09/25/23 12:53						
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	26200	2500	5000	ug/kg wet	50	25000	---	105	80-120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 96 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>111 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (2310787-DUP1)						Prepared: 09/20/23 14:45 Analyzed: 09/25/23 15:57						
<u>QC Source Sample: Non-SDG (A311356-01)</u>												
Gasoline Range Organics	ND	2740	5480	ug/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 98 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>114 %</i>		<i>50-150 %</i>		<i>"</i>						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310840 - EPA 5035A						Soil						
Blank (2310840-BLK1)						Prepared: 09/26/23 10:57 Analyzed: 09/26/23 13:50						
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	2500	5000	ug/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 95 %	Limits: 50-150 %			Dilution: 1x						
1,4-Difluorobenzene (Sur)		116 %	50-150 %			"						
LCS (2310840-BS2)						Prepared: 09/26/23 10:57 Analyzed: 09/26/23 13:20						
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	26500	2500	5000	ug/kg wet	50	25000	---	106	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 95 %	Limits: 50-150 %			Dilution: 1x						
1,4-Difluorobenzene (Sur)		115 %	50-150 %			"						
Duplicate (2310840-DUP1)						Prepared: 09/21/23 16:35 Analyzed: 09/26/23 20:42						
<u>QC Source Sample: Non-SDG (A311359-08)</u>												
Gasoline Range Organics	ND	117000	234000	ug/kg dry	500	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 93 %	Limits: 50-150 %			Dilution: 1x						
1,4-Difluorobenzene (Sur)		106 %	50-150 %			"						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310787 - EPA 5035A						Soil						
Blank (2310787-BLK1)			Prepared: 09/25/23 10:50 Analyzed: 09/25/23 13:23									
<u>5035A/8260D</u>												
Acetone	ND	500	1000	ug/kg wet	50	---	---	---	---	---	---	
Acrylonitrile	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Benzene	ND	5.00	10.0	ug/kg wet	50	---	---	---	---	---	---	
Bromobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Bromochloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromodichloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromoform	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Bromomethane	ND	500	500	ug/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
n-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Carbon disulfide	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Chloroethane	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chloromethane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromochloromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromomethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310787 - EPA 5035A						Soil						
Blank (2310787-BLK1)			Prepared: 09/25/23 10:50 Analyzed: 09/25/23 13:23									
1,2-Dichloropropane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Methylene chloride	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
4-Methyl-2-pentanone (MIBK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	100	100	ug/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Styrene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 95 % Limits: 80-120 % Dilution: 1x

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310787 - EPA 5035A						Soil						
Blank (2310787-BLK1)						Prepared: 09/25/23 10:50 Analyzed: 09/25/23 13:23						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>79-120 %</i>		<i>"</i>						
LCS (2310787-BS1)						Prepared: 09/25/23 10:50 Analyzed: 09/25/23 12:27						
5035A/8260D												
Acetone	3070	500	1000	ug/kg wet	50	2000	---	154	80-120%	---	---	Q-56
Acrylonitrile	1070	50.0	100	ug/kg wet	50	1000	---	107	80-120%	---	---	
Benzene	1030	5.00	10.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
Bromobenzene	975	12.5	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Bromochloromethane	1260	25.0	50.0	ug/kg wet	50	1000	---	126	80-120%	---	---	Q-56
Bromodichloromethane	1090	25.0	50.0	ug/kg wet	50	1000	---	109	80-120%	---	---	
Bromoform	972	50.0	100	ug/kg wet	50	1000	---	97	80-120%	---	---	
Bromomethane	1710	500	500	ug/kg wet	50	1000	---	171	80-120%	---	---	Q-56
2-Butanone (MEK)	2640	250	500	ug/kg wet	50	2000	---	132	80-120%	---	---	Q-56
n-Butylbenzene	1060	25.0	50.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
sec-Butylbenzene	1050	25.0	50.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
tert-Butylbenzene	970	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
Carbon disulfide	1310	250	500	ug/kg wet	50	1000	---	131	80-120%	---	---	Q-56
Carbon tetrachloride	1090	25.0	50.0	ug/kg wet	50	1000	---	109	80-120%	---	---	
Chlorobenzene	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
Chloroethane	1560	250	500	ug/kg wet	50	1000	---	156	80-120%	---	---	Q-56
Chloroform	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Chloromethane	1140	125	250	ug/kg wet	50	1000	---	114	80-120%	---	---	
2-Chlorotoluene	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
4-Chlorotoluene	1050	25.0	50.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
Dibromochloromethane	1140	50.0	100	ug/kg wet	50	1000	---	114	80-120%	---	---	
1,2-Dibromo-3-chloropropane	883	125	250	ug/kg wet	50	1000	---	88	80-120%	---	---	
1,2-Dibromoethane (EDB)	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Dibromomethane	1060	25.0	50.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
1,2-Dichlorobenzene	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
1,3-Dichlorobenzene	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
1,4-Dichlorobenzene	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Dichlorodifluoromethane	1660	50.0	100	ug/kg wet	50	1000	---	166	80-120%	---	---	Q-56
1,1-Dichloroethane	1100	12.5	25.0	ug/kg wet	50	1000	---	110	80-120%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
						Soil						
Batch 2310787 - EPA 5035A												
LCS (2310787-BS1)						Prepared: 09/25/23 10:50 Analyzed: 09/25/23 12:27						
1,2-Dichloroethane (EDC)	1160	12.5	25.0	ug/kg wet	50	1000	---	116	80-120%	---	---	
1,1-Dichloroethene	1400	12.5	25.0	ug/kg wet	50	1000	---	140	80-120%	---	---	Q-56
cis-1,2-Dichloroethene	1100	12.5	25.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
trans-1,2-Dichloroethene	1100	12.5	25.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
1,2-Dichloropropane	1080	12.5	25.0	ug/kg wet	50	1000	---	108	80-120%	---	---	
1,3-Dichloropropane	1090	25.0	50.0	ug/kg wet	50	1000	---	109	80-120%	---	---	
2,2-Dichloropropane	1070	25.0	50.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
1,1-Dichloropropene	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
cis-1,3-Dichloropropene	1100	25.0	50.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
trans-1,3-Dichloropropene	1180	25.0	50.0	ug/kg wet	50	1000	---	118	80-120%	---	---	
Ethylbenzene	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
Hexachlorobutadiene	964	50.0	100	ug/kg wet	50	1000	---	96	80-120%	---	---	
2-Hexanone	2020	250	500	ug/kg wet	50	2000	---	101	80-120%	---	---	
Isopropylbenzene	955	25.0	50.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
4-Isopropyltoluene	990	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
Methylene chloride	1070	250	500	ug/kg wet	50	1000	---	107	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	2170	250	500	ug/kg wet	50	2000	---	108	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	970	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
Naphthalene	778	100	100	ug/kg wet	50	1000	---	78	80-120%	---	---	Q-55
n-Propylbenzene	1080	12.5	25.0	ug/kg wet	50	1000	---	108	80-120%	---	---	
Styrene	978	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
1,1,1,2-Tetrachloroethane	1060	12.5	25.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
1,1,2,2-Tetrachloroethane	1130	25.0	50.0	ug/kg wet	50	1000	---	113	80-120%	---	---	
Tetrachloroethene (PCE)	962	12.5	25.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
Toluene	1060	25.0	50.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
1,2,3-Trichlorobenzene	865	125	250	ug/kg wet	50	1000	---	86	80-120%	---	---	
1,2,4-Trichlorobenzene	804	125	250	ug/kg wet	50	1000	---	80	80-120%	---	---	
1,1,1-Trichloroethane	1050	12.5	25.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
1,1,2-Trichloroethane	1090	12.5	25.0	ug/kg wet	50	1000	---	109	80-120%	---	---	
Trichloroethene (TCE)	928	12.5	25.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
Trichlorofluoromethane	1630	50.0	100	ug/kg wet	50	1000	---	163	80-120%	---	---	Q-56
1,2,3-Trichloropropane	1180	25.0	50.0	ug/kg wet	50	1000	---	118	80-120%	---	---	
1,2,4-Trimethylbenzene	1050	25.0	50.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
1,3,5-Trimethylbenzene	1080	25.0	50.0	ug/kg wet	50	1000	---	108	80-120%	---	---	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310787 - EPA 5035A												
Soil												
LCS (2310787-BS1)												
						Prepared: 09/25/23 10:50 Analyzed: 09/25/23 12:27						
Vinyl chloride	1380	12.5	25.0	ug/kg wet	50	1000	---	138	80-120%	---	---	Q-56
m,p-Xylene	2090	25.0	50.0	ug/kg wet	50	2000	---	104	80-120%	---	---	
o-Xylene	912	12.5	25.0	ug/kg wet	50	1000	---	91	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 96 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>105 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>90 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (2310787-DUP1) Prepared: 09/20/23 14:45 Analyzed: 09/25/23 15:57

QC Source Sample: Non-SDG (A311356-01)

Acetone	ND	548	1100	ug/kg dry	50	---	ND	---	---	---	30%
Acrylonitrile	ND	54.8	110	ug/kg dry	50	---	ND	---	---	---	30%
Benzene	ND	5.48	11.0	ug/kg dry	50	---	ND	---	---	---	30%
Bromobenzene	ND	13.7	27.4	ug/kg dry	50	---	ND	---	---	---	30%
Bromochloromethane	ND	27.4	54.8	ug/kg dry	50	---	ND	---	---	---	30%
Bromodichloromethane	ND	27.4	54.8	ug/kg dry	50	---	ND	---	---	---	30%
Bromoform	ND	54.8	110	ug/kg dry	50	---	ND	---	---	---	30%
Bromomethane	ND	548	548	ug/kg dry	50	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	274	548	ug/kg dry	50	---	ND	---	---	---	30%
n-Butylbenzene	ND	27.4	54.8	ug/kg dry	50	---	ND	---	---	---	30%
sec-Butylbenzene	ND	27.4	54.8	ug/kg dry	50	---	ND	---	---	---	30%
tert-Butylbenzene	ND	27.4	54.8	ug/kg dry	50	---	ND	---	---	---	30%
Carbon disulfide	ND	274	548	ug/kg dry	50	---	ND	---	---	---	30%
Carbon tetrachloride	ND	27.4	54.8	ug/kg dry	50	---	ND	---	---	---	30%
Chlorobenzene	ND	13.7	27.4	ug/kg dry	50	---	ND	---	---	---	30%
Chloroethane	ND	274	548	ug/kg dry	50	---	ND	---	---	---	30%
Chloroform	ND	27.4	54.8	ug/kg dry	50	---	ND	---	---	---	30%
Chloromethane	ND	137	274	ug/kg dry	50	---	ND	---	---	---	30%
2-Chlorotoluene	ND	27.4	54.8	ug/kg dry	50	---	ND	---	---	---	30%
4-Chlorotoluene	ND	27.4	54.8	ug/kg dry	50	---	ND	---	---	---	30%
Dibromochloromethane	ND	54.8	110	ug/kg dry	50	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	137	274	ug/kg dry	50	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	27.4	54.8	ug/kg dry	50	---	ND	---	---	---	30%
Dibromomethane	ND	27.4	54.8	ug/kg dry	50	---	ND	---	---	---	30%
1,2-Dichlorobenzene	ND	13.7	27.4	ug/kg dry	50	---	ND	---	---	---	30%

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310787 - EPA 5035A							Soil					
Duplicate (2310787-DUP1)			Prepared: 09/20/23 14:45 Analyzed: 09/25/23 15:57									
QC Source Sample: Non-SDG (A311356-01)												
1,3-Dichlorobenzene	ND	13.7	27.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	13.7	27.4	ug/kg dry	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	54.8	110	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	13.7	27.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	13.7	27.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	13.7	27.4	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	13.7	27.4	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	13.7	27.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	13.7	27.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	27.4	54.8	ug/kg dry	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	27.4	54.8	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	27.4	54.8	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	27.4	54.8	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	27.4	54.8	ug/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	13.7	27.4	ug/kg dry	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	54.8	110	ug/kg dry	50	---	ND	---	---	---	30%	
2-Hexanone	ND	274	548	ug/kg dry	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	27.4	54.8	ug/kg dry	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	27.4	54.8	ug/kg dry	50	---	ND	---	---	---	30%	
Methylene chloride	ND	274	548	ug/kg dry	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MIBK)	ND	274	548	ug/kg dry	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	27.4	54.8	ug/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	110	110	ug/kg dry	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	13.7	27.4	ug/kg dry	50	---	ND	---	---	---	30%	
Styrene	ND	27.4	54.8	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	13.7	27.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	27.4	54.8	ug/kg dry	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	13.7	27.4	ug/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	27.4	54.8	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	137	274	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	137	274	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	13.7	27.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	13.7	27.4	ug/kg dry	50	---	ND	---	---	---	30%	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310787 - EPA 5035A												
Soil												
Duplicate (2310787-DUP1)												
Prepared: 09/20/23 14:45 Analyzed: 09/25/23 15:57												
QC Source Sample: Non-SDG (A311356-01)												
Trichloroethene (TCE)	ND	13.7	27.4	ug/kg dry	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	54.8	110	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	27.4	54.8	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	27.4	54.8	ug/kg dry	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	27.4	54.8	ug/kg dry	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	13.7	27.4	ug/kg dry	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	27.4	54.8	ug/kg dry	50	---	ND	---	---	---	30%	
o-Xylene	ND	13.7	27.4	ug/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 99 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>79-120 %</i>		<i>"</i>						

Matrix Spike (2310787-MS1)												
Prepared: 09/22/23 15:39 Analyzed: 09/25/23 14:40												
V-15												
QC Source Sample: Non-SDG (A311345-02)												
5035A/8260D												
Acetone	13500	1070	2140	ug/kg dry	50	4280	ND	316	36-164%	---	---	Q-54k
Acrylonitrile	2400	107	214	ug/kg dry	50	2140	ND	112	65-134%	---	---	
Benzene	2310	10.7	21.4	ug/kg dry	50	2140	ND	108	77-121%	---	---	
Bromobenzene	2190	26.7	53.5	ug/kg dry	50	2140	ND	103	78-121%	---	---	
Bromochloromethane	2930	53.5	107	ug/kg dry	50	2140	ND	137	78-125%	---	---	Q-54r
Bromodichloromethane	2450	53.5	107	ug/kg dry	50	2140	ND	115	75-127%	---	---	
Bromoform	2310	107	214	ug/kg dry	50	2140	ND	108	67-132%	---	---	
Bromomethane	4040	1070	1070	ug/kg dry	50	2140	ND	189	53-143%	---	---	Q-54p
2-Butanone (MEK)	9570	535	1070	ug/kg dry	50	4280	ND	224	51-148%	---	---	Q-54a
n-Butylbenzene	2400	53.5	107	ug/kg dry	50	2140	ND	112	70-128%	---	---	
sec-Butylbenzene	2390	53.5	107	ug/kg dry	50	2140	ND	112	73-126%	---	---	
tert-Butylbenzene	2220	53.5	107	ug/kg dry	50	2140	ND	104	73-125%	---	---	
Carbon disulfide	3110	535	1070	ug/kg dry	50	2140	ND	145	63-132%	---	---	Q-54
Carbon tetrachloride	2560	53.5	107	ug/kg dry	50	2140	ND	120	70-135%	---	---	
Chlorobenzene	2260	26.7	53.5	ug/kg dry	50	2140	ND	106	79-120%	---	---	
Chloroethane	4600	535	1070	ug/kg dry	50	2140	ND	215	59-139%	---	---	Q-54l
Chloroform	2370	53.5	107	ug/kg dry	50	2140	ND	111	78-123%	---	---	
Chloromethane	2720	267	535	ug/kg dry	50	2140	ND	127	50-136%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310787 - EPA 5035A						Soil						
Matrix Spike (2310787-MS1)						Prepared: 09/22/23 15:39 Analyzed: 09/25/23 14:40						V-15
QC Source Sample: Non-SDG (A311345-02)												
2-Chlorotoluene	2240	53.5	107	ug/kg dry	50	2140	ND	105	75-122%	---	---	
4-Chlorotoluene	2350	53.5	107	ug/kg dry	50	2140	ND	110	72-124%	---	---	
Dibromochloromethane	2520	107	214	ug/kg dry	50	2140	ND	118	74-126%	---	---	
1,2-Dibromo-3-chloropropane	1790	267	535	ug/kg dry	50	2140	ND	84	61-132%	---	---	
1,2-Dibromoethane (EDB)	2210	53.5	107	ug/kg dry	50	2140	ND	103	78-122%	---	---	
Dibromomethane	2370	53.5	107	ug/kg dry	50	2140	ND	111	78-125%	---	---	
1,2-Dichlorobenzene	2220	26.7	53.5	ug/kg dry	50	2140	ND	104	78-121%	---	---	
1,3-Dichlorobenzene	2240	26.7	53.5	ug/kg dry	50	2140	ND	105	77-121%	---	---	
1,4-Dichlorobenzene	2190	26.7	53.5	ug/kg dry	50	2140	ND	103	75-120%	---	---	
Dichlorodifluoromethane	4240	107	214	ug/kg dry	50	2140	ND	198	29-149%	---	---	Q-54o
1,1-Dichloroethane	2470	26.7	53.5	ug/kg dry	50	2140	ND	116	76-125%	---	---	
1,2-Dichloroethane (EDC)	2600	26.7	53.5	ug/kg dry	50	2140	ND	122	73-128%	---	---	
1,1-Dichloroethene	3290	26.7	53.5	ug/kg dry	50	2140	ND	154	70-131%	---	---	Q-54e
cis-1,2-Dichloroethene	2460	26.7	53.5	ug/kg dry	50	2140	ND	115	77-123%	---	---	
trans-1,2-Dichloroethene	2510	26.7	53.5	ug/kg dry	50	2140	ND	117	74-125%	---	---	
1,2-Dichloropropane	2430	26.7	53.5	ug/kg dry	50	2140	ND	114	76-123%	---	---	
1,3-Dichloropropane	2320	53.5	107	ug/kg dry	50	2140	ND	108	77-121%	---	---	
2,2-Dichloropropane	2410	53.5	107	ug/kg dry	50	2140	ND	113	67-133%	---	---	
1,1-Dichloropropene	2420	53.5	107	ug/kg dry	50	2140	ND	113	76-125%	---	---	
cis-1,3-Dichloropropene	2290	53.5	107	ug/kg dry	50	2140	ND	107	74-126%	---	---	
trans-1,3-Dichloropropene	2500	53.5	107	ug/kg dry	50	2140	ND	117	71-130%	---	---	
Ethylbenzene	2230	26.7	53.5	ug/kg dry	50	2140	ND	104	76-122%	---	---	
Hexachlorobutadiene	2150	107	214	ug/kg dry	50	2140	ND	101	61-135%	---	---	
2-Hexanone	6960	535	1070	ug/kg dry	50	4280	ND	163	53-145%	---	---	Q-01
Isopropylbenzene	2160	53.5	107	ug/kg dry	50	2140	ND	101	68-134%	---	---	
4-Isopropyltoluene	2210	53.5	107	ug/kg dry	50	2140	ND	103	73-127%	---	---	
Methylene chloride	2320	535	1070	ug/kg dry	50	2140	ND	108	70-128%	---	---	
4-Methyl-2-pentanone (MIBK)	5450	535	1070	ug/kg dry	50	4280	ND	127	65-135%	---	---	
Methyl tert-butyl ether (MTBE)	2060	53.5	107	ug/kg dry	50	2140	ND	96	73-125%	---	---	
Naphthalene	1580	214	214	ug/kg dry	50	2140	ND	74	62-129%	---	---	Q-54x
n-Propylbenzene	2400	26.7	53.5	ug/kg dry	50	2140	ND	112	73-125%	---	---	
Styrene	2230	53.5	107	ug/kg dry	50	2140	ND	104	76-124%	---	---	
1,1,1,2-Tetrachloroethane	2420	26.7	53.5	ug/kg dry	50	2140	ND	113	78-125%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310787 - EPA 5035A						Soil						
Matrix Spike (2310787-MS1)						Prepared: 09/22/23 15:39 Analyzed: 09/25/23 14:40						V-15
QC Source Sample: Non-SDG (A311345-02)												
1,1,2,2-Tetrachloroethane	2460	53.5	107	ug/kg dry	50	2140	ND	115	70-124%	---	---	
Tetrachloroethene (PCE)	2040	26.7	53.5	ug/kg dry	50	2140	ND	95	73-128%	---	---	
Toluene	2240	53.5	107	ug/kg dry	50	2140	ND	105	77-121%	---	---	
1,2,3-Trichlorobenzene	1770	267	535	ug/kg dry	50	2140	ND	83	66-130%	---	---	
1,2,4-Trichlorobenzene	1650	267	535	ug/kg dry	50	2140	ND	77	67-129%	---	---	
1,1,1-Trichloroethane	2430	26.7	53.5	ug/kg dry	50	2140	ND	114	73-130%	---	---	
1,1,2-Trichloroethane	2350	26.7	53.5	ug/kg dry	50	2140	ND	110	78-121%	---	---	
Trichloroethene (TCE)	2120	26.7	53.5	ug/kg dry	50	2140	ND	99	77-123%	---	---	
Trichlorofluoromethane	27600	107	214	ug/kg dry	50	2140	ND	1290	62-140%	---	---	Q-54n
1,2,3-Trichloropropane	2630	53.5	107	ug/kg dry	50	2140	ND	123	73-125%	---	---	
1,2,4-Trimethylbenzene	2300	53.5	107	ug/kg dry	50	2140	ND	107	75-123%	---	---	
1,3,5-Trimethylbenzene	2360	53.5	107	ug/kg dry	50	2140	ND	110	73-124%	---	---	
Vinyl chloride	3440	26.7	53.5	ug/kg dry	50	2140	ND	161	56-135%	---	---	Q-54c
m,p-Xylene	4590	53.5	107	ug/kg dry	50	4280	ND	107	77-124%	---	---	
o-Xylene	2000	26.7	53.5	ug/kg dry	50	2140	ND	94	77-123%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 96 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>92 %</i>		<i>79-120 %</i>		<i>"</i>						

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310840 - EPA 5035A						Soil						
Blank (2310840-BLK1)			Prepared: 09/26/23 10:57 Analyzed: 09/26/23 13:50									
<u>5035A/8260D</u>												
Acetone	ND	500	1000	ug/kg wet	50	---	---	---	---	---	---	
Acrylonitrile	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Benzene	ND	5.00	10.0	ug/kg wet	50	---	---	---	---	---	---	
Bromobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Bromochloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromodichloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromoform	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Bromomethane	ND	500	500	ug/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
n-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Carbon disulfide	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Chloroethane	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chloromethane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromochloromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromomethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3I1260 - 10 18 23 1006
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310840 - EPA 5035A						Soil						
Blank (2310840-BLK1)			Prepared: 09/26/23 10:57 Analyzed: 09/26/23 13:50									
1,2-Dichloropropane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Methylene chloride	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	100	100	ug/kg wet	50	---	---	---	---	---	---	Q-54w
n-Propylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Styrene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	250	250	ug/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 96 % Limits: 80-120 % Dilution: 1x

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310840 - EPA 5035A						Soil						
Blank (2310840-BLK1)						Prepared: 09/26/23 10:57 Analyzed: 09/26/23 13:50						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 105 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>94 %</i>		<i>79-120 %</i>		<i>"</i>						
LCS (2310840-BS1)						Prepared: 09/26/23 10:57 Analyzed: 09/26/23 12:54						
5035A/8260D												
Acetone	5160	500	1000	ug/kg wet	50	2000	---	258	80-120%	---	---	Q-56
Acrylonitrile	1070	50.0	100	ug/kg wet	50	1000	---	107	80-120%	---	---	
Benzene	1050	5.00	10.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
Bromobenzene	952	12.5	25.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
Bromochloromethane	1320	25.0	50.0	ug/kg wet	50	1000	---	132	80-120%	---	---	Q-56
Bromodichloromethane	1120	25.0	50.0	ug/kg wet	50	1000	---	112	80-120%	---	---	
Bromoform	997	50.0	100	ug/kg wet	50	1000	---	100	80-120%	---	---	
Bromomethane	1870	500	500	ug/kg wet	50	1000	---	187	80-120%	---	---	Q-56
2-Butanone (MEK)	3610	250	500	ug/kg wet	50	2000	---	180	80-120%	---	---	Q-56
n-Butylbenzene	1030	25.0	50.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
sec-Butylbenzene	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
tert-Butylbenzene	954	25.0	50.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
Carbon disulfide	1430	250	500	ug/kg wet	50	1000	---	143	80-120%	---	---	Q-56
Carbon tetrachloride	1130	25.0	50.0	ug/kg wet	50	1000	---	113	80-120%	---	---	
Chlorobenzene	1040	12.5	25.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Chloroethane	1850	250	500	ug/kg wet	50	1000	---	185	80-120%	---	---	Q-56
Chloroform	1090	25.0	50.0	ug/kg wet	50	1000	---	109	80-120%	---	---	
Chloromethane	1180	125	250	ug/kg wet	50	1000	---	118	80-120%	---	---	
2-Chlorotoluene	979	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
4-Chlorotoluene	1050	25.0	50.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
Dibromochloromethane	1170	50.0	100	ug/kg wet	50	1000	---	117	80-120%	---	---	
1,2-Dibromo-3-chloropropane	878	125	250	ug/kg wet	50	1000	---	88	80-120%	---	---	
1,2-Dibromoethane (EDB)	1070	25.0	50.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
Dibromomethane	1090	25.0	50.0	ug/kg wet	50	1000	---	109	80-120%	---	---	
1,2-Dichlorobenzene	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
1,3-Dichlorobenzene	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
1,4-Dichlorobenzene	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
Dichlorodifluoromethane	1660	50.0	100	ug/kg wet	50	1000	---	166	80-120%	---	---	Q-56, ICV-01
1,1-Dichloroethane	1140	12.5	25.0	ug/kg wet	50	1000	---	114	80-120%	---	---	

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310840 - EPA 5035A												
Soil												
LCS (2310840-BS1)												
Prepared: 09/26/23 10:57 Analyzed: 09/26/23 12:54												
1,2-Dichloroethane (EDC)	1220	12.5	25.0	ug/kg wet	50	1000	---	122	80-120%	---	---	Q-56
1,1-Dichloroethene	1520	12.5	25.0	ug/kg wet	50	1000	---	152	80-120%	---	---	Q-56
cis-1,2-Dichloroethene	1090	12.5	25.0	ug/kg wet	50	1000	---	109	80-120%	---	---	
trans-1,2-Dichloroethene	1120	12.5	25.0	ug/kg wet	50	1000	---	112	80-120%	---	---	
1,2-Dichloropropane	1110	12.5	25.0	ug/kg wet	50	1000	---	111	80-120%	---	---	
1,3-Dichloropropane	1120	25.0	50.0	ug/kg wet	50	1000	---	112	80-120%	---	---	
2,2-Dichloropropane	1100	25.0	50.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
1,1-Dichloropropene	1030	25.0	50.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
cis-1,3-Dichloropropene	1150	25.0	50.0	ug/kg wet	50	1000	---	115	80-120%	---	---	
trans-1,3-Dichloropropene	1220	25.0	50.0	ug/kg wet	50	1000	---	122	80-120%	---	---	Q-56
Ethylbenzene	1040	12.5	25.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Hexachlorobutadiene	938	50.0	100	ug/kg wet	50	1000	---	94	80-120%	---	---	
2-Hexanone	2540	250	500	ug/kg wet	50	2000	---	127	80-120%	---	---	Q-56
Isopropylbenzene	942	25.0	50.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
4-Isopropyltoluene	950	25.0	50.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
Methylene chloride	1130	250	500	ug/kg wet	50	1000	---	113	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	2240	250	500	ug/kg wet	50	2000	---	112	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	940	25.0	50.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
Naphthalene	700	100	100	ug/kg wet	50	1000	---	70	80-120%	---	---	Q-54w
n-Propylbenzene	1070	12.5	25.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
Styrene	983	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
1,1,1,2-Tetrachloroethane	1140	12.5	25.0	ug/kg wet	50	1000	---	114	80-120%	---	---	
1,1,2,2-Tetrachloroethane	1170	25.0	50.0	ug/kg wet	50	1000	---	117	80-120%	---	---	
Tetrachloroethene (PCE)	982	12.5	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Toluene	1100	25.0	50.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
1,2,3-Trichlorobenzene	814	125	250	ug/kg wet	50	1000	---	81	80-120%	---	---	
1,2,4-Trichlorobenzene	725	250	250	ug/kg wet	50	1000	---	72	80-120%	---	---	Q-55
1,1,1-Trichloroethane	1090	12.5	25.0	ug/kg wet	50	1000	---	109	80-120%	---	---	
1,1,2-Trichloroethane	1140	12.5	25.0	ug/kg wet	50	1000	---	114	80-120%	---	---	
Trichloroethene (TCE)	917	12.5	25.0	ug/kg wet	50	1000	---	92	80-120%	---	---	
Trichlorofluoromethane	1730	50.0	100	ug/kg wet	50	1000	---	173	80-120%	---	---	Q-56
1,2,3-Trichloropropane	1200	25.0	50.0	ug/kg wet	50	1000	---	120	80-120%	---	---	
1,2,4-Trimethylbenzene	1020	25.0	50.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
1,3,5-Trimethylbenzene	1070	25.0	50.0	ug/kg wet	50	1000	---	107	80-120%	---	---	

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ANALYTICAL REPORT

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6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310840 - EPA 5035A						Soil						
LCS (2310840-BS1)						Prepared: 09/26/23 10:57 Analyzed: 09/26/23 12:54						
Vinyl chloride	1420	12.5	25.0	ug/kg wet	50	1000	---	142	80-120%	---	---	Q-56
m,p-Xylene	2150	25.0	50.0	ug/kg wet	50	2000	---	107	80-120%	---	---	
o-Xylene	878	12.5	25.0	ug/kg wet	50	1000	---	88	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 95 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>108 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>86 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (2310840-DUP1)						Prepared: 09/21/23 16:35 Analyzed: 09/26/23 20:42						
QC Source Sample: Non-SDG (A311359-08)												
Acetone	ND	23400	46800	ug/kg dry	500	---	ND	---	---	---	30%	
Acrylonitrile	ND	2340	4680	ug/kg dry	500	---	ND	---	---	---	30%	
Benzene	ND	234	468	ug/kg dry	500	---	ND	---	---	---	30%	
Bromobenzene	ND	585	1170	ug/kg dry	500	---	ND	---	---	---	30%	
Bromochloromethane	ND	1170	2340	ug/kg dry	500	---	ND	---	---	---	30%	
Bromodichloromethane	ND	1170	2340	ug/kg dry	500	---	ND	---	---	---	30%	
Bromoform	ND	2340	4680	ug/kg dry	500	---	ND	---	---	---	30%	
Bromomethane	ND	23400	23400	ug/kg dry	500	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	11700	23400	ug/kg dry	500	---	ND	---	---	---	30%	
n-Butylbenzene	ND	1170	2340	ug/kg dry	500	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	1170	2340	ug/kg dry	500	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	1170	2340	ug/kg dry	500	---	ND	---	---	---	30%	
Carbon disulfide	ND	11700	23400	ug/kg dry	500	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	1170	2340	ug/kg dry	500	---	ND	---	---	---	30%	
Chlorobenzene	ND	585	1170	ug/kg dry	500	---	ND	---	---	---	30%	
Chloroethane	ND	11700	23400	ug/kg dry	500	---	ND	---	---	---	30%	
Chloroform	ND	1170	2340	ug/kg dry	500	---	ND	---	---	---	30%	
Chloromethane	ND	5850	11700	ug/kg dry	500	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	1170	2340	ug/kg dry	500	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	1170	2340	ug/kg dry	500	---	ND	---	---	---	30%	
Dibromochloromethane	ND	2340	4680	ug/kg dry	500	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	5850	11700	ug/kg dry	500	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	1170	2340	ug/kg dry	500	---	ND	---	---	---	30%	
Dibromomethane	ND	1170	2340	ug/kg dry	500	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	585	1170	ug/kg dry	500	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

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6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310840 - EPA 5035A							Soil					
Duplicate (2310840-DUP1)			Prepared: 09/21/23 16:35 Analyzed: 09/26/23 20:42									
QC Source Sample: Non-SDG (A311359-08)												
1,3-Dichlorobenzene	ND	585	1170	ug/kg dry	500	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	585	1170	ug/kg dry	500	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	2340	4680	ug/kg dry	500	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	585	1170	ug/kg dry	500	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	585	1170	ug/kg dry	500	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	585	1170	ug/kg dry	500	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	585	1170	ug/kg dry	500	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	585	1170	ug/kg dry	500	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	585	1170	ug/kg dry	500	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	1170	2340	ug/kg dry	500	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	1170	2340	ug/kg dry	500	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	1170	2340	ug/kg dry	500	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	1170	2340	ug/kg dry	500	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	1170	2340	ug/kg dry	500	---	ND	---	---	---	30%	
Ethylbenzene	ND	585	1170	ug/kg dry	500	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	2340	4680	ug/kg dry	500	---	ND	---	---	---	30%	
2-Hexanone	ND	11700	23400	ug/kg dry	500	---	ND	---	---	---	30%	
Isopropylbenzene	ND	1170	2340	ug/kg dry	500	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	1170	2340	ug/kg dry	500	---	ND	---	---	---	30%	
Methylene chloride	ND	11700	23400	ug/kg dry	500	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	11700	23400	ug/kg dry	500	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	1170	2340	ug/kg dry	500	---	ND	---	---	---	30%	
Naphthalene	ND	4680	4680	ug/kg dry	500	---	ND	---	---	---	30%	Q-54w
n-Propylbenzene	ND	585	1170	ug/kg dry	500	---	ND	---	---	---	30%	
Styrene	ND	1170	2340	ug/kg dry	500	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	585	1170	ug/kg dry	500	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	1170	2340	ug/kg dry	500	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	585	1170	ug/kg dry	500	---	ND	---	---	---	30%	
Toluene	ND	1170	2340	ug/kg dry	500	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	5850	11700	ug/kg dry	500	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	11700	11700	ug/kg dry	500	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	585	1170	ug/kg dry	500	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	585	1170	ug/kg dry	500	---	ND	---	---	---	30%	

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310840 - EPA 5035A												
Soil												
Duplicate (2310840-DUP1)												
Prepared: 09/21/23 16:35 Analyzed: 09/26/23 20:42												
QC Source Sample: Non-SDG (A311359-08)												
Trichloroethene (TCE)	ND	585	1170	ug/kg dry	500	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	2340	4680	ug/kg dry	500	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	1170	2340	ug/kg dry	500	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	2200	1170	2340	ug/kg dry	500	---	2220	---	---	1	30%	J
1,3,5-Trimethylbenzene	ND	1170	2340	ug/kg dry	500	---	ND	---	---	---	30%	
Vinyl chloride	ND	585	1170	ug/kg dry	500	---	ND	---	---	---	30%	
m,p-Xylene	ND	2340	2340	ug/kg dry	500	---	ND	---	---	---	30%	
o-Xylene	ND	1170	1170	ug/kg dry	500	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 99 % Limits: 80-120 % Dilution: 1x												
Toluene-d8 (Surr) 102 % 80-120 % "												
4-Bromofluorobenzene (Surr) 97 % 79-120 % "												

Matrix Spike (2310840-MS1)												
Prepared: 09/22/23 00:00 Analyzed: 09/26/23 17:16												
QC Source Sample: Non-SDG (A311354-02)												
5035A/8260D												
Acetone	23200	2010	4030	ug/kg dry	200	8050	ND	288	36-164%	---	---	Q-54b
Acrylonitrile	4280	201	403	ug/kg dry	200	4030	ND	106	65-134%	---	---	
Benzene	4440	20.1	40.3	ug/kg dry	200	4030	44.3	109	77-121%	---	---	
Bromobenzene	4060	50.4	101	ug/kg dry	200	4030	ND	101	78-121%	---	---	
Bromochloromethane	4770	101	201	ug/kg dry	200	4030	ND	118	78-125%	---	---	Q-54a
Bromodichloromethane	4320	101	201	ug/kg dry	200	4030	ND	107	75-127%	---	---	
Bromoform	3730	201	403	ug/kg dry	200	4030	ND	93	67-132%	---	---	
Bromomethane	6160	2010	2010	ug/kg dry	200	4030	ND	153	53-143%	---	---	Q-54u
2-Butanone (MEK)	16000	1010	2010	ug/kg dry	200	8050	ND	199	51-148%	---	---	Q-54s
n-Butylbenzene	14300	101	201	ug/kg dry	200	4030	8950	133	70-128%	---	---	Q-03
sec-Butylbenzene	8370	101	201	ug/kg dry	200	4030	3930	110	73-126%	---	---	
tert-Butylbenzene	4310	101	201	ug/kg dry	200	4030	ND	107	73-125%	---	---	
Carbon disulfide	5070	1010	2010	ug/kg dry	200	4030	ND	126	63-132%	---	---	Q-54g
Carbon tetrachloride	4600	101	201	ug/kg dry	200	4030	ND	114	70-135%	---	---	
Chlorobenzene	4220	50.4	101	ug/kg dry	200	4030	ND	105	79-120%	---	---	
Chloroethane	5630	1010	2010	ug/kg dry	200	4030	ND	140	59-139%	---	---	Q-54t
Chloroform	4240	101	201	ug/kg dry	200	4030	ND	105	78-123%	---	---	
Chloromethane	4240	504	1010	ug/kg dry	200	4030	ND	105	50-136%	---	---	

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310840 - EPA 5035A						Soil						
Matrix Spike (2310840-MS1)			Prepared: 09/22/23 00:00 Analyzed: 09/26/23 17:16									
QC Source Sample: Non-SDG (A311354-02)												
2-Chlorotoluene	4560	101	201	ug/kg dry	200	4030	ND	113	75-122%	---	---	
4-Chlorotoluene	4270	101	201	ug/kg dry	200	4030	ND	106	72-124%	---	---	
Dibromochloromethane	4550	201	403	ug/kg dry	200	4030	ND	113	74-126%	---	---	
1,2-Dibromo-3-chloropropane	3990	504	1010	ug/kg dry	200	4030	ND	99	61-132%	---	---	
1,2-Dibromoethane (EDB)	4390	101	201	ug/kg dry	200	4030	ND	109	78-122%	---	---	
Dibromomethane	4240	101	201	ug/kg dry	200	4030	ND	105	78-125%	---	---	
1,2-Dichlorobenzene	4280	50.4	101	ug/kg dry	200	4030	ND	106	78-121%	---	---	
1,3-Dichlorobenzene	4180	50.4	101	ug/kg dry	200	4030	ND	104	77-121%	---	---	
1,4-Dichlorobenzene	3990	50.4	101	ug/kg dry	200	4030	ND	99	75-120%	---	---	
Dichlorodifluoromethane	6390	201	403	ug/kg dry	200	4030	ND	159	29-149%	---	---	ICV-01, Q-54y
1,1-Dichloroethane	4470	50.4	101	ug/kg dry	200	4030	ND	111	76-125%	---	---	
1,2-Dichloroethane (EDC)	4430	50.4	101	ug/kg dry	200	4030	ND	110	73-128%	---	---	Q-54d
1,1-Dichloroethene	5390	50.4	101	ug/kg dry	200	4030	ND	134	70-131%	---	---	Q-54i
cis-1,2-Dichloroethene	4570	50.4	101	ug/kg dry	200	4030	ND	114	77-123%	---	---	
trans-1,2-Dichloroethene	4680	50.4	101	ug/kg dry	200	4030	ND	116	74-125%	---	---	
1,2-Dichloropropane	4460	50.4	101	ug/kg dry	200	4030	ND	111	76-123%	---	---	
1,3-Dichloropropane	4430	101	201	ug/kg dry	200	4030	ND	110	77-121%	---	---	
2,2-Dichloropropane	4380	101	201	ug/kg dry	200	4030	ND	109	67-133%	---	---	
1,1-Dichloropropene	4610	101	201	ug/kg dry	200	4030	ND	114	76-125%	---	---	
cis-1,3-Dichloropropene	4430	101	201	ug/kg dry	200	4030	ND	110	74-126%	---	---	
trans-1,3-Dichloropropene	4510	101	201	ug/kg dry	200	4030	ND	112	71-130%	---	---	Q-54d
Ethylbenzene	9340	50.4	101	ug/kg dry	200	4030	5170	103	76-122%	---	---	
Hexachlorobutadiene	4770	201	403	ug/kg dry	200	4030	ND	118	61-135%	---	---	
2-Hexanone	12700	1010	2010	ug/kg dry	200	8050	ND	157	53-145%	---	---	Q-54v
Isopropylbenzene	6630	101	201	ug/kg dry	200	4030	2170	111	68-134%	---	---	
4-Isopropyltoluene	7230	101	201	ug/kg dry	200	4030	2430	119	73-127%	---	---	
Methylene chloride	4500	1010	2010	ug/kg dry	200	4030	ND	112	70-128%	---	---	
4-Methyl-2-pentanone (MiBK)	10700	1010	2010	ug/kg dry	200	8050	ND	114	65-135%	---	---	
Methyl tert-butyl ether (MTBE)	4100	101	201	ug/kg dry	200	4030	ND	102	73-125%	---	---	
Naphthalene	8690	403	403	ug/kg dry	200	4030	4080	115	62-129%	---	---	Q-54w
n-Propylbenzene	13200	50.4	101	ug/kg dry	200	4030	9150	101	73-125%	---	---	
Styrene	4340	101	201	ug/kg dry	200	4030	ND	108	76-124%	---	---	
1,1,1,2-Tetrachloroethane	4300	50.4	101	ug/kg dry	200	4030	ND	107	78-125%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310840 - EPA 5035A						Soil						
Matrix Spike (2310840-MS1)						Prepared: 09/22/23 00:00 Analyzed: 09/26/23 17:16						
QC Source Sample: Non-SDG (A311354-02)												
1,1,2,2-Tetrachloroethane	4730	101	201	ug/kg dry	200	4030	ND	94	70-124%	---	---	
Tetrachloroethene (PCE)	4190	50.4	101	ug/kg dry	200	4030	ND	104	73-128%	---	---	
Toluene	5550	101	201	ug/kg dry	200	4030	1250	107	77-121%	---	---	
1,2,3-Trichlorobenzene	4060	504	1010	ug/kg dry	200	4030	ND	101	66-130%	---	---	
1,2,4-Trichlorobenzene	4110	1010	1010	ug/kg dry	200	4030	ND	102	67-129%	---	---	Q-54z
1,1,1-Trichloroethane	4430	50.4	101	ug/kg dry	200	4030	ND	110	73-130%	---	---	
1,1,2-Trichloroethane	6010	50.4	101	ug/kg dry	200	4030	ND	107	78-121%	---	---	
Trichloroethene (TCE)	4410	50.4	101	ug/kg dry	200	4030	ND	109	77-123%	---	---	
Trichlorofluoromethane	5380	201	403	ug/kg dry	200	4030	ND	134	62-140%	---	---	Q-54q
1,2,3-Trichloropropane	5230	101	201	ug/kg dry	200	4030	ND	115	73-125%	---	---	
1,2,4-Trimethylbenzene	46500	101	201	ug/kg dry	200	4030	44400	52	75-123%	---	---	E, Q-03
1,3,5-Trimethylbenzene	15700	101	201	ug/kg dry	200	4030	11600	103	73-124%	---	---	
Vinyl chloride	5730	50.4	101	ug/kg dry	200	4030	ND	142	56-135%	---	---	Q-54f
m,p-Xylene	30400	101	201	ug/kg dry	200	8050	22000	104	77-124%	---	---	
o-Xylene	14100	50.4	101	ug/kg dry	200	4030	10100	99	77-123%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>94 %</i>		<i>79-120 %</i>		<i>"</i>						

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310960 - EPA 5035A						Soil						
Blank (2310960-BLK1)			Prepared: 09/28/23 10:42 Analyzed: 09/28/23 17:33									
<u>5035A/8260D</u>												
Acetone	ND	500	1000	ug/kg wet	50	---	---	---	---	---	---	
Acrylonitrile	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Benzene	ND	5.00	10.0	ug/kg wet	50	---	---	---	---	---	---	
Bromobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Bromochloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromodichloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromoform	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Bromomethane	ND	500	500	ug/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
n-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Carbon disulfide	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Chloroethane	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chloromethane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromochloromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromomethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3I1260 - 10 18 23 1006
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310960 - EPA 5035A						Soil						
Blank (2310960-BLK1)			Prepared: 09/28/23 10:42 Analyzed: 09/28/23 17:33									
1,2-Dichloropropane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Methylene chloride	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
4-Methyl-2-pentanone (MIBK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Styrene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 102 % Limits: 80-120 % Dilution: 1x

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ANALYTICAL REPORT

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6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310960 - EPA 5035A						Soil						
Blank (2310960-BLK1)						Prepared: 09/28/23 10:42 Analyzed: 09/28/23 17:33						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 105 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>103 %</i>		<i>79-120 %</i>		<i>"</i>						
LCS (2310960-BS1)						Prepared: 09/28/23 10:42 Analyzed: 09/28/23 15:26						
5035A/8260D												
Acetone	2650	500	1000	ug/kg wet	50	2000	---	132	80-120%	---	---	Q-56
Acrylonitrile	1190	50.0	100	ug/kg wet	50	1000	---	119	80-120%	---	---	
Benzene	1110	5.00	10.0	ug/kg wet	50	1000	---	111	80-120%	---	---	
Bromobenzene	1040	12.5	25.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Bromochloromethane	1140	25.0	50.0	ug/kg wet	50	1000	---	114	80-120%	---	---	
Bromodichloromethane	1000	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Bromoform	988	50.0	100	ug/kg wet	50	1000	---	99	80-120%	---	---	
Bromomethane	1000	500	500	ug/kg wet	50	1000	---	100	80-120%	---	---	
2-Butanone (MEK)	2490	250	500	ug/kg wet	50	2000	---	124	80-120%	---	---	Q-56
n-Butylbenzene	1060	25.0	50.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
sec-Butylbenzene	1160	25.0	50.0	ug/kg wet	50	1000	---	116	80-120%	---	---	
tert-Butylbenzene	1060	25.0	50.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
Carbon disulfide	1090	250	500	ug/kg wet	50	1000	---	109	80-120%	---	---	
Carbon tetrachloride	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Chlorobenzene	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Chloroethane	904	250	500	ug/kg wet	50	1000	---	90	80-120%	---	---	
Chloroform	1020	25.0	50.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
Chloromethane	1080	125	250	ug/kg wet	50	1000	---	108	80-120%	---	---	
2-Chlorotoluene	1090	25.0	50.0	ug/kg wet	50	1000	---	109	80-120%	---	---	
4-Chlorotoluene	1110	25.0	50.0	ug/kg wet	50	1000	---	111	80-120%	---	---	
Dibromochloromethane	945	50.0	100	ug/kg wet	50	1000	---	94	80-120%	---	---	
1,2-Dibromo-3-chloropropane	982	125	250	ug/kg wet	50	1000	---	98	80-120%	---	---	
1,2-Dibromoethane (EDB)	978	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Dibromomethane	1080	25.0	50.0	ug/kg wet	50	1000	---	108	80-120%	---	---	
1,2-Dichlorobenzene	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
1,3-Dichlorobenzene	1040	12.5	25.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,4-Dichlorobenzene	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
Dichlorodifluoromethane	998	50.0	100	ug/kg wet	50	1000	---	100	80-120%	---	---	
1,1-Dichloroethane	1060	12.5	25.0	ug/kg wet	50	1000	---	106	80-120%	---	---	

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
						Soil						
Batch 2310960 - EPA 5035A												
LCS (2310960-BS1)						Prepared: 09/28/23 10:42 Analyzed: 09/28/23 15:26						
1,2-Dichloroethane (EDC)	980	12.5	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
1,1-Dichloroethene	1060	12.5	25.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
cis-1,2-Dichloroethene	1100	25.0	50.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
trans-1,2-Dichloroethene	1120	25.0	50.0	ug/kg wet	50	1000	---	112	80-120%	---	---	
1,2-Dichloropropane	1130	12.5	25.0	ug/kg wet	50	1000	---	113	80-120%	---	---	
1,3-Dichloropropane	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
2,2-Dichloropropane	1140	25.0	50.0	ug/kg wet	50	1000	---	114	80-120%	---	---	
1,1-Dichloropropene	1140	25.0	50.0	ug/kg wet	50	1000	---	114	80-120%	---	---	
cis-1,3-Dichloropropene	1060	25.0	50.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
trans-1,3-Dichloropropene	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Ethylbenzene	1040	12.5	25.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Hexachlorobutadiene	1010	50.0	100	ug/kg wet	50	1000	---	101	80-120%	---	---	
2-Hexanone	2140	250	500	ug/kg wet	50	2000	---	107	80-120%	---	---	
Isopropylbenzene	1090	25.0	50.0	ug/kg wet	50	1000	---	109	80-120%	---	---	
4-Isopropyltoluene	1160	25.0	50.0	ug/kg wet	50	1000	---	116	80-120%	---	---	
Methylene chloride	1120	250	500	ug/kg wet	50	1000	---	112	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	2080	250	500	ug/kg wet	50	2000	---	104	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	1070	25.0	50.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
Naphthalene	1090	50.0	100	ug/kg wet	50	1000	---	109	80-120%	---	---	
n-Propylbenzene	1090	12.5	25.0	ug/kg wet	50	1000	---	109	80-120%	---	---	
Styrene	1080	25.0	50.0	ug/kg wet	50	1000	---	108	80-120%	---	---	
1,1,1,2-Tetrachloroethane	958	12.5	25.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
1,1,2,2-Tetrachloroethane	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Tetrachloroethene (PCE)	1110	12.5	25.0	ug/kg wet	50	1000	---	111	80-120%	---	---	
Toluene	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
1,2,3-Trichlorobenzene	1030	125	250	ug/kg wet	50	1000	---	103	80-120%	---	---	
1,2,4-Trichlorobenzene	1080	125	250	ug/kg wet	50	1000	---	108	80-120%	---	---	
1,1,1-Trichloroethane	1030	12.5	25.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
1,1,2-Trichloroethane	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
Trichloroethene (TCE)	1150	12.5	25.0	ug/kg wet	50	1000	---	115	80-120%	---	---	
Trichlorofluoromethane	844	50.0	100	ug/kg wet	50	1000	---	84	80-120%	---	---	
1,2,3-Trichloropropane	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
1,2,4-Trimethylbenzene	1170	25.0	50.0	ug/kg wet	50	1000	---	117	80-120%	---	---	
1,3,5-Trimethylbenzene	1140	25.0	50.0	ug/kg wet	50	1000	---	114	80-120%	---	---	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310960 - EPA 5035A						Soil						
LCS (2310960-BS1)						Prepared: 09/28/23 10:42 Analyzed: 09/28/23 15:26						
Vinyl chloride	1530	12.5	25.0	ug/kg wet	50	1000	---	153	80-120%	---	---	Q-56
m,p-Xylene	2220	25.0	50.0	ug/kg wet	50	2000	---	111	80-120%	---	---	
o-Xylene	1060	12.5	25.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 108 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (2310960-DUP1) Prepared: 09/21/23 00:00 Analyzed: 09/28/23 21:22

QC Source Sample: Non-SDG (A311420-04)

Acetone	ND	1270	2530	ug/kg dry	100	---	ND	---	---	---	30%
Acrylonitrile	ND	253	253	ug/kg dry	100	---	ND	---	---	---	30%
Benzene	ND	12.7	25.3	ug/kg dry	100	---	ND	---	---	---	30%
Bromobenzene	ND	31.6	63.3	ug/kg dry	100	---	ND	---	---	---	30%
Bromochloromethane	ND	63.3	127	ug/kg dry	100	---	ND	---	---	---	30%
Bromodichloromethane	ND	63.3	127	ug/kg dry	100	---	ND	---	---	---	30%
Bromoform	ND	127	253	ug/kg dry	100	---	ND	---	---	---	30%
Bromomethane	ND	1270	1270	ug/kg dry	100	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	633	1270	ug/kg dry	100	---	ND	---	---	---	30%
n-Butylbenzene	620	63.3	127	ug/kg dry	100	---	669	---	---	8	30%
sec-Butylbenzene	292	63.3	127	ug/kg dry	100	---	299	---	---	2	30%
tert-Butylbenzene	ND	63.3	127	ug/kg dry	100	---	ND	---	---	---	30%
Carbon disulfide	ND	633	1270	ug/kg dry	100	---	ND	---	---	---	30%
Carbon tetrachloride	ND	63.3	127	ug/kg dry	100	---	ND	---	---	---	30%
Chlorobenzene	ND	31.6	63.3	ug/kg dry	100	---	ND	---	---	---	30%
Chloroethane	ND	633	1270	ug/kg dry	100	---	ND	---	---	---	30%
Chloroform	ND	63.3	127	ug/kg dry	100	---	ND	---	---	---	30%
Chloromethane	ND	316	633	ug/kg dry	100	---	ND	---	---	---	30%
2-Chlorotoluene	ND	63.3	127	ug/kg dry	100	---	ND	---	---	---	30%
4-Chlorotoluene	ND	63.3	127	ug/kg dry	100	---	ND	---	---	---	30%
Dibromochloromethane	ND	127	253	ug/kg dry	100	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	316	633	ug/kg dry	100	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	63.3	127	ug/kg dry	100	---	ND	---	---	---	30%
Dibromomethane	ND	63.3	127	ug/kg dry	100	---	ND	---	---	---	30%
1,2-Dichlorobenzene	ND	31.6	63.3	ug/kg dry	100	---	ND	---	---	---	30%

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ANALYTICAL REPORT

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310960 - EPA 5035A							Soil					
Duplicate (2310960-DUP1)			Prepared: 09/21/23 00:00 Analyzed: 09/28/23 21:22									
QC Source Sample: Non-SDG (A311420-04)												
1,3-Dichlorobenzene	ND	31.6	63.3	ug/kg dry	100	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	31.6	63.3	ug/kg dry	100	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	127	253	ug/kg dry	100	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	31.6	63.3	ug/kg dry	100	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	31.6	63.3	ug/kg dry	100	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	31.6	63.3	ug/kg dry	100	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	63.3	127	ug/kg dry	100	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	63.3	127	ug/kg dry	100	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	31.6	63.3	ug/kg dry	100	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	63.3	127	ug/kg dry	100	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	63.3	127	ug/kg dry	100	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	63.3	127	ug/kg dry	100	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	63.3	127	ug/kg dry	100	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	63.3	127	ug/kg dry	100	---	ND	---	---	---	30%	
Ethylbenzene	ND	31.6	63.3	ug/kg dry	100	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	127	253	ug/kg dry	100	---	ND	---	---	---	30%	
2-Hexanone	ND	633	1270	ug/kg dry	100	---	ND	---	---	---	30%	
Isopropylbenzene	380	63.3	127	ug/kg dry	100	---	381	---	---	0.3	30%	
4-Isopropyltoluene	ND	63.3	127	ug/kg dry	100	---	ND	---	---	---	30%	
Methylene chloride	ND	633	1270	ug/kg dry	100	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MIBK)	ND	633	1270	ug/kg dry	100	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	63.3	127	ug/kg dry	100	---	ND	---	---	---	30%	
Naphthalene	ND	127	253	ug/kg dry	100	---	ND	---	---	---	30%	
n-Propylbenzene	1650	31.6	63.3	ug/kg dry	100	---	1770	---	---	7	30%	
Styrene	ND	63.3	127	ug/kg dry	100	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	31.6	63.3	ug/kg dry	100	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	63.3	127	ug/kg dry	100	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	31.6	63.3	ug/kg dry	100	---	ND	---	---	---	30%	
Toluene	ND	63.3	127	ug/kg dry	100	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	316	633	ug/kg dry	100	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	316	633	ug/kg dry	100	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	31.6	63.3	ug/kg dry	100	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	31.6	63.3	ug/kg dry	100	---	ND	---	---	---	30%	

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310960 - EPA 5035A												
Soil												
Duplicate (2310960-DUP1)												
						Prepared: 09/21/23 00:00 Analyzed: 09/28/23 21:22						
QC Source Sample: Non-SDG (A311420-04)												
Trichloroethene (TCE)	ND	31.6	63.3	ug/kg dry	100	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	127	253	ug/kg dry	100	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	63.3	127	ug/kg dry	100	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	63.3	127	ug/kg dry	100	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	63.3	127	ug/kg dry	100	---	ND	---	---	---	30%	
Vinyl chloride	ND	31.6	63.3	ug/kg dry	100	---	ND	---	---	---	30%	
m,p-Xylene	ND	63.3	127	ug/kg dry	100	---	ND	---	---	---	30%	
o-Xylene	ND	31.6	63.3	ug/kg dry	100	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 128 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						S-06
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>105 %</i>		<i>79-120 %</i>		<i>"</i>						

Matrix Spike (2310960-MS1)												
						Prepared: 09/27/23 14:00 Analyzed: 09/28/23 23:04						
QC Source Sample: Non-SDG (A311521-02)												
5035A/8260D												
Acetone	4880	1180	2350	ug/kg dry	50	4700	ND	104	36-164%	---	---	Q-54a
Acrylonitrile	3010	118	235	ug/kg dry	50	2350	ND	128	65-134%	---	---	
Benzene	2980	11.8	23.5	ug/kg dry	50	2350	ND	127	77-121%	---	---	Q-01
Bromobenzene	2430	29.4	58.8	ug/kg dry	50	2350	ND	103	78-121%	---	---	
Bromochloromethane	2730	58.8	118	ug/kg dry	50	2350	ND	116	78-125%	---	---	
Bromodichloromethane	2210	58.8	118	ug/kg dry	50	2350	ND	94	75-127%	---	---	
Bromoform	1980	118	235	ug/kg dry	50	2350	ND	84	67-132%	---	---	
Bromomethane	2490	1180	1180	ug/kg dry	50	2350	ND	106	53-143%	---	---	
2-Butanone (MEK)	5660	588	1180	ug/kg dry	50	4700	ND	120	51-148%	---	---	Q-54m
n-Butylbenzene	2980	58.8	118	ug/kg dry	50	2350	ND	127	70-128%	---	---	
sec-Butylbenzene	3090	58.8	118	ug/kg dry	50	2350	94.1	127	73-126%	---	---	Q-01
tert-Butylbenzene	2470	58.8	118	ug/kg dry	50	2350	ND	105	73-125%	---	---	
Carbon disulfide	3900	588	1180	ug/kg dry	50	2350	ND	166	63-132%	---	---	Q-01
Carbon tetrachloride	2380	58.8	118	ug/kg dry	50	2350	ND	101	70-135%	---	---	
Chlorobenzene	2310	29.4	58.8	ug/kg dry	50	2350	ND	98	79-120%	---	---	
Chloroethane	1420	588	1180	ug/kg dry	50	2350	ND	60	59-139%	---	---	
Chloroform	2330	58.8	118	ug/kg dry	50	2350	ND	99	78-123%	---	---	
Chloromethane	2640	294	588	ug/kg dry	50	2350	ND	112	50-136%	---	---	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310960 - EPA 5035A							Soil					
Matrix Spike (2310960-MS1)			Prepared: 09/27/23 14:00 Analyzed: 09/28/23 23:04									
QC Source Sample: Non-SDG (A311521-02)												
2-Chlorotoluene	2650	58.8	118	ug/kg dry	50	2350	ND	112	75-122%	---	---	
4-Chlorotoluene	2370	58.8	118	ug/kg dry	50	2350	ND	101	72-124%	---	---	
Dibromochloromethane	1890	118	235	ug/kg dry	50	2350	ND	80	74-126%	---	---	
1,2-Dibromo-3-chloropropane	2370	294	588	ug/kg dry	50	2350	ND	101	61-132%	---	---	
1,2-Dibromoethane (EDB)	2120	58.8	118	ug/kg dry	50	2350	ND	90	78-122%	---	---	
Dibromomethane	2580	58.8	118	ug/kg dry	50	2350	ND	110	78-125%	---	---	
1,2-Dichlorobenzene	2290	29.4	58.8	ug/kg dry	50	2350	ND	97	78-121%	---	---	
1,3-Dichlorobenzene	2350	29.4	58.8	ug/kg dry	50	2350	ND	100	77-121%	---	---	
1,4-Dichlorobenzene	2280	29.4	58.8	ug/kg dry	50	2350	ND	97	75-120%	---	---	
Dichlorodifluoromethane	2330	118	235	ug/kg dry	50	2350	ND	99	29-149%	---	---	
1,1-Dichloroethane	2630	29.4	58.8	ug/kg dry	50	2350	ND	112	76-125%	---	---	
1,2-Dichloroethane (EDC)	1860	29.4	58.8	ug/kg dry	50	2350	ND	79	73-128%	---	---	
1,1-Dichloroethene	3380	29.4	58.8	ug/kg dry	50	2350	ND	144	70-131%	---	---	Q-01
cis-1,2-Dichloroethene	2560	58.8	118	ug/kg dry	50	2350	ND	109	77-123%	---	---	
trans-1,2-Dichloroethene	2680	58.8	118	ug/kg dry	50	2350	ND	114	74-125%	---	---	
1,2-Dichloropropane	3000	29.4	58.8	ug/kg dry	50	2350	ND	128	76-123%	---	---	Q-01
1,3-Dichloropropane	2150	58.8	118	ug/kg dry	50	2350	ND	91	77-121%	---	---	
2,2-Dichloropropane	2240	58.8	118	ug/kg dry	50	2350	ND	95	67-133%	---	---	
1,1-Dichloropropene	2870	58.8	118	ug/kg dry	50	2350	ND	122	76-125%	---	---	
cis-1,3-Dichloropropene	2130	58.8	118	ug/kg dry	50	2350	ND	91	74-126%	---	---	
trans-1,3-Dichloropropene	1920	58.8	118	ug/kg dry	50	2350	ND	82	71-130%	---	---	
Ethylbenzene	2280	29.4	58.8	ug/kg dry	50	2350	ND	97	76-122%	---	---	
Hexachlorobutadiene	3100	118	235	ug/kg dry	50	2350	ND	132	61-135%	---	---	
2-Hexanone	4250	588	1180	ug/kg dry	50	4700	ND	90	53-145%	---	---	
Isopropylbenzene	2550	58.8	118	ug/kg dry	50	2350	ND	108	68-134%	---	---	
4-Isopropyltoluene	3300	58.8	118	ug/kg dry	50	2350	235	130	73-127%	---	---	Q-01
Methylene chloride	3050	588	1180	ug/kg dry	50	2350	ND	130	70-128%	---	---	Q-01
4-Methyl-2-pentanone (MIBK)	4390	588	1180	ug/kg dry	50	4700	ND	93	65-135%	---	---	
Methyl tert-butyl ether (MTBE)	2500	58.8	118	ug/kg dry	50	2350	ND	106	73-125%	---	---	
Naphthalene	3000	118	235	ug/kg dry	50	2350	ND	115	62-129%	---	---	
n-Propylbenzene	2630	29.4	58.8	ug/kg dry	50	2350	ND	112	73-125%	---	---	
Styrene	2590	58.8	118	ug/kg dry	50	2350	ND	110	76-124%	---	---	
1,1,1,2-Tetrachloroethane	1920	29.4	58.8	ug/kg dry	50	2350	ND	82	78-125%	---	---	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310960 - EPA 5035A						Soil						
Matrix Spike (2310960-MS1)						Prepared: 09/27/23 14:00 Analyzed: 09/28/23 23:04						
QC Source Sample: Non-SDG (A311521-02)												
1,1,2,2-Tetrachloroethane	2520	58.8	118	ug/kg dry	50	2350	ND	92	70-124%	---	---	
Tetrachloroethene (PCE)	2640	29.4	58.8	ug/kg dry	50	2350	ND	112	73-128%	---	---	
Toluene	2320	58.8	118	ug/kg dry	50	2350	ND	99	77-121%	---	---	
1,2,3-Trichlorobenzene	2390	294	588	ug/kg dry	50	2350	ND	102	66-130%	---	---	
1,2,4-Trichlorobenzene	2670	294	588	ug/kg dry	50	2350	ND	113	67-129%	---	---	
1,1,1-Trichloroethane	2270	29.4	58.8	ug/kg dry	50	2350	ND	96	73-130%	---	---	
1,1,2-Trichloroethane	2320	29.4	58.8	ug/kg dry	50	2350	ND	99	78-121%	---	---	
Trichloroethene (TCE)	3130	29.4	58.8	ug/kg dry	50	2350	ND	133	77-123%	---	---	Q-01
Trichlorofluoromethane	1370	118	235	ug/kg dry	50	2350	ND	58	62-140%	---	---	Q-01
1,2,3-Trichloropropane	2130	58.8	118	ug/kg dry	50	2350	ND	83	73-125%	---	---	
1,2,4-Trimethylbenzene	2690	58.8	118	ug/kg dry	50	2350	105	110	75-123%	---	---	
1,3,5-Trimethylbenzene	2730	58.8	118	ug/kg dry	50	2350	165	109	73-124%	---	---	
Vinyl chloride	3790	29.4	58.8	ug/kg dry	50	2350	ND	161	56-135%	---	---	Q-54j
m,p-Xylene	4720	58.8	118	ug/kg dry	50	4700	ND	100	77-124%	---	---	
o-Xylene	2430	29.4	58.8	ug/kg dry	50	2350	ND	103	77-123%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 130 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>		<i>S-06</i>				
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>106 %</i>		<i>79-120 %</i>		<i>"</i>						

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Darwin Thomas, Business Development Director



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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
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QUALITY CONTROL (QC) SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310913 - EPA 1311/5030C TCLP Volatiles						Soil						
Blank (2310913-BLK1)						Prepared: 09/27/23 18:03 Analyzed: 09/28/23 01:31						TCLPb
<u>1311/8260D</u>												
Benzene	ND	6.25	12.5	ug/L	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/L	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 106 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
Blank (2310913-BLK2)						Prepared: 09/27/23 18:03 Analyzed: 09/28/23 01:53						TCLPb
<u>1311/8260D</u>												
Benzene	ND	6.25	12.5	ug/L	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/L	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 107 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>103 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>"</i>						
LCS (2310913-BS1)						Prepared: 09/27/23 18:03 Analyzed: 09/28/23 00:45						TCLPb

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QUALITY CONTROL (QC) SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310913 - EPA 1311/5030C TCLP Volatiles						Soil						
LCS (2310913-BS1)						Prepared: 09/27/23 18:03 Analyzed: 09/28/23 00:45						TCLPb
<u>1311/8260D</u>												
Benzene	1080	6.25	12.5	ug/L	50	1000	---	108	80-120%	---	---	
2-Butanone (MEK)	2110	250	500	ug/L	50	2000	---	105	80-120%	---	---	
Carbon tetrachloride	1150	12.5	25.0	ug/L	50	1000	---	115	80-120%	---	---	
Chlorobenzene	1060	12.5	25.0	ug/L	50	1000	---	106	80-120%	---	---	
Chloroform	1110	25.0	50.0	ug/L	50	1000	---	111	80-120%	---	---	
1,4-Dichlorobenzene	1030	12.5	25.0	ug/L	50	1000	---	103	80-120%	---	---	
1,1-Dichloroethene	1460	12.5	25.0	ug/L	50	1000	---	146	80-120%	---	---	Q-56
1,2-Dichloroethane (EDC)	1130	12.5	25.0	ug/L	50	1000	---	113	80-120%	---	---	
Tetrachloroethene (PCE)	1040	12.5	25.0	ug/L	50	1000	---	104	80-120%	---	---	
Trichloroethene (TCE)	1070	12.5	25.0	ug/L	50	1000	---	107	80-120%	---	---	
Vinyl chloride	1240	12.5	25.0	ug/L	50	1000	---	124	80-120%	---	---	Q-56
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 104 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		92 %		80-120 %		"						

Duplicate (2310913-DUP1)						Prepared: 09/27/23 18:03 Analyzed: 09/28/23 02:38						
<u>QC Source Sample: Non-SDG (A311286-01)</u>												
Benzene	ND	6.25	12.5	ug/L	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	250	500	ug/L	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Chloroform	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 108 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		102 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						

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6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310913 - EPA 1311/5030C TCLP Volatiles						Soil						
Matrix Spike (2310913-MS1)						Prepared: 09/27/23 18:03 Analyzed: 09/28/23 04:53						
QC Source Sample: Non-SDG (A311286-03)												
1311/8260D												
Benzene	1150	6.25	12.5	ug/L	50	1000	ND	115	79-120%	---	---	
2-Butanone (MEK)	2100	250	500	ug/L	50	2000	ND	105	56-143%	---	---	
Carbon tetrachloride	1280	12.5	25.0	ug/L	50	1000	ND	128	72-136%	---	---	
Chlorobenzene	1130	12.5	25.0	ug/L	50	1000	ND	113	80-120%	---	---	
Chloroform	1180	25.0	50.0	ug/L	50	1000	ND	118	79-124%	---	---	
1,4-Dichlorobenzene	1060	12.5	25.0	ug/L	50	1000	ND	106	79-120%	---	---	
1,1-Dichloroethene	1590	12.5	25.0	ug/L	50	1000	ND	159	71-131%	---	---	Q-54h
1,2-Dichloroethane (EDC)	1200	12.5	25.0	ug/L	50	1000	ND	120	73-128%	---	---	
Tetrachloroethene (PCE)	1140	12.5	25.0	ug/L	50	1000	ND	114	74-129%	---	---	
Trichloroethene (TCE)	1140	12.5	25.0	ug/L	50	1000	ND	114	79-123%	---	---	
Vinyl chloride	1340	12.5	25.0	ug/L	50	1000	ND	134	58-137%	---	---	Q-54m
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>91 %</i>		<i>80-120 %</i>		<i>"</i>						

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310893 - EPA 3546						Solid						
Blank (2310893-BLK1)			Prepared: 09/27/23 11:36 Analyzed: 09/27/23 17:42									
<u>EPA 8270E</u>												
Acenaphthene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Chrysene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Fluoranthene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Fluorene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
Naphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
Phenanthrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Pyrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Carbazole	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Dibenzofuran	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
2-Chlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
2-Methylphenol	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Nitrophenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
4-Nitrophenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Phenol	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310893 - EPA 3546						Solid						
Blank (2310893-BLK1)			Prepared: 09/27/23 11:36 Analyzed: 09/27/23 17:42									
2,3,5,6-Tetrachlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	20.0	40.0	ug/kg wet	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Diethylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Dimethylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2,2'-Oxybis(1-Chloropropane)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Hexachloroethane	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Aniline	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
4-Chloroaniline	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
3-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
4-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
Nitrobenzene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Benzoic acid	ND	167	333	ug/kg wet	1	---	---	---	---	---	---	
Benzyl alcohol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Isophorone	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310893 - EPA 3546						Solid						
Blank (2310893-BLK1)			Prepared: 09/27/23 11:36 Analyzed: 09/27/23 17:42									
Azobenzene (1,2-DPH)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Ethylhexyl) adipate	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	Q-52
1,2-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
Pyridine	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 84 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 1x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>77 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>80 %</i>		<i>33-122 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>82 %</i>		<i>54-127 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>82 %</i>		<i>35-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>78 %</i>		<i>39-132 %</i>		<i>"</i>						

LCS (2310893-BS1)			Prepared: 09/27/23 11:36 Analyzed: 09/27/23 20:17									Q-18
EPA 8270E												
Acenaphthene	454	5.32	10.7	ug/kg wet	4	533	---	85	40-123%	---	---	
Acenaphthylene	422	5.32	10.7	ug/kg wet	4	533	---	79	32-132%	---	---	
Anthracene	459	5.32	10.7	ug/kg wet	4	533	---	86	47-123%	---	---	
Benz(a)anthracene	454	5.32	10.7	ug/kg wet	4	533	---	85	49-126%	---	---	
Benzo(a)pyrene	503	8.00	16.0	ug/kg wet	4	533	---	94	45-129%	---	---	
Benzo(b)fluoranthene	456	8.00	16.0	ug/kg wet	4	533	---	86	45-132%	---	---	
Benzo(k)fluoranthene	483	8.00	16.0	ug/kg wet	4	533	---	91	47-132%	---	---	
Benzo(g,h,i)perylene	464	5.32	10.7	ug/kg wet	4	533	---	87	43-134%	---	---	
Chrysene	445	5.32	10.7	ug/kg wet	4	533	---	83	50-124%	---	---	
Dibenz(a,h)anthracene	465	5.32	10.7	ug/kg wet	4	533	---	87	45-134%	---	---	
Fluoranthene	483	5.32	10.7	ug/kg wet	4	533	---	91	50-127%	---	---	
Fluorene	422	5.32	10.7	ug/kg wet	4	533	---	79	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	432	5.32	10.7	ug/kg wet	4	533	---	81	45-133%	---	---	
1-Methylnaphthalene	410	10.7	21.3	ug/kg wet	4	533	---	77	40-120%	---	---	
2-Methylnaphthalene	426	10.7	21.3	ug/kg wet	4	533	---	80	38-122%	---	---	

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310893 - EPA 3546							Solid					
LCS (2310893-BS1)							Prepared: 09/27/23 11:36 Analyzed: 09/27/23 20:17				Q-18	
Naphthalene	442	10.7	21.3	ug/kg wet	4	533	---	83	35-123%	---	---	
Phenanthrene	434	5.32	10.7	ug/kg wet	4	533	---	81	50-121%	---	---	
Pyrene	465	5.32	10.7	ug/kg wet	4	533	---	87	47-127%	---	---	
Carbazole	469	8.00	16.0	ug/kg wet	4	533	---	88	50-123%	---	---	
Dibenzofuran	445	5.32	10.7	ug/kg wet	4	533	---	83	44-120%	---	---	
2-Chlorophenol	457	26.7	53.2	ug/kg wet	4	533	---	86	34-121%	---	---	
4-Chloro-3-methylphenol	387	53.2	107	ug/kg wet	4	533	---	73	45-122%	---	---	
2,4-Dichlorophenol	462	26.7	53.2	ug/kg wet	4	533	---	87	40-122%	---	---	
2,4-Dimethylphenol	481	26.7	53.2	ug/kg wet	4	533	---	90	30-127%	---	---	
2,4-Dinitrophenol	395	133	267	ug/kg wet	4	533	---	74	10-137%	---	---	
4,6-Dinitro-2-methylphenol	465	133	267	ug/kg wet	4	533	---	87	29-132%	---	---	
2-Methylphenol	451	13.3	26.7	ug/kg wet	4	533	---	85	32-122%	---	---	
3+4-Methylphenol(s)	471	13.3	26.7	ug/kg wet	4	533	---	88	34-120%	---	---	
2-Nitrophenol	465	53.2	107	ug/kg wet	4	533	---	87	36-123%	---	---	
4-Nitrophenol	408	53.2	107	ug/kg wet	4	533	---	76	30-132%	---	---	
Pentachlorophenol (PCP)	405	53.2	107	ug/kg wet	4	533	---	76	25-133%	---	---	
Phenol	471	10.7	21.3	ug/kg wet	4	533	---	88	34-121%	---	---	
2,3,4,6-Tetrachlorophenol	463	26.7	53.2	ug/kg wet	4	533	---	87	44-125%	---	---	
2,3,5,6-Tetrachlorophenol	442	26.7	53.2	ug/kg wet	4	533	---	83	40-120%	---	---	
2,4,5-Trichlorophenol	441	26.7	53.2	ug/kg wet	4	533	---	83	41-124%	---	---	
2,4,6-Trichlorophenol	452	26.7	53.2	ug/kg wet	4	533	---	85	39-126%	---	---	
Bis(2-ethylhexyl)phthalate	460	80.0	160	ug/kg wet	4	533	---	86	51-133%	---	---	
Butyl benzyl phthalate	468	53.2	107	ug/kg wet	4	533	---	88	48-132%	---	---	
Diethylphthalate	479	53.2	107	ug/kg wet	4	533	---	90	50-124%	---	---	
Dimethylphthalate	452	53.2	107	ug/kg wet	4	533	---	85	48-124%	---	---	
Di-n-butylphthalate	518	53.2	107	ug/kg wet	4	533	---	97	51-128%	---	---	
Di-n-octyl phthalate	484	53.2	107	ug/kg wet	4	533	---	91	45-140%	---	---	
N-Nitrosodimethylamine	453	13.3	26.7	ug/kg wet	4	533	---	85	23-120%	---	---	
N-Nitroso-di-n-propylamine	463	13.3	26.7	ug/kg wet	4	533	---	87	36-120%	---	---	
N-Nitrosodiphenylamine	436	13.3	26.7	ug/kg wet	4	533	---	82	38-127%	---	---	
Bis(2-Chloroethoxy) methane	433	13.3	26.7	ug/kg wet	4	533	---	81	36-121%	---	---	
Bis(2-Chloroethyl) ether	441	13.3	26.7	ug/kg wet	4	533	---	83	31-120%	---	---	
2,2'-Oxybis(1-Chloropropane)	496	13.3	26.7	ug/kg wet	4	533	---	93	39-120%	---	---	
Hexachlorobenzene	436	5.32	10.7	ug/kg wet	4	533	---	82	45-122%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310893 - EPA 3546						Solid						
LCS (2310893-BS1)						Prepared: 09/27/23 11:36 Analyzed: 09/27/23 20:17						Q-18
Hexachlorobutadiene	432	13.3	26.7	ug/kg wet	4	533	---	81	32-123%	---	---	
Hexachlorocyclopentadiene	270	26.7	53.2	ug/kg wet	4	533	---	51	10-140%	---	---	
Hexachloroethane	416	13.3	26.7	ug/kg wet	4	533	---	78	28-120%	---	---	
2-Chloronaphthalene	446	5.32	10.7	ug/kg wet	4	533	---	84	41-120%	---	---	
1,2,4-Trichlorobenzene	428	13.3	26.7	ug/kg wet	4	533	---	80	34-120%	---	---	
4-Bromophenyl phenyl ether	445	13.3	26.7	ug/kg wet	4	533	---	83	46-124%	---	---	
4-Chlorophenyl phenyl ether	447	13.3	26.7	ug/kg wet	4	533	---	84	45-121%	---	---	
Aniline	400	26.7	53.2	ug/kg wet	4	533	---	75	10-120%	---	---	
4-Chloroaniline	278	13.3	26.7	ug/kg wet	4	533	---	52	17-120%	---	---	Q-41
2-Nitroaniline	491	107	213	ug/kg wet	4	533	---	92	44-127%	---	---	
3-Nitroaniline	408	107	213	ug/kg wet	4	533	---	76	33-120%	---	---	
4-Nitroaniline	456	107	213	ug/kg wet	4	533	---	85	51-125%	---	---	
Nitrobenzene	438	53.2	107	ug/kg wet	4	533	---	82	34-122%	---	---	
2,4-Dinitrotoluene	478	53.2	107	ug/kg wet	4	533	---	90	48-126%	---	---	
2,6-Dinitrotoluene	450	53.2	107	ug/kg wet	4	533	---	84	46-124%	---	---	
Benzoic acid	658	400	400	ug/kg wet	4	1070	---	62	10-140%	---	---	
Benzyl alcohol	417	26.7	53.2	ug/kg wet	4	533	---	78	29-122%	---	---	
Isophorone	435	13.3	26.7	ug/kg wet	4	533	---	82	30-122%	---	---	
Azobenzene (1,2-DPH)	475	13.3	26.7	ug/kg wet	4	533	---	89	39-125%	---	---	
Bis(2-Ethylhexyl) adipate	459	133	267	ug/kg wet	4	533	---	86	61-121%	---	---	
3,3'-Dichlorobenzidine	2560	107	213	ug/kg wet	4	1070	---	240	22-121%	---	---	Q-29, Q-52
1,2-Dinitrobenzene	391	133	267	ug/kg wet	4	533	---	73	44-120%	---	---	
1,3-Dinitrobenzene	426	133	267	ug/kg wet	4	533	---	80	43-127%	---	---	
1,4-Dinitrobenzene	436	133	267	ug/kg wet	4	533	---	82	37-132%	---	---	
Pyridine	406	26.7	53.2	ug/kg wet	4	533	---	76	10-120%	---	---	
1,2-Dichlorobenzene	431	13.3	26.7	ug/kg wet	4	533	---	81	33-120%	---	---	
1,3-Dichlorobenzene	433	13.3	26.7	ug/kg wet	4	533	---	81	30-120%	---	---	
1,4-Dichlorobenzene	417	13.3	26.7	ug/kg wet	4	533	---	78	31-120%	---	---	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 77 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 4x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>81 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>86 %</i>		<i>33-122 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>87 %</i>		<i>54-127 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>85 %</i>		<i>35-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>78 %</i>		<i>39-132 %</i>		<i>"</i>						

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310893 - EPA 3546							Solid					
Duplicate (2310893-DUP2)			Prepared: 09/27/23 11:36 Analyzed: 09/28/23 10:33						R-04			
QC Source Sample: Non-SDG (A311235-01RE1)												
Acenaphthene	ND	15.9	31.9	ug/kg wet	4	---	ND	---	---	---	30%	
Acenaphthylene	ND	15.9	31.9	ug/kg wet	4	---	ND	---	---	---	30%	
Anthracene	ND	15.9	31.9	ug/kg wet	4	---	ND	---	---	---	30%	
Benz(a)anthracene	ND	15.9	31.9	ug/kg wet	4	---	ND	---	---	---	30%	
Benzo(a)pyrene	ND	23.9	47.8	ug/kg wet	4	---	ND	---	---	---	30%	
Benzo(b)fluoranthene	ND	23.9	47.8	ug/kg wet	4	---	ND	---	---	---	30%	
Benzo(k)fluoranthene	ND	23.9	47.8	ug/kg wet	4	---	ND	---	---	---	30%	
Benzo(g,h,i)perylene	ND	15.9	31.9	ug/kg wet	4	---	ND	---	---	---	30%	
Chrysene	ND	15.9	31.9	ug/kg wet	4	---	ND	---	---	---	30%	
Dibenz(a,h)anthracene	ND	15.9	31.9	ug/kg wet	4	---	ND	---	---	---	30%	
Fluoranthene	ND	15.9	31.9	ug/kg wet	4	---	ND	---	---	---	30%	
Fluorene	ND	15.9	31.9	ug/kg wet	4	---	ND	---	---	---	30%	
Indeno(1,2,3-cd)pyrene	ND	15.9	31.9	ug/kg wet	4	---	ND	---	---	---	30%	
1-Methylnaphthalene	ND	31.9	63.7	ug/kg wet	4	---	ND	---	---	---	30%	
2-Methylnaphthalene	ND	31.9	63.7	ug/kg wet	4	---	ND	---	---	---	30%	
Naphthalene	ND	31.9	63.7	ug/kg wet	4	---	ND	---	---	---	30%	
Phenanthrene	ND	15.9	31.9	ug/kg wet	4	---	ND	---	---	---	30%	
Pyrene	ND	15.9	31.9	ug/kg wet	4	---	ND	---	---	---	30%	
Carbazole	ND	23.9	47.8	ug/kg wet	4	---	ND	---	---	---	30%	
Dibenzofuran	ND	15.9	31.9	ug/kg wet	4	---	ND	---	---	---	30%	
2-Chlorophenol	ND	79.7	159	ug/kg wet	4	---	ND	---	---	---	30%	
4-Chloro-3-methylphenol	ND	159	319	ug/kg wet	4	---	ND	---	---	---	30%	
2,4-Dichlorophenol	ND	79.7	159	ug/kg wet	4	---	ND	---	---	---	30%	
2,4-Dimethylphenol	ND	79.7	159	ug/kg wet	4	---	ND	---	---	---	30%	
2,4-Dinitrophenol	ND	398	797	ug/kg wet	4	---	ND	---	---	---	30%	
4,6-Dinitro-2-methylphenol	ND	398	797	ug/kg wet	4	---	ND	---	---	---	30%	
2-Methylphenol	ND	39.8	79.7	ug/kg wet	4	---	ND	---	---	---	30%	
3+4-Methylphenol(s)	ND	39.8	79.7	ug/kg wet	4	---	ND	---	---	---	30%	
2-Nitrophenol	ND	159	319	ug/kg wet	4	---	ND	---	---	---	30%	
4-Nitrophenol	ND	159	319	ug/kg wet	4	---	ND	---	---	---	30%	
Pentachlorophenol (PCP)	ND	159	319	ug/kg wet	4	---	ND	---	---	---	30%	
Phenol	ND	31.9	63.7	ug/kg wet	4	---	ND	---	---	---	30%	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310893 - EPA 3546							Solid					
Duplicate (2310893-DUP2)			Prepared: 09/27/23 11:36 Analyzed: 09/28/23 10:33						R-04			
QC Source Sample: Non-SDG (A311235-01RE1)												
2,3,4,6-Tetrachlorophenol	ND	79.7	159	ug/kg wet	4	---	ND	---	---	---	30%	
2,3,5,6-Tetrachlorophenol	ND	79.7	159	ug/kg wet	4	---	ND	---	---	---	30%	
2,4,5-Trichlorophenol	ND	79.7	159	ug/kg wet	4	---	ND	---	---	---	30%	
2,4,6-Trichlorophenol	ND	159	159	ug/kg wet	4	---	ND	---	---	---	30%	
Bis(2-ethylhexyl)phthalate	ND	239	478	ug/kg wet	4	---	ND	---	---	---	30%	
Butyl benzyl phthalate	ND	159	319	ug/kg wet	4	---	ND	---	---	---	30%	
Diethylphthalate	ND	159	319	ug/kg wet	4	---	ND	---	---	---	30%	
Dimethylphthalate	ND	159	319	ug/kg wet	4	---	ND	---	---	---	30%	
Di-n-butylphthalate	ND	159	319	ug/kg wet	4	---	ND	---	---	---	30%	
Di-n-octyl phthalate	ND	159	319	ug/kg wet	4	---	ND	---	---	---	30%	
N-Nitrosodimethylamine	ND	39.8	79.7	ug/kg wet	4	---	ND	---	---	---	30%	
N-Nitroso-di-n-propylamine	ND	39.8	79.7	ug/kg wet	4	---	ND	---	---	---	30%	
N-Nitrosodiphenylamine	ND	39.8	79.7	ug/kg wet	4	---	ND	---	---	---	30%	
Bis(2-Chloroethoxy) methane	ND	39.8	79.7	ug/kg wet	4	---	ND	---	---	---	30%	
Bis(2-Chloroethyl) ether	ND	39.8	79.7	ug/kg wet	4	---	ND	---	---	---	30%	
2,2'-Oxybis(1-Chloropropane)	ND	39.8	79.7	ug/kg wet	4	---	ND	---	---	---	30%	
Hexachlorobenzene	ND	15.9	31.9	ug/kg wet	4	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	39.8	79.7	ug/kg wet	4	---	ND	---	---	---	30%	
Hexachlorocyclopentadiene	ND	79.7	159	ug/kg wet	4	---	ND	---	---	---	30%	
Hexachloroethane	ND	39.8	79.7	ug/kg wet	4	---	ND	---	---	---	30%	
2-Chloronaphthalene	ND	15.9	31.9	ug/kg wet	4	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	39.8	79.7	ug/kg wet	4	---	ND	---	---	---	30%	
4-Bromophenyl phenyl ether	ND	39.8	79.7	ug/kg wet	4	---	ND	---	---	---	30%	
4-Chlorophenyl phenyl ether	ND	39.8	79.7	ug/kg wet	4	---	ND	---	---	---	30%	
Aniline	ND	79.7	159	ug/kg wet	4	---	ND	---	---	---	30%	
4-Chloroaniline	ND	39.8	79.7	ug/kg wet	4	---	ND	---	---	---	30%	
2-Nitroaniline	ND	319	637	ug/kg wet	4	---	ND	---	---	---	30%	
3-Nitroaniline	ND	319	637	ug/kg wet	4	---	ND	---	---	---	30%	
4-Nitroaniline	ND	319	637	ug/kg wet	4	---	ND	---	---	---	30%	
Nitrobenzene	ND	159	319	ug/kg wet	4	---	ND	---	---	---	30%	
2,4-Dinitrotoluene	ND	159	319	ug/kg wet	4	---	ND	---	---	---	30%	
2,6-Dinitrotoluene	ND	159	319	ug/kg wet	4	---	ND	---	---	---	30%	
Benzoic acid	ND	2000	3980	ug/kg wet	4	---	ND	---	---	---	30%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310893 - EPA 3546						Solid						
Duplicate (2310893-DUP2)						Prepared: 09/27/23 11:36 Analyzed: 09/28/23 10:33						R-04
QC Source Sample: Non-SDG (A311235-01RE1)												
Benzyl alcohol	ND	79.7	159	ug/kg wet	4	---	ND	---	---	---	30%	
Isophorone	ND	39.8	79.7	ug/kg wet	4	---	ND	---	---	---	30%	
Azobenzene (1,2-DPH)	ND	39.8	79.7	ug/kg wet	4	---	ND	---	---	---	30%	
Bis(2-Ethylhexyl) adipate	ND	398	797	ug/kg wet	4	---	ND	---	---	---	30%	
3,3'-Dichlorobenzidine	ND	319	637	ug/kg wet	4	---	ND	---	---	---	30%	Q-52
1,2-Dinitrobenzene	ND	398	797	ug/kg wet	4	---	ND	---	---	---	30%	
1,3-Dinitrobenzene	ND	398	797	ug/kg wet	4	---	ND	---	---	---	30%	
1,4-Dinitrobenzene	ND	398	797	ug/kg wet	4	---	ND	---	---	---	30%	
Pyridine	ND	79.7	159	ug/kg wet	4	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	39.8	79.7	ug/kg wet	4	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	39.8	79.7	ug/kg wet	4	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	39.8	79.7	ug/kg wet	4	---	ND	---	---	---	30%	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 78 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 4x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>83 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>79 %</i>		<i>33-122 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>88 %</i>		<i>54-127 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>75 %</i>		<i>35-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>66 %</i>		<i>39-132 %</i>		<i>"</i>						

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-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J0037 - EPA 3051A												
Solid												
Blank (23J0037-BLK1)												
						Prepared: 10/02/23 15:46 Analyzed: 10/02/23 21:11						
EPA 6020B												
Arsenic	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Barium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	100	200	ug/kg wet	10	---	---	---	---	---	---	
Chromium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Lead	ND	100	200	ug/kg wet	10	---	---	---	---	---	---	
Mercury	ND	40.0	80.0	ug/kg wet	10	---	---	---	---	---	---	
Selenium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Silver	ND	100	200	ug/kg wet	10	---	---	---	---	---	---	
LCS (23J0037-BS1)												
						Prepared: 10/02/23 15:46 Analyzed: 10/02/23 21:16						
EPA 6020B												
Arsenic	50000	500	1000	ug/kg wet	10	50000	---	100	80-120%	---	---	
Barium	54000	500	1000	ug/kg wet	10	50000	---	108	80-120%	---	---	
Cadmium	51500	100	200	ug/kg wet	10	50000	---	103	80-120%	---	---	
Chromium	51500	500	1000	ug/kg wet	10	50000	---	103	80-120%	---	---	
Lead	52600	100	200	ug/kg wet	10	50000	---	105	80-120%	---	---	
Mercury	1020	40.0	80.0	ug/kg wet	10	1000	---	102	80-120%	---	---	
Selenium	24700	500	1000	ug/kg wet	10	25000	---	99	80-120%	---	---	
Silver	26600	100	200	ug/kg wet	10	25000	---	106	80-120%	---	---	
Duplicate (23J0037-DUP1)												
						Prepared: 10/02/23 15:46 Analyzed: 10/02/23 21:26						
QC Source Sample: Non-SDG (A311258-01)												
Arsenic	52300	7560	15100	ug/kg dry	10	---	55100	---	---	5	20%	
Barium	105000	7560	15100	ug/kg dry	10	---	112000	---	---	6	20%	
Cadmium	ND	1510	3030	ug/kg dry	10	---	ND	---	---	---	20%	
Chromium	332000	7560	15100	ug/kg dry	10	---	355000	---	---	7	20%	
Lead	4210	1510	3030	ug/kg dry	10	---	5680	---	---	30	20%	Q-05
Mercury	ND	605	1210	ug/kg dry	10	---	ND	---	---	---	20%	
Selenium	ND	7560	15100	ug/kg dry	10	---	7560	---	---	***	20%	
Silver	ND	1510	3030	ug/kg dry	10	---	ND	---	---	---	20%	
Matrix Spike (23J0037-MS1)												
						Prepared: 10/02/23 15:46 Analyzed: 10/02/23 21:31						

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J0037 - EPA 3051A						Solid						
Matrix Spike (23J0037-MS1)						Prepared: 10/02/23 15:46 Analyzed: 10/02/23 21:31						
QC Source Sample: Non-SDG (A311258-01)												
EPA 6020B												
Arsenic	785000	7490	15000	ug/kg dry	10	749000	55100	97	75-125%	---	---	
Barium	875000	7490	15000	ug/kg dry	10	749000	112000	102	75-125%	---	---	
Cadmium	742000	1500	2990	ug/kg dry	10	749000	ND	99	75-125%	---	---	
Chromium	1090000	7490	15000	ug/kg dry	10	749000	355000	99	75-125%	---	---	
Lead	756000	1500	2990	ug/kg dry	10	749000	5680	100	75-125%	---	---	
Mercury	14700	599	1200	ug/kg dry	10	15000	ND	98	75-125%	---	---	
Selenium	373000	7490	15000	ug/kg dry	10	374000	7560	98	75-125%	---	---	
Silver	380000	1500	2990	ug/kg dry	10	374000	ND	101	75-125%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310896 - EPA 1311/3015A						Solid						
Blank (2310896-BLK1)			Prepared: 09/27/23 11:46 Analyzed: 09/27/23 18:28									
1311/6020B												
Arsenic	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLP
Barium	ND	2500	5000	ug/L	10	---	---	---	---	---	---	TCLP
Cadmium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLP
Chromium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLP
Lead	ND	25.0	50.0	ug/L	10	---	---	---	---	---	---	TCLP
Mercury	ND	3.75	7.00	ug/L	10	---	---	---	---	---	---	TCLP
Selenium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLP
Silver	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLP
LCS (2310896-BS1)												
										Prepared: 09/27/23 11:46 Analyzed: 09/27/23 18:33		
1311/6020B												
Arsenic	5160	50.0	100	ug/L	10	5000	---	103	80-120%	---	---	TCLP
Barium	10400	2500	5000	ug/L	10	10000	---	104	80-120%	---	---	TCLP
Cadmium	1030	50.0	100	ug/L	10	1000	---	103	80-120%	---	---	TCLP
Chromium	5310	50.0	100	ug/L	10	5000	---	106	80-120%	---	---	TCLP
Lead	5430	25.0	50.0	ug/L	10	5000	---	109	80-120%	---	---	TCLP
Mercury	101	3.75	7.00	ug/L	10	100	---	101	80-120%	---	---	TCLP
Selenium	1020	50.0	100	ug/L	10	1000	---	102	80-120%	---	---	TCLP
Silver	1020	50.0	100	ug/L	10	1000	---	102	80-120%	---	---	TCLP
Duplicate (2310896-DUP1)												
										Prepared: 09/27/23 11:46 Analyzed: 09/27/23 18:43		
QC Source Sample: Non-SDG (A3H1207-34)												
Arsenic	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	TCLPa
Barium	ND	2500	5000	ug/L	10	---	ND	---	---	---	20%	TCLPa
Cadmium	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	TCLPa
Chromium	263	50.0	100	ug/L	10	---	246	---	---	7	20%	TCLPa
Lead	4670	25.0	50.0	ug/L	10	---	4670	---	---	0.08	20%	TCLPa
Mercury	ND	3.75	7.00	ug/L	10	---	ND	---	---	---	20%	H-10, TCLPa
Selenium	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	TCLPa
Silver	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	TCLPa
Matrix Spike (2310896-MS1)												
										Prepared: 09/27/23 11:46 Analyzed: 09/27/23 18:48		

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
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QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310896 - EPA 1311/3015A						Solid						
Matrix Spike (2310896-MS1)						Prepared: 09/27/23 11:46 Analyzed: 09/27/23 18:48						
QC Source Sample: Non-SDG (A3H1207-34)												
1311/6020B												
Arsenic	4990	50.0	100	ug/L	10	5000	ND	100	50-150%	---	---	TCLPa
Barium	10700	2500	5000	ug/L	10	10000	ND	107	50-150%	---	---	TCLPa
Cadmium	1020	50.0	100	ug/L	10	1000	ND	102	50-150%	---	---	TCLPa
Chromium	5220	50.0	100	ug/L	10	5000	246	99	50-150%	---	---	TCLPa
Lead	9580	25.0	50.0	ug/L	10	5000	4670	98	50-150%	---	---	TCLPa
Mercury	95.7	3.75	7.00	ug/L	10	100	ND	96	50-150%	---	---	H-10, TCLPa
Selenium	1010	50.0	100	ug/L	10	1000	ND	101	50-150%	---	---	TCLPa
Silver	983	50.0	100	ug/L	10	1000	ND	98	50-150%	---	---	TCLPa
Matrix Spike (2310896-MS2)						Prepared: 09/27/23 11:46 Analyzed: 09/27/23 19:17						
QC Source Sample: FC-091923-2182 (A311260-01)												
1311/6020B												
Arsenic	4950	50.0	100	ug/L	10	5000	ND	99	50-150%	---	---	
Barium	10400	2500	5000	ug/L	10	10000	ND	104	50-150%	---	---	
Cadmium	1030	50.0	100	ug/L	10	1000	ND	103	50-150%	---	---	
Chromium	5090	50.0	100	ug/L	10	5000	ND	102	50-150%	---	---	
Lead	5180	25.0	50.0	ug/L	10	5000	ND	104	50-150%	---	---	
Mercury	98.8	3.75	7.00	ug/L	10	100	ND	99	50-150%	---	---	
Silver	1000	50.0	100	ug/L	10	1000	ND	100	50-150%	---	---	
Matrix Spike (2310896-MS4)						Prepared: 09/27/23 11:46 Analyzed: 09/28/23 12:00						
QC Source Sample: FC-091923-2182 (A311260-01RE2)												
1311/6020B												
Selenium	1010	50.0	100	ug/L	10	1000	ND	101	50-150%	---	---	Q-16

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QUALITY CONTROL (QC) SAMPLE RESULTS

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J0013 - ASTM D7511-12mod (S)						Soil						
Blank (23J0013-BLK1)						Prepared: 10/02/23 08:21 Analyzed: 10/03/23 15:57						
<u>D7511-12</u>												
Total Cyanide	ND	50.0	100	ug/kg wet	1	---	---	---	---	---	---	
LCS (23J0013-BS1)						Prepared: 10/02/23 08:21 Analyzed: 10/03/23 15:59						
<u>D7511-12</u>												
Total Cyanide	400	50.0	100	ug/kg wet	1	400	---	100	84-116%	---	---	
Matrix Spike (23J0013-MS1)						Prepared: 10/02/23 08:21 Analyzed: 10/03/23 16:15						
<u>QC Source Sample: FC-091923-2182 (A311260-01)</u>												
<u>D7511-12</u>												
Total Cyanide	9450	846	1690	ug/kg dry	5	1350	7020	179	64-136%	---	---	Q-04
Matrix Spike Dup (23J0013-MSD1)						Prepared: 10/02/23 08:21 Analyzed: 10/03/23 16:21						
<u>QC Source Sample: FC-091923-2182 (A311260-01)</u>												
<u>D7511-12</u>												
Total Cyanide	8850	849	1700	ug/kg dry	5	1360	7020	135	64-136%	7	47%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310688 - Total Solids (Dry Weight) - 2022												
Soil												
Duplicate (2310688-DUP1)												
						Prepared: 09/21/23 12:05 Analyzed: 09/22/23 06:30						
<u>QC Source Sample: Non-SDG (A311265-01)</u>												
% Solids	75.8	---	1.00	%	1	---	73.8	---	---	3	10%	
Duplicate (2310688-DUP2)												
						Prepared: 09/21/23 12:05 Analyzed: 09/22/23 06:30						
<u>QC Source Sample: Non-SDG (A311226-02)</u>												
% Solids	99.2	---	1.00	%	1	---	99.4	---	---	0.2	10%	PRO
Duplicate (2310688-DUP3)												
						Prepared: 09/21/23 12:05 Analyzed: 09/22/23 06:30						
<u>QC Source Sample: Non-SDG (A311226-03)</u>												
% Solids	80.6	---	1.00	%	1	---	80.8	---	---	0.2	10%	
Duplicate (2310688-DUP4)												
						Prepared: 09/21/23 12:05 Analyzed: 09/22/23 06:30						
<u>QC Source Sample: Non-SDG (A311226-04)</u>												
% Solids	98.9	---	1.00	%	1	---	99.5	---	---	0.6	10%	
Duplicate (2310688-DUP5)												
						Prepared: 09/21/23 12:05 Analyzed: 09/22/23 06:30						
<u>QC Source Sample: Non-SDG (A311226-05)</u>												
% Solids	83.7	---	1.00	%	1	---	83.7	---	---	0.02	10%	
Duplicate (2310688-DUP6)												
						Prepared: 09/21/23 12:05 Analyzed: 09/22/23 06:30						
<u>QC Source Sample: Non-SDG (A311226-06)</u>												
% Solids	99.2	---	1.00	%	1	---	99.3	---	---	0.07	10%	PRO
Duplicate (2310688-DUP7)												
						Prepared: 09/21/23 12:05 Analyzed: 09/22/23 06:30						
<u>QC Source Sample: Non-SDG (A311226-07)</u>												
% Solids	91.8	---	1.00	%	1	---	92.2	---	---	0.4	10%	
Duplicate (2310688-DUP8)												
						Prepared: 09/21/23 12:05 Analyzed: 09/22/23 06:30						
<u>QC Source Sample: Non-SDG (A311226-08)</u>												
% Solids	99.2	---	1.00	%	1	---	99.4	---	---	0.2	10%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310688 - Total Solids (Dry Weight) - 2022							Soil					
Duplicate (2310688-DUP9)			Prepared: 09/21/23 12:05 Analyzed: 09/22/23 06:30									
QC Source Sample: Non-SDG (A311227-01)												
% Solids	81.7	---	1.00	%	1	---	82.6	---	---	1	10%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Darwin Thomas, Business Development Director



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SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23J0006</u>							
A311260-01	Solid	NWTPH-Dx	09/19/23 02:00	10/02/23 05:07	5.01g/5mL	10g/5mL	2.00

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 2310840</u>							
A311260-01RE1	Solid	NWTPH-Gx (MS)	09/19/23 02:00	09/20/23 15:49	5.33g/5mL	5g/5mL	0.94

Volatile Organic Compounds by EPA 8260D

Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 2310840</u>							
A311260-01RE1	Solid	5035A/8260D	09/19/23 02:00	09/20/23 15:49	5.33g/5mL	5g/5mL	0.94
<u>Batch: 2310960</u>							
A311260-01RE2	Solid	5035A/8260D	09/19/23 02:00	09/20/23 15:49	5.33g/5mL	5g/5mL	0.94

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Prep: EPA 1311/5030C TCLP Volatiles					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 2310913</u>							
A311260-01	Solid	1311/8260D	09/19/23 02:00	09/27/23 18:03	5mL/5mL	5mL/5mL	1.00

Semivolatile Organic Compounds by EPA 8270E

Prep: EPA 3546					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 2310893</u>							
A311260-01	Solid	EPA 8270E	09/19/23 02:00	09/27/23 11:36	5.08g/2mL	15g/2mL	2.95

Total Metals by EPA 6020B (ICPMS)

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SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3051A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23J0037</u>							
A311260-01	Solid	EPA 6020B	09/19/23 02:00	10/02/23 15:46	0.476g/50mL	0.5g/50mL	1.05

TCLP Metals by EPA 6020B (ICPMS)

Prep: EPA 1311/3015A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23I0896</u>							
A311260-01	Solid	1311/6020B	09/19/23 02:00	09/27/23 11:46	10mL/50mL	10mL/50mL	1.00
A311260-01RE2	Solid	1311/6020B	09/19/23 02:00	09/27/23 11:46	10mL/50mL	10mL/50mL	1.00

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Prep: ASTM D7511-12mod (S)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23J0013</u>							
A311260-01	Solid	D7511-12	09/19/23 02:00	10/02/23 08:21	2.5116g/50mL	2.5g/50mL	1.00

Percent Dry Weight

Prep: Total Solids (Dry Weight) - 2022					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23I0688</u>							
A311260-01	Solid	EPA 8000D	09/19/23 02:00	09/21/23 12:05			NA

TCLP Extraction by EPA 1311

Prep: EPA 1311 (TCLP)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23I0823</u>							
A311260-01	Solid	EPA 1311	09/19/23 02:00	09/26/23 15:40	100g/2000.4g	100g/2000g	NA

Prep: EPA 1311 TCLP/ZHE					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23I0848</u>							
A311260-01	Solid	EPA 1311 ZHE	09/19/23 02:00	09/26/23 14:08	25.2g/500.2g	25g/500g	NA

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Sevenson Environmental Services, Inc.
2749 Lockport Road
Niagara Falls, NY 14305

Project: **Gasco -- Filtercake**
Project Number: **111323**
Project Manager: **Chip Byrd**

Report ID:
A311260 - 10 18 23 1006

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

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- E** Estimated Value. The result is above the calibration range of the instrument.
- F-13** The chromatographic pattern does not resemble the fuel standard used for quantitation
- H-10** This sample was TCLP extracted (leached) outside of the recommended holding time.
- ICV-01** Estimated Result. Initial Calibration Verification (ICV) failed high. There is no effect on non-detect results.
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- M-05** Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
- PRO** Sample has undergone sample processing prior to extraction and analysis.
- Q-01** Spike recovery and/or RPD is outside acceptance limits.
- Q-03** Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
- Q-04** Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- Q-05** Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- Q-16** Reanalysis of an original Batch QC sample.
- Q-18** Matrix Spike results for this extraction batch are not reported due to the high dilution necessary for analysis of the source sample.
- Q-29** Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
- Q-41** Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- Q-42** Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
- Q-52** Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
- Q-54** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +11%. The results are reported as Estimated Values.
- Q-54a** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +12%. The results are reported as Estimated Values.
- Q-54b** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +138%. The results are reported as Estimated Values.
- Q-54c** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +18%. The results are reported as Estimated Values.
- Q-54d** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +2%. The results are reported as Estimated Values.

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
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- Q-54e** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +20%. The results are reported as Estimated Values.
- Q-54f** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +22%. The results are reported as Estimated Values.
- Q-54g** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +23%. The results are reported as Estimated Values.
- Q-54h** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +26%. The results are reported as Estimated Values.
- Q-54i** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +32%. The results are reported as Estimated Values.
- Q-54j** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +33%. The results are reported as Estimated Values.
- Q-54k** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +34%. The results are reported as Estimated Values.
- Q-54l** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +36%. The results are reported as Estimated Values.
- Q-54m** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +4%. The results are reported as Estimated Values.
- Q-54n** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +43%. The results are reported as Estimated Values.
- Q-54o** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +46%. The results are reported as Estimated Values.
- Q-54p** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +51%. The results are reported as Estimated Values.
- Q-54q** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +53%. The results are reported as Estimated Values.
- Q-54r** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +6%. The results are reported as Estimated Values.
- Q-54s** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +60%. The results are reported as Estimated Values.
- Q-54t** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +65%. The results are reported as Estimated Values.
- Q-54u** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +67%. The results are reported as Estimated Values.
- Q-54v** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +7%. The results are reported as Estimated Values.
- Q-54w** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -10%. The results are reported as Estimated Values.
- Q-54x** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -2%. The results are reported as Estimated Values.

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A311260 - 10 18 23 1006
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- Q-54y** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by 46%. The results are reported as Estimated Values.
- Q-54z** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -8%. The results are reported as Estimated Values.
- Q-55** Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
- Q-56** Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260
- R-04** Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.
- S-01** Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
- S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- S-06** Surrogate recovery is outside of established control limits.
- TCLP** This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 2310823.
- TCLPa** Limited sample volume. Leachate was prepared using less than the specified amount of sample per EPA 1311 or 1312. For consistency in leaching, the standard 20x ratio of sample to leachate fluid was maintained. Results may not meet regulatory requirements.
- TCLPb** This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 2310848/2310801.
- V-15** Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

- DET Analyte DETECTED at or above the detection or reporting limit.
- ND Analyte NOT DETECTED at or above the detection or reporting limit.
- NR Result Not Reported
- RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

- " dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
- " wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
- " " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

Results for Volatiles analyses on soils and sediments that are reported on a "dry weight" basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an "As Received" basis do not have the WMS correction applied, as dry weight was not performed.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

- " --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- " *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

- Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
- For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
- For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
- For further details, please request a copy of this document.
- Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.
- 'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -
EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
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All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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 ORELAP ID: OR100062

Sevenson Environmental Services, Inc.
 2749 Lockport Road
 Niagara Falls, NY 14305

Project: **Gasco -- Filtercake**
 Project Number: **111323**
 Project Manager: **Chip Byrd**

Report ID:
A3I1260 - 10 18 23 1006

APEX LABS
 12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: Sevenson Environmental Services, Inc.
 Address: 2749 Lockport Road, Niagara Falls, NY 14305
 Sampled by: _____

Project Mgr: **Chip Byrd**
 Project Name: **Gasco - Filtercake**
 Project # **111323**

Phone: (716) 853-2754 Fax: _____
 E-mail: wbyrd@sevenson.com

Lab # 12110 of COC of

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	ANALYSIS REQUEST											
						#260 VOCs	1311/8260 TCLP VOCs	#270D LL Full List	Dry Weight								
FC-091923-2182		9-19-23	0750	S	1	X	X	X	X	X	X	X	X	X	X	X	X

Normal Turn Around Time (TAT) = 6-10 Business Days

TAT Requested (circle): 1 DAY 2 DAY 3 DAY 4 DAY 5 DAY **STD** Other: _____

SPECIAL INSTRUCTIONS:

RECEIVED BY:		RECEIVED BY:		RECEIVED BY:	
Signature	Date	Signature	Date	Signature	Date
	9-20-23		9/20/23		2/16/24 BC
	1007		1007		

Apex Laboratories

 Darwin Thomas, Business Development Director

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APEX LABS COOLER RECEIPT FORM

Client: Sevenson Environmental Services, Inc. Element WO#: A3 11260

Project/Project #: Gasco - Filtercake 111323

Delivery Info:
 Date/time received: 9/20/23 @ 1007 By: EST
 Delivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen Other

Cooler Inspection Date/time inspected: 9/20/23 @ 1055 By: EST
 Chain of Custody included? Yes No
 Signed/dated by client? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>2.5</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>Y</u>						
Ice type: (Gel/Real/Other)	<u>gel</u>						
Condition (In/Out):	<u>In</u>						

Cooler out of temp? (Y/N) Possible reason why: (N)
 Green dots applied to out of temperature samples? Yes No
 Out of temperature samples form initiated? Yes No

Sample Inspection: Date/time inspected: 9/20/23 @ 1520 By: JS
 All samples intact? Yes No Comments: _____

Bottle labels/COCs agree? Yes No Comments: Container ID reads #2182

COC/container discrepancies form initiated? Yes No
 Containers/volumes received appropriate for analysis? Yes No Comments: _____

Do VOA vials have visible headspace? Yes No NA
 Comments: _____

Water samples: pH checked: Yes No NA pH appropriate? Yes No NA pH ID: _____
 Comments: _____

Additional information:

Labeled by: JS Witness: DJS Cooler Inspected by: JS

Form Y-003 R-01

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Thursday, November 2, 2023

Chip Byrd
Sevenson Environmental Services, Inc.
2749 Lockport Road
Niagara Falls, NY 14305

RE: A3J1665 - Gasco -- Filtercake - 111323

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3J1665, which was received by the laboratory on 10/25/2023 at 10:15:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information
Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.
(See Cooler Receipt Form for details)
Default Cooler 4.1 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report. All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

Darwin Thomas signature

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3J1665 - 11 02 23 0938
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FC-102423-2199	A3J1665-01	Solid	10/24/23 07:30	10/25/23 10:15

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Darwin Thomas, Business Development Director



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ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
FC-102423-2199 (A3J1665-01)				Matrix: Solid		Batch: 23J1037		CONT	
Diesel	3600000	335000	669000	ug/kg dry	10	10/27/23 06:53	NWTPH-Dx	F-13	
Oil	ND	669000	1340000	ug/kg dry	10	10/27/23 06:53	NWTPH-Dx		
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 50-150 %</i>		<i>10</i>	<i>10/27/23 06:53</i>	<i>NWTPH-Dx</i>	<i>S-05</i>

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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-102423-2199 (A3J1665-01)				Matrix: Solid		Batch: 23J1058		V-15
Gasoline Range Organics	244000	20100	40200	ug/kg dry	50	10/27/23 01:03	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 114 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>10/27/23 01:03</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>97 %</i>	<i>50-150 %</i>	<i>1</i>	<i>10/27/23 01:03</i>	<i>NWTPH-Gx (MS)</i>	

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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-102423-2199 (A3J1665-01)				Matrix: Solid		Batch: 23J1058		V-15
Acetone	ND	8050	8050	ug/kg dry	50	10/27/23 01:03	5035A/8260D	ICV-02
Acrylonitrile	ND	402	805	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
Benzene	551	40.2	80.5	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
Bromobenzene	ND	101	201	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
Bromochloromethane	ND	201	402	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
Bromodichloromethane	ND	201	402	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
Bromoform	ND	402	805	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
Bromomethane	ND	4020	4020	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
2-Butanone (MEK)	ND	2010	4020	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
n-Butylbenzene	ND	201	402	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
sec-Butylbenzene	217	201	402	ug/kg dry	50	10/27/23 01:03	5035A/8260D	J
tert-Butylbenzene	ND	201	402	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
Carbon disulfide	ND	2010	4020	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
Carbon tetrachloride	ND	201	402	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
Chlorobenzene	ND	101	201	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
Chloroethane	ND	2010	4020	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
Chloroform	ND	201	402	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
Chloromethane	ND	1010	2010	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
2-Chlorotoluene	ND	201	402	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
4-Chlorotoluene	ND	201	402	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
Dibromochloromethane	ND	402	805	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	1010	2010	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	201	402	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
Dibromomethane	ND	201	402	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
1,2-Dichlorobenzene	ND	101	201	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
1,3-Dichlorobenzene	ND	101	201	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
1,4-Dichlorobenzene	ND	101	201	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
Dichlorodifluoromethane	ND	402	805	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
1,1-Dichloroethane	ND	101	201	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	101	201	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
1,1-Dichloroethene	ND	101	201	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
cis-1,2-Dichloroethene	ND	101	201	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
trans-1,2-Dichloroethene	ND	101	201	ug/kg dry	50	10/27/23 01:03	5035A/8260D	

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3J1665 - 11 02 23 0938
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-102423-2199 (A3J1665-01)				Matrix: Solid		Batch: 23J1058		V-15
1,2-Dichloropropane	ND	101	201	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
1,3-Dichloropropane	ND	201	402	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
2,2-Dichloropropane	ND	201	402	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
1,1-Dichloropropene	ND	201	402	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
cis-1,3-Dichloropropene	ND	201	402	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
trans-1,3-Dichloropropene	ND	201	402	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
Ethylbenzene	322	101	201	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
Hexachlorobutadiene	ND	402	805	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
2-Hexanone	ND	2010	4020	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
Isopropylbenzene	ND	201	402	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
4-Isopropyltoluene	201	201	402	ug/kg dry	50	10/27/23 01:03	5035A/8260D	J
Methylene chloride	ND	2010	4020	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
4-Methyl-2-pentanone (MIBK)	ND	2010	4020	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	201	402	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
Naphthalene	10800	805	1610	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
n-Propylbenzene	ND	101	201	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
Styrene	ND	201	402	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	101	201	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	201	402	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
Tetrachloroethene (PCE)	ND	101	201	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
Toluene	ND	201	402	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
1,2,3-Trichlorobenzene	ND	1010	2010	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
1,2,4-Trichlorobenzene	ND	1010	2010	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
1,1,1-Trichloroethane	ND	101	201	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
1,1,2-Trichloroethane	ND	101	201	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
Trichloroethene (TCE)	ND	101	201	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
Trichlorofluoromethane	ND	402	805	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
1,2,3-Trichloropropane	ND	201	402	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
1,2,4-Trimethylbenzene	507	201	402	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
1,3,5-Trimethylbenzene	ND	201	402	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
Vinyl chloride	ND	101	201	ug/kg dry	50	10/27/23 01:03	5035A/8260D	
m,p-Xylene	229	201	402	ug/kg dry	50	10/27/23 01:03	5035A/8260D	J
o-Xylene	221	101	201	ug/kg dry	50	10/27/23 01:03	5035A/8260D	

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3J1665 - 11 02 23 0938
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-102423-2199 (A3J1665-01)				Matrix: Solid		Batch: 23J1058		V-15
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>10/27/23 01:03</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>93 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/27/23 01:03</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>107 %</i>		<i>79-120 %</i>	<i>1</i>	<i>10/27/23 01:03</i>	<i>5035A/8260D</i>	

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ANALYTICAL SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-102423-2199 (A3J1665-01)				Matrix: Solid		Batch: 23J1123		CONT
Benzene	ND	10.0	10.0	ug/L	50	10/30/23 05:31	1311/8260D	
2-Butanone (MEK)	ND	250	500	ug/L	50	10/30/23 05:31	1311/8260D	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	10/30/23 05:31	1311/8260D	
Chlorobenzene	ND	12.5	25.0	ug/L	50	10/30/23 05:31	1311/8260D	
Chloroform	ND	25.0	50.0	ug/L	50	10/30/23 05:31	1311/8260D	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	10/30/23 05:31	1311/8260D	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	10/30/23 05:31	1311/8260D	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	10/30/23 05:31	1311/8260D	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	10/30/23 05:31	1311/8260D	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	10/30/23 05:31	1311/8260D	
Vinyl chloride	ND	25.0	25.0	ug/L	50	10/30/23 05:31	1311/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>10/30/23 05:31</i>	<i>1311/8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/30/23 05:31</i>	<i>1311/8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/30/23 05:31</i>	<i>1311/8260D</i>

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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-102423-2199 (A3J1665-01)				Matrix: Solid		Batch: 23J1038		CONT
Acenaphthene	37500	476	955	ug/kg dry	100	10/27/23 12:58	EPA 8270E	B
Acenaphthylene	ND	3040	3040	ug/kg dry	100	10/27/23 12:58	EPA 8270E	R-02
Anthracene	32000	476	955	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
Benz(a)anthracene	17900	476	955	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
Benzo(a)pyrene	18900	716	1430	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
Benzo(b)fluoranthene	14900	716	1430	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
Benzo(k)fluoranthene	6340	716	1430	ug/kg dry	100	10/27/23 12:58	EPA 8270E	M-05
Benzo(g,h,i)perylene	11100	476	955	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
Chrysene	24100	476	955	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
Dibenz(a,h)anthracene	1070	476	955	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
Fluoranthene	87600	476	955	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
Fluorene	24000	476	955	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
Indeno(1,2,3-cd)pyrene	8340	476	955	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
1-Methylnaphthalene	13600	955	1910	ug/kg dry	100	10/27/23 12:58	EPA 8270E	B
2-Methylnaphthalene	9870	955	1910	ug/kg dry	100	10/27/23 12:58	EPA 8270E	B
Naphthalene	4640	955	1910	ug/kg dry	100	10/27/23 12:58	EPA 8270E	Q-29, B
Phenanthrene	152000	476	955	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
Pyrene	104000	476	955	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
Carbazole	1900	716	1430	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
Dibenzofuran	3210	476	955	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
2-Chlorophenol	ND	2390	4760	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
4-Chloro-3-methylphenol	ND	4760	9550	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
2,4-Dichlorophenol	ND	2390	4760	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
2,4-Dimethylphenol	ND	2390	4760	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
2,4-Dinitrophenol	ND	11900	23900	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	11900	23900	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
2-Methylphenol	ND	1190	2390	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
3+4-Methylphenol(s)	ND	1190	2390	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
2-Nitrophenol	ND	4760	9550	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
4-Nitrophenol	ND	9550	9550	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
Pentachlorophenol (PCP)	ND	4760	9550	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
Phenol	ND	955	1910	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	2390	4760	ug/kg dry	100	10/27/23 12:58	EPA 8270E	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3J1665 - 11 02 23 0938
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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-102423-2199 (A3J1665-01)				Matrix: Solid		Batch: 23J1038		CONT
2,3,5,6-Tetrachlorophenol	ND	2390	4760	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
2,4,5-Trichlorophenol	ND	2390	4760	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
2,4,6-Trichlorophenol	ND	2390	4760	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	7160	14300	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
Butyl benzyl phthalate	ND	4760	9550	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
Diethylphthalate	ND	4760	9550	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
Dimethylphthalate	ND	4760	9550	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
Di-n-butylphthalate	ND	4760	9550	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
Di-n-octyl phthalate	ND	4760	9550	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
N-Nitrosodimethylamine	ND	1190	2390	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	1190	2390	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
N-Nitrosodiphenylamine	ND	5010	5010	ug/kg dry	100	10/27/23 12:58	EPA 8270E	R-02
Bis(2-Chloroethoxy) methane	ND	1190	2390	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	1190	2390	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	1190	2390	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
Hexachlorobenzene	ND	476	955	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
Hexachlorobutadiene	ND	1190	2390	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
Hexachlorocyclopentadiene	ND	2390	4760	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
Hexachloroethane	ND	1190	2390	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
2-Chloronaphthalene	ND	955	955	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
1,2,4-Trichlorobenzene	ND	1190	2390	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
4-Bromophenyl phenyl ether	ND	1190	2390	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	1190	2390	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
Aniline	ND	2390	4760	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
4-Chloroaniline	ND	1190	2390	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
2-Nitroaniline	ND	9550	19100	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
3-Nitroaniline	ND	9550	19100	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
4-Nitroaniline	ND	9550	19100	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
Nitrobenzene	ND	4760	9550	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
2,4-Dinitrotoluene	ND	9550	9550	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
2,6-Dinitrotoluene	ND	4760	9550	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
Benzoic acid	ND	59800	119000	ug/kg dry	100	10/27/23 12:58	EPA 8270E	
Benzyl alcohol	ND	2390	4760	ug/kg dry	100	10/27/23 12:58	EPA 8270E	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3J1665 - 11 02 23 0938
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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
FC-102423-2199 (A3J1665-01)				Matrix: Solid		Batch: 23J1038		CONT	
Isophorone	ND	1190	2390	ug/kg dry	100	10/27/23 12:58	EPA 8270E		
Azobenzene (1,2-DPH)	ND	1190	2390	ug/kg dry	100	10/27/23 12:58	EPA 8270E		
Bis(2-Ethylhexyl) adipate	ND	11900	23900	ug/kg dry	100	10/27/23 12:58	EPA 8270E		
3,3'-Dichlorobenzidine	ND	9550	19100	ug/kg dry	100	10/27/23 12:58	EPA 8270E	Q-52	
1,2-Dinitrobenzene	ND	11900	23900	ug/kg dry	100	10/27/23 12:58	EPA 8270E		
1,3-Dinitrobenzene	ND	11900	23900	ug/kg dry	100	10/27/23 12:58	EPA 8270E		
1,4-Dinitrobenzene	ND	11900	23900	ug/kg dry	100	10/27/23 12:58	EPA 8270E		
Pyridine	ND	2390	4760	ug/kg dry	100	10/27/23 12:58	EPA 8270E		
1,2-Dichlorobenzene	ND	1190	2390	ug/kg dry	100	10/27/23 12:58	EPA 8270E		
1,3-Dichlorobenzene	ND	1190	2390	ug/kg dry	100	10/27/23 12:58	EPA 8270E		
1,4-Dichlorobenzene	ND	1190	2390	ug/kg dry	100	10/27/23 12:58	EPA 8270E		
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 21 %</i>		<i>Limits: 37-122 %</i>		<i>100</i>	<i>10/27/23 12:58</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>2-Fluorobiphenyl (Surr)</i>		<i>108 %</i>		<i>44-120 %</i>		<i>100</i>	<i>10/27/23 12:58</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>Phenol-d6 (Surr)</i>		<i>47 %</i>		<i>33-122 %</i>		<i>100</i>	<i>10/27/23 12:58</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>69 %</i>		<i>54-127 %</i>		<i>100</i>	<i>10/27/23 12:58</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>2-Fluorophenol (Surr)</i>		<i>43 %</i>		<i>35-120 %</i>		<i>100</i>	<i>10/27/23 12:58</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>2,4,6-Tribromophenol (Surr)</i>		<i>76 %</i>		<i>39-132 %</i>		<i>100</i>	<i>10/27/23 12:58</i>	<i>EPA 8270E</i>	<i>S-05</i>

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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-102423-2199 (A3J1665-01)				Matrix: Solid				
Batch: 23J1140								
Arsenic	11400	1900	3800	ug/kg dry	10	10/30/23 17:17	EPA 6020B	CONT
Barium	207000	1900	3800	ug/kg dry	10	10/30/23 17:17	EPA 6020B	CONT
Cadmium	ND	380	761	ug/kg dry	10	10/30/23 17:17	EPA 6020B	CONT
Chromium	ND	1900	3800	ug/kg dry	10	10/30/23 17:17	EPA 6020B	CONT
Mercury	ND	152	304	ug/kg dry	10	10/30/23 17:17	EPA 6020B	CONT
Selenium	ND	1900	3800	ug/kg dry	10	10/30/23 17:17	EPA 6020B	CONT
Silver	ND	380	761	ug/kg dry	10	10/30/23 17:17	EPA 6020B	CONT
FC-102423-2199 (A3J1665-01RE1)				Matrix: Solid				
Batch: 23J1140								
Lead	ND	380	761	ug/kg dry	10	10/30/23 22:52	EPA 6020B	CONT

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Darwin Thomas, Business Development Director



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ANALYTICAL SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
FC-102423-2199 (A3J1665-01)				Matrix: Solid					
Batch: 23J1115									
Arsenic	ND	50.0	100	ug/L	10	10/28/23 01:38	1311/6020B	CONT	
Barium	ND	2500	5000	ug/L	10	10/28/23 01:38	1311/6020B	CONT	
Cadmium	ND	50.0	100	ug/L	10	10/28/23 01:38	1311/6020B	CONT	
Chromium	ND	50.0	100	ug/L	10	10/28/23 01:38	1311/6020B	CONT	
Lead	ND	25.0	50.0	ug/L	10	10/28/23 01:38	1311/6020B	CONT	
Mercury	ND	3.75	7.00	ug/L	10	10/28/23 01:38	1311/6020B	CONT	
Selenium	ND	50.0	100	ug/L	10	10/28/23 01:38	1311/6020B	CONT	
Silver	ND	50.0	100	ug/L	10	10/28/23 01:38	1311/6020B	CONT	

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 503-718-2323
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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3J1665 - 11 02 23 0938
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ANALYTICAL SAMPLE RESULTS

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-102423-2199 (A3J1665-01)				Matrix: Solid		Batch: 23J1042		CONT
Total Cyanide	5550	879	1760	ug/kg dry	5	10/26/23 17:31	D7511-12	

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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-102423-2199 (A3J1665-01)				Matrix: Solid		Batch: 23J1039		CONT
% Solids	27.8	---	1.00	%	1	10/27/23 06:20	EPA 8000D	

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ANALYTICAL SAMPLE RESULTS

TCLP Extraction by EPA 1311 (ZHE)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FC-102423-2199 (A3J1665-01)				Matrix: Solid		Batch: 23J1004		CONT
TCLP ZHE Extraction	PREP	---		N/A	1	10/25/23 15:21	EPA 1311 ZHE	
TCLP Extraction	PREP	---		N/A	1	10/26/23 15:45	EPA 1311	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J1037 - EPA 3546 (Fuels)						Solid						
Blank (23J1037-BLK1)						Prepared: 10/26/23 09:41 Analyzed: 10/27/23 05:44						
<u>NWTPH-Dx</u>												
Diesel	ND	10000	20000	ug/kg wet	1	---	---	---	---	---	---	
Oil	ND	20000	40000	ug/kg wet	1	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
LCS (23J1037-BS1)						Prepared: 10/26/23 09:41 Analyzed: 10/27/23 06:20						
<u>NWTPH-Dx</u>												
Diesel	109000	10000	20000	ug/kg wet	1	125000	---	87	38-132%	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 96 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
Duplicate (23J1037-DUP1)						Prepared: 10/26/23 09:41 Analyzed: 10/27/23 07:14						
CONT												
<u>QC Source Sample: FC-102423-2199 (A3J1665-01)</u>												
<u>NWTPH-Dx</u>												
Diesel	4020000	359000	718000	ug/kg dry	10	---	3600000	---	---	11	30%	F-13
Oil	ND	718000	1440000	ug/kg dry	10	---	ND	---	---	---	30%	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 86 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 10x</i>						<i>S-05</i>

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J1058 - EPA 5035A						Soil						
Blank (23J1058-BLK1)						Prepared: 10/26/23 08:19 Analyzed: 10/26/23 16:29						
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	2500	5000	ug/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 98 %	Limits: 50-150 %			Dilution: 1x						
1,4-Difluorobenzene (Sur)		99 %	50-150 %			"						
LCS (23J1058-BS2)						Prepared: 10/26/23 08:19 Analyzed: 10/26/23 15:08						
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	23700	2500	5000	ug/kg wet	50	25000	---	95	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 99 %	Limits: 50-150 %			Dilution: 1x						
1,4-Difluorobenzene (Sur)		96 %	50-150 %			"						
Duplicate (23J1058-DUP1)						Prepared: 10/18/23 10:40 Analyzed: 10/26/23 19:55						
<u>QC Source Sample: Non-SDG (A3J1690-01)</u>												
Gasoline Range Organics	ND	4600	4600	ug/kg dry	50	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 105 %	Limits: 50-150 %			Dilution: 1x						
1,4-Difluorobenzene (Sur)		98 %	50-150 %			"						
Duplicate (23J1058-DUP2)						Prepared: 10/25/23 14:54 Analyzed: 10/27/23 00:37						
<u>QC Source Sample: Non-SDG (A3J1672-06)</u>												
Gasoline Range Organics	569000	6800	13600	ug/kg dry	100	---	570000	---	---	0.2	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 117 %	Limits: 50-150 %			Dilution: 1x						
1,4-Difluorobenzene (Sur)		97 %	50-150 %			"						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J1058 - EPA 5035A						Soil						
Blank (23J1058-BLK1)			Prepared: 10/26/23 08:19 Analyzed: 10/26/23 16:29									
<u>5035A/8260D</u>												
Acetone	ND	1000	1000	ug/kg wet	50	---	---	---	---	---	---	ICV-02
Acrylonitrile	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Benzene	ND	5.00	10.0	ug/kg wet	50	---	---	---	---	---	---	
Bromobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Bromochloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromodichloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromoform	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Bromomethane	ND	500	500	ug/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
n-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Carbon disulfide	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Chloroethane	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chloromethane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromochloromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromomethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J1058 - EPA 5035A						Soil						
Blank (23J1058-BLK1)			Prepared: 10/26/23 08:19 Analyzed: 10/26/23 16:29									
1,2-Dichloropropane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Methylene chloride	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	100	200	ug/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Styrene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % Dilution: 1x

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J1058 - EPA 5035A						Soil						
Blank (23J1058-BLK1)						Prepared: 10/26/23 08:19 Analyzed: 10/26/23 16:29						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>101 %</i>		<i>79-120 %</i>		<i>"</i>						
LCS (23J1058-BS1)						Prepared: 10/26/23 08:19 Analyzed: 10/26/23 15:33						
5035A/8260D												
Acetone	1740	1000	1000	ug/kg wet	50	2000	---	87	80-120%	---	---	ICV-02
Acrylonitrile	936	50.0	100	ug/kg wet	50	1000	---	94	80-120%	---	---	
Benzene	976	5.00	10.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Bromobenzene	1000	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Bromochloromethane	934	25.0	50.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
Bromodichloromethane	989	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
Bromoform	1090	50.0	100	ug/kg wet	50	1000	---	109	80-120%	---	---	
Bromomethane	1040	500	500	ug/kg wet	50	1000	---	104	80-120%	---	---	
2-Butanone (MEK)	1860	250	500	ug/kg wet	50	2000	---	93	80-120%	---	---	
n-Butylbenzene	1120	25.0	50.0	ug/kg wet	50	1000	---	112	80-120%	---	---	
sec-Butylbenzene	964	25.0	50.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
tert-Butylbenzene	944	25.0	50.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
Carbon disulfide	902	250	500	ug/kg wet	50	1000	---	90	80-120%	---	---	
Carbon tetrachloride	1110	25.0	50.0	ug/kg wet	50	1000	---	111	80-120%	---	---	
Chlorobenzene	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
Chloroethane	1110	250	500	ug/kg wet	50	1000	---	111	80-120%	---	---	
Chloroform	958	25.0	50.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
Chloromethane	848	125	250	ug/kg wet	50	1000	---	85	80-120%	---	---	
2-Chlorotoluene	1070	25.0	50.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
4-Chlorotoluene	1070	25.0	50.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
Dibromochloromethane	1100	50.0	100	ug/kg wet	50	1000	---	110	80-120%	---	---	
1,2-Dibromo-3-chloropropane	956	125	250	ug/kg wet	50	1000	---	96	80-120%	---	---	
1,2-Dibromoethane (EDB)	1060	25.0	50.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
Dibromomethane	988	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
1,2-Dichlorobenzene	1070	12.5	25.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
1,3-Dichlorobenzene	1140	12.5	25.0	ug/kg wet	50	1000	---	114	80-120%	---	---	
1,4-Dichlorobenzene	1000	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Dichlorodifluoromethane	834	50.0	100	ug/kg wet	50	1000	---	83	80-120%	---	---	
1,1-Dichloroethane	958	12.5	25.0	ug/kg wet	50	1000	---	96	80-120%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J1058 - EPA 5035A						Soil						
LCS (23J1058-BS1)			Prepared: 10/26/23 08:19 Analyzed: 10/26/23 15:33									
1,2-Dichloroethane (EDC)	1000	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
1,1-Dichloroethene	962	12.5	25.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
cis-1,2-Dichloroethene	992	12.5	25.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
trans-1,2-Dichloroethene	954	12.5	25.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
1,2-Dichloropropane	963	12.5	25.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
1,3-Dichloropropane	991	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
2,2-Dichloropropane	1170	25.0	50.0	ug/kg wet	50	1000	---	117	80-120%	---	---	
1,1-Dichloropropene	1060	25.0	50.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
cis-1,3-Dichloropropene	1220	25.0	50.0	ug/kg wet	50	1000	---	122	80-120%	---	---	Q-56
trans-1,3-Dichloropropene	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Ethylbenzene	1100	12.5	25.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
Hexachlorobutadiene	1050	50.0	100	ug/kg wet	50	1000	---	105	80-120%	---	---	
2-Hexanone	1610	250	500	ug/kg wet	50	2000	---	81	80-120%	---	---	
Isopropylbenzene	982	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
4-Isopropyltoluene	971	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
Methylene chloride	960	250	500	ug/kg wet	50	1000	---	96	80-120%	---	---	
4-Methyl-2-pentanone (MIBK)	1880	250	500	ug/kg wet	50	2000	---	94	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	1030	25.0	50.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
Naphthalene	841	100	200	ug/kg wet	50	1000	---	84	80-120%	---	---	
n-Propylbenzene	1030	12.5	25.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
Styrene	990	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
1,1,1,2-Tetrachloroethane	1090	12.5	25.0	ug/kg wet	50	1000	---	109	80-120%	---	---	
1,1,2,2-Tetrachloroethane	959	25.0	50.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
Tetrachloroethene (PCE)	1100	12.5	25.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
Toluene	986	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
1,2,3-Trichlorobenzene	1080	125	250	ug/kg wet	50	1000	---	108	80-120%	---	---	
1,2,4-Trichlorobenzene	1030	125	250	ug/kg wet	50	1000	---	103	80-120%	---	---	
1,1,1-Trichloroethane	1050	12.5	25.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
1,1,2-Trichloroethane	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Trichloroethene (TCE)	990	12.5	25.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
Trichlorofluoromethane	1210	50.0	100	ug/kg wet	50	1000	---	121	80-120%	---	---	Q-56
1,2,3-Trichloropropane	1000	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
1,2,4-Trimethylbenzene	991	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
1,3,5-Trimethylbenzene	978	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	

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6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3J1665 - 11 02 23 0938
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J1058 - EPA 5035A						Soil						
LCS (23J1058-BS1)						Prepared: 10/26/23 08:19 Analyzed: 10/26/23 15:33						
Vinyl chloride	814	12.5	25.0	ug/kg wet	50	1000	---	81	80-120%	---	---	
m,p-Xylene	2020	25.0	50.0	ug/kg wet	50	2000	---	101	80-120%	---	---	
o-Xylene	946	12.5	25.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 96%</i>		<i>Limits: 80-120%</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>97%</i>		<i>80-120%</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>98%</i>		<i>79-120%</i>		<i>"</i>						

Duplicate (23J1058-DUP1)						Prepared: 10/18/23 10:40 Analyzed: 10/26/23 19:55						
QC Source Sample: Non-SDG (A3J1690-01)												
Acetone	ND	920	920	ug/kg dry	50	---	ND	---	---	---	30%	ICV-02
Acrylonitrile	ND	46.0	92.0	ug/kg dry	50	---	ND	---	---	---	30%	
Benzene	ND	4.60	9.20	ug/kg dry	50	---	ND	---	---	---	30%	
Bromobenzene	ND	11.5	23.0	ug/kg dry	50	---	ND	---	---	---	30%	
Bromochloromethane	ND	23.0	46.0	ug/kg dry	50	---	ND	---	---	---	30%	
Bromodichloromethane	ND	23.0	46.0	ug/kg dry	50	---	ND	---	---	---	30%	
Bromoform	ND	46.0	92.0	ug/kg dry	50	---	ND	---	---	---	30%	
Bromomethane	ND	460	460	ug/kg dry	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	230	460	ug/kg dry	50	---	ND	---	---	---	30%	
n-Butylbenzene	ND	23.0	46.0	ug/kg dry	50	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	23.0	46.0	ug/kg dry	50	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	23.0	46.0	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon disulfide	ND	230	460	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	23.0	46.0	ug/kg dry	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	11.5	23.0	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroethane	ND	230	460	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroform	ND	23.0	46.0	ug/kg dry	50	---	ND	---	---	---	30%	
Chloromethane	ND	115	230	ug/kg dry	50	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	23.0	46.0	ug/kg dry	50	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	23.0	46.0	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromochloromethane	ND	46.0	92.0	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	115	230	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	23.0	46.0	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromomethane	ND	23.0	46.0	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	11.5	23.0	ug/kg dry	50	---	ND	---	---	---	30%	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3J1665 - 11 02 23 0938
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J1058 - EPA 5035A						Soil						
Duplicate (23J1058-DUP1)			Prepared: 10/18/23 10:40 Analyzed: 10/26/23 19:55									
QC Source Sample: Non-SDG (A3J1690-01)												
1,3-Dichlorobenzene	ND	11.5	23.0	ug/kg dry	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	11.5	23.0	ug/kg dry	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	46.0	92.0	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	11.5	23.0	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	11.5	23.0	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	11.5	23.0	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	11.5	23.0	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	11.5	23.0	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	11.5	23.0	ug/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	23.0	46.0	ug/kg dry	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	23.0	46.0	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	23.0	46.0	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	23.0	46.0	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	23.0	46.0	ug/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	11.5	23.0	ug/kg dry	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	46.0	92.0	ug/kg dry	50	---	ND	---	---	---	30%	
2-Hexanone	ND	230	460	ug/kg dry	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	23.0	46.0	ug/kg dry	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	23.0	46.0	ug/kg dry	50	---	ND	---	---	---	30%	
Methylene chloride	ND	230	460	ug/kg dry	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MIBK)	ND	230	460	ug/kg dry	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	23.0	46.0	ug/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	92.0	184	ug/kg dry	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	11.5	23.0	ug/kg dry	50	---	ND	---	---	---	30%	
Styrene	ND	23.0	46.0	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	11.5	23.0	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	23.0	46.0	ug/kg dry	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	70.4	11.5	23.0	ug/kg dry	50	---	69.5	---	---	1	30%	
Toluene	ND	23.0	46.0	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	115	230	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	115	230	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	11.5	23.0	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	11.5	23.0	ug/kg dry	50	---	ND	---	---	---	30%	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3J1665 - 11 02 23 0938
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J1058 - EPA 5035A												
Soil												
Duplicate (23J1058-DUP1)												
Prepared: 10/18/23 10:40 Analyzed: 10/26/23 19:55												
QC Source Sample: Non-SDG (A3J1690-01)												
Trichloroethene (TCE)	ND	11.5	23.0	ug/kg dry	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	46.0	92.0	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	23.0	46.0	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	23.0	46.0	ug/kg dry	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	23.0	46.0	ug/kg dry	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	11.5	23.0	ug/kg dry	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	23.0	46.0	ug/kg dry	50	---	ND	---	---	---	30%	
o-Xylene	ND	11.5	23.0	ug/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>95 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>105 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (23J1058-DUP2)												
Prepared: 10/25/23 14:54 Analyzed: 10/27/23 00:37												
QC Source Sample: Non-SDG (A3J1672-06)												
Acetone	ND	2720	2720	ug/kg dry	100	---	ND	---	---	---	30%	ICV-02
Acrylonitrile	ND	136	272	ug/kg dry	100	---	ND	---	---	---	30%	
Benzene	ND	13.6	27.2	ug/kg dry	100	---	ND	---	---	---	30%	
Bromobenzene	ND	34.0	68.0	ug/kg dry	100	---	ND	---	---	---	30%	
Bromochloromethane	ND	68.0	136	ug/kg dry	100	---	ND	---	---	---	30%	
Bromodichloromethane	ND	68.0	136	ug/kg dry	100	---	ND	---	---	---	30%	
Bromoform	ND	136	272	ug/kg dry	100	---	ND	---	---	---	30%	
Bromomethane	ND	1360	1360	ug/kg dry	100	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	680	1360	ug/kg dry	100	---	ND	---	---	---	30%	
n-Butylbenzene	674	68.0	136	ug/kg dry	100	---	656	---	---	3	30%	
sec-Butylbenzene	996	68.0	136	ug/kg dry	100	---	925	---	---	7	30%	
tert-Butylbenzene	ND	272	272	ug/kg dry	100	---	ND	---	---	---	30%	R-02
Carbon disulfide	ND	680	1360	ug/kg dry	100	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	68.0	136	ug/kg dry	100	---	ND	---	---	---	30%	
Chlorobenzene	ND	34.0	68.0	ug/kg dry	100	---	ND	---	---	---	30%	
Chloroethane	ND	680	1360	ug/kg dry	100	---	ND	---	---	---	30%	
Chloroform	ND	68.0	136	ug/kg dry	100	---	ND	---	---	---	30%	
Chloromethane	ND	340	680	ug/kg dry	100	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	272	272	ug/kg dry	100	---	ND	---	---	---	30%	R-02

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J1058 - EPA 5035A						Soil						
Duplicate (23J1058-DUP2)						Prepared: 10/25/23 14:54 Analyzed: 10/27/23 00:37						V-16
QC Source Sample: Non-SDG (A3J1672-06)												
4-Chlorotoluene	ND	272	272	ug/kg dry	100	---	ND	---	---	---	30%	R-02
Dibromochloromethane	ND	136	272	ug/kg dry	100	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	340	680	ug/kg dry	100	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	68.0	136	ug/kg dry	100	---	ND	---	---	---	30%	
Dibromomethane	ND	68.0	136	ug/kg dry	100	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	34.0	68.0	ug/kg dry	100	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	34.0	68.0	ug/kg dry	100	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	34.0	68.0	ug/kg dry	100	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	136	272	ug/kg dry	100	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	34.0	68.0	ug/kg dry	100	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	34.0	68.0	ug/kg dry	100	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	34.0	68.0	ug/kg dry	100	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	34.0	68.0	ug/kg dry	100	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	34.0	68.0	ug/kg dry	100	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	34.0	68.0	ug/kg dry	100	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	68.0	136	ug/kg dry	100	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	68.0	136	ug/kg dry	100	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	68.0	136	ug/kg dry	100	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	68.0	136	ug/kg dry	100	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	68.0	136	ug/kg dry	100	---	ND	---	---	---	30%	
Ethylbenzene	ND	34.0	68.0	ug/kg dry	100	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	136	272	ug/kg dry	100	---	ND	---	---	---	30%	
2-Hexanone	ND	1360	1360	ug/kg dry	100	---	ND	---	---	---	30%	
Isopropylbenzene	ND	68.0	136	ug/kg dry	100	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	68.0	136	ug/kg dry	100	---	ND	---	---	---	30%	
Methylene chloride	ND	680	1360	ug/kg dry	100	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MIBK)	ND	1360	1360	ug/kg dry	100	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	68.0	136	ug/kg dry	100	---	ND	---	---	---	30%	
Naphthalene	ND	544	544	ug/kg dry	100	---	ND	---	---	---	30%	R-02
n-Propylbenzene	ND	34.0	68.0	ug/kg dry	100	---	ND	---	---	---	30%	
Styrene	ND	68.0	136	ug/kg dry	100	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	34.0	68.0	ug/kg dry	100	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	272	272	ug/kg dry	100	---	ND	---	---	---	30%	R-02

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3J1665 - 11 02 23 0938
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J1058 - EPA 5035A												
Soil												
Duplicate (23J1058-DUP2)												
						Prepared: 10/25/23 14:54 Analyzed: 10/27/23 00:37						V-16
QC Source Sample: Non-SDG (A3J1672-06)												
Tetrachloroethene (PCE)	ND	34.0	68.0	ug/kg dry	100	---	ND	---	---	---	30%	
Toluene	ND	68.0	136	ug/kg dry	100	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	340	680	ug/kg dry	100	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	340	680	ug/kg dry	100	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	34.0	68.0	ug/kg dry	100	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	34.0	68.0	ug/kg dry	100	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	34.0	68.0	ug/kg dry	100	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	136	272	ug/kg dry	100	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	544	544	ug/kg dry	100	---	ND	---	---	---	30%	R-02
1,2,4-Trimethylbenzene	ND	68.0	136	ug/kg dry	100	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	68.0	136	ug/kg dry	100	---	ND	---	---	---	30%	
Vinyl chloride	ND	34.0	68.0	ug/kg dry	100	---	ND	---	---	---	30%	
m,p-Xylene	ND	68.0	136	ug/kg dry	100	---	ND	---	---	---	30%	
o-Xylene	ND	68.0	68.0	ug/kg dry	100	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>92 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>109 %</i>		<i>79-120 %</i>		<i>"</i>						

Matrix Spike (23J1058-MS1)												
						Prepared: 10/25/23 13:00 Analyzed: 10/26/23 23:20						
QC Source Sample: Non-SDG (A3J1684-03)												
5035A/8260D												
Acetone	1950	1020	1020	ug/kg dry	50	2050	ND	95	36-164%	---	---	ICV-02
Acrylonitrile	1030	51.2	102	ug/kg dry	50	1020	ND	101	65-134%	---	---	
Benzene	1090	5.12	10.2	ug/kg dry	50	1020	ND	106	77-121%	---	---	
Bromobenzene	1080	12.8	25.6	ug/kg dry	50	1020	ND	105	78-121%	---	---	
Bromochloromethane	1040	25.6	51.2	ug/kg dry	50	1020	ND	102	78-125%	---	---	
Bromodichloromethane	1040	25.6	51.2	ug/kg dry	50	1020	ND	102	75-127%	---	---	
Bromoform	1100	51.2	102	ug/kg dry	50	1020	ND	107	67-132%	---	---	
Bromomethane	1180	512	512	ug/kg dry	50	1020	ND	115	53-143%	---	---	
2-Butanone (MEK)	2110	256	512	ug/kg dry	50	2050	ND	103	51-148%	---	---	
n-Butylbenzene	1240	25.6	51.2	ug/kg dry	50	1020	ND	121	70-128%	---	---	
sec-Butylbenzene	1090	25.6	51.2	ug/kg dry	50	1020	ND	106	73-126%	---	---	
tert-Butylbenzene	1070	25.6	51.2	ug/kg dry	50	1020	ND	104	73-125%	---	---	

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3J1665 - 11 02 23 0938
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J1058 - EPA 5035A						Soil						
Matrix Spike (23J1058-MS1)						Prepared: 10/25/23 13:00 Analyzed: 10/26/23 23:20						
QC Source Sample: Non-SDG (A3J1684-03)												
Carbon disulfide	1010	256	512	ug/kg dry	50	1020	ND	99	63-132%	---	---	
Carbon tetrachloride	1180	25.6	51.2	ug/kg dry	50	1020	ND	115	70-135%	---	---	
Chlorobenzene	1060	12.8	25.6	ug/kg dry	50	1020	ND	104	79-120%	---	---	
Chloroethane	1080	256	512	ug/kg dry	50	1020	ND	106	59-139%	---	---	
Chloroform	1020	25.6	51.2	ug/kg dry	50	1020	ND	100	78-123%	---	---	
Chloromethane	927	128	256	ug/kg dry	50	1020	ND	91	50-136%	---	---	
2-Chlorotoluene	1180	25.6	51.2	ug/kg dry	50	1020	ND	115	75-122%	---	---	
4-Chlorotoluene	1170	25.6	51.2	ug/kg dry	50	1020	ND	114	72-124%	---	---	
Dibromochloromethane	1100	51.2	102	ug/kg dry	50	1020	ND	108	74-126%	---	---	
1,2-Dibromo-3-chloropropane	959	128	256	ug/kg dry	50	1020	ND	94	61-132%	---	---	
1,2-Dibromoethane (EDB)	1140	25.6	51.2	ug/kg dry	50	1020	ND	111	78-122%	---	---	
Dibromomethane	1060	25.6	51.2	ug/kg dry	50	1020	ND	103	78-125%	---	---	
1,2-Dichlorobenzene	1100	12.8	25.6	ug/kg dry	50	1020	ND	107	78-121%	---	---	
1,3-Dichlorobenzene	1200	12.8	25.6	ug/kg dry	50	1020	ND	118	77-121%	---	---	
1,4-Dichlorobenzene	1050	12.8	25.6	ug/kg dry	50	1020	ND	103	75-120%	---	---	
Dichlorodifluoromethane	1130	51.2	102	ug/kg dry	50	1020	ND	111	29-149%	---	---	
1,1-Dichloroethane	1050	12.8	25.6	ug/kg dry	50	1020	ND	102	76-125%	---	---	
1,2-Dichloroethane (EDC)	1030	12.8	25.6	ug/kg dry	50	1020	ND	100	73-128%	---	---	
1,1-Dichloroethene	1070	12.8	25.6	ug/kg dry	50	1020	ND	104	70-131%	---	---	
cis-1,2-Dichloroethene	1120	12.8	25.6	ug/kg dry	50	1020	ND	109	77-123%	---	---	
trans-1,2-Dichloroethene	1060	12.8	25.6	ug/kg dry	50	1020	ND	104	74-125%	---	---	
1,2-Dichloropropane	1070	12.8	25.6	ug/kg dry	50	1020	ND	105	76-123%	---	---	
1,3-Dichloropropane	1040	25.6	51.2	ug/kg dry	50	1020	ND	102	77-121%	---	---	
2,2-Dichloropropane	1110	25.6	51.2	ug/kg dry	50	1020	ND	109	67-133%	---	---	
1,1-Dichloropropene	1230	25.6	51.2	ug/kg dry	50	1020	ND	120	76-125%	---	---	
cis-1,3-Dichloropropene	1240	25.6	51.2	ug/kg dry	50	1020	ND	121	74-126%	---	---	Q-54a
trans-1,3-Dichloropropene	1030	25.6	51.2	ug/kg dry	50	1020	ND	100	71-130%	---	---	
Ethylbenzene	1170	12.8	25.6	ug/kg dry	50	1020	ND	114	76-122%	---	---	
Hexachlorobutadiene	1160	51.2	102	ug/kg dry	50	1020	ND	113	61-135%	---	---	
2-Hexanone	1750	256	512	ug/kg dry	50	2050	ND	85	53-145%	---	---	
Isopropylbenzene	1090	25.6	51.2	ug/kg dry	50	1020	ND	107	68-134%	---	---	
4-Isopropyltoluene	1080	25.6	51.2	ug/kg dry	50	1020	ND	105	73-127%	---	---	
Methylene chloride	1030	256	512	ug/kg dry	50	1020	ND	101	70-128%	---	---	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3J1665 - 11 02 23 0938
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J1058 - EPA 5035A						Soil						
Matrix Spike (23J1058-MS1)			Prepared: 10/25/23 13:00 Analyzed: 10/26/23 23:20									
QC Source Sample: Non-SDG (A3J1684-03)												
4-Methyl-2-pentanone (MiBK)	2010	256	512	ug/kg dry	50	2050	ND	98	65-135%	---	---	
Methyl tert-butyl ether (MTBE)	1120	25.6	51.2	ug/kg dry	50	1020	ND	109	73-125%	---	---	
Naphthalene	993	102	205	ug/kg dry	50	1020	ND	97	62-129%	---	---	
n-Propylbenzene	1140	12.8	25.6	ug/kg dry	50	1020	ND	111	73-125%	---	---	
Styrene	1070	25.6	51.2	ug/kg dry	50	1020	ND	104	76-124%	---	---	
1,1,1,2-Tetrachloroethane	1080	12.8	25.6	ug/kg dry	50	1020	ND	105	78-125%	---	---	
1,1,2,2-Tetrachloroethane	968	25.6	51.2	ug/kg dry	50	1020	ND	95	70-124%	---	---	
Tetrachloroethene (PCE)	1180	12.8	25.6	ug/kg dry	50	1020	ND	116	73-128%	---	---	
Toluene	1040	25.6	51.2	ug/kg dry	50	1020	ND	102	77-121%	---	---	
1,2,3-Trichlorobenzene	1150	128	256	ug/kg dry	50	1020	ND	112	66-130%	---	---	
1,2,4-Trichlorobenzene	1160	128	256	ug/kg dry	50	1020	ND	113	67-129%	---	---	
1,1,1-Trichloroethane	1120	12.8	25.6	ug/kg dry	50	1020	ND	109	73-130%	---	---	
1,1,2-Trichloroethane	1050	12.8	25.6	ug/kg dry	50	1020	ND	103	78-121%	---	---	
Trichloroethene (TCE)	1140	12.8	25.6	ug/kg dry	50	1020	ND	112	77-123%	---	---	
Trichlorofluoromethane	1510	51.2	102	ug/kg dry	50	1020	ND	148	62-140%	---	---	Q-54
1,2,3-Trichloropropane	1030	25.6	51.2	ug/kg dry	50	1020	ND	101	73-125%	---	---	
1,2,4-Trimethylbenzene	1060	25.6	51.2	ug/kg dry	50	1020	ND	104	75-123%	---	---	
1,3,5-Trimethylbenzene	1070	25.6	51.2	ug/kg dry	50	1020	ND	105	73-124%	---	---	
Vinyl chloride	1010	12.8	25.6	ug/kg dry	50	1020	ND	99	56-135%	---	---	
m,p-Xylene	2140	25.6	51.2	ug/kg dry	50	2050	ND	105	77-124%	---	---	
o-Xylene	1040	12.8	25.6	ug/kg dry	50	1020	ND	102	77-123%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>95 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>103 %</i>		<i>79-120 %</i>		<i>"</i>						

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3J1665 - 11 02 23 0938
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QUALITY CONTROL (QC) SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J1123 - EPA 1311/5030C TCLP Volatiles						Water						
Blank (23J1123-BLK1)						Prepared: 10/29/23 13:35 Analyzed: 10/30/23 04:09						TCLP
<u>1311/8260D</u>												
Benzene	10.0	5.00	10.0	ug/L	50	---	---	---	---	---	---	B
2-Butanone (MEK)	ND	250	500	ug/L	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Trichloroethene (TCE)	14.0	12.5	25.0	ug/L	50	---	---	---	---	---	---	B-02, J
Vinyl chloride	ND	25.0	25.0	ug/L	50	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						

LCS (23J1123-BS1)						Prepared: 10/29/23 13:35 Analyzed: 10/30/23 03:15						TCLP
<u>1311/8260D</u>												
Benzene	954	5.00	10.0	ug/L	50	1000	---	95	80-120%	---	---	B
2-Butanone (MEK)	1760	250	500	ug/L	50	2000	---	88	80-120%	---	---	
Carbon tetrachloride	1240	25.0	50.0	ug/L	50	1000	---	124	80-120%	---	---	Q-56
Chlorobenzene	969	12.5	25.0	ug/L	50	1000	---	97	80-120%	---	---	
Chloroform	1030	25.0	50.0	ug/L	50	1000	---	103	80-120%	---	---	
1,4-Dichlorobenzene	914	12.5	25.0	ug/L	50	1000	---	91	80-120%	---	---	
1,1-Dichloroethene	1110	12.5	25.0	ug/L	50	1000	---	111	80-120%	---	---	
1,2-Dichloroethane (EDC)	1070	12.5	25.0	ug/L	50	1000	---	107	80-120%	---	---	
Tetrachloroethene (PCE)	1000	12.5	25.0	ug/L	50	1000	---	100	80-120%	---	---	
Trichloroethene (TCE)	904	12.5	25.0	ug/L	50	1000	---	90	80-120%	---	---	B-02
Vinyl chloride	790	25.0	25.0	ug/L	50	1000	---	79	80-120%	---	---	Q-55
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 93 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>80-120 %</i>		<i>"</i>						

Duplicate (23J1123-DUPI)						Prepared: 10/29/23 13:35 Analyzed: 10/30/23 05:04					
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QUALITY CONTROL (QC) SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J1123 - EPA 1311/5030C TCLP Volatiles						Water						
Duplicate (23J1123-DUP1)			Prepared: 10/29/23 13:35 Analyzed: 10/30/23 05:04									
QC Source Sample: Non-SDG (A3J1604-01)												
Benzene	508	5.00	10.0	ug/L	50	---	506	---	---	0.5	30%	B
2-Butanone (MEK)	ND	250	500	ug/L	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Chloroform	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	25.0	25.0	ug/L	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	25.0	25.0	ug/L	50	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 93%</i>		<i>Limits: 80-120%</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100%</i>		<i>80-120%</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97%</i>		<i>80-120%</i>		<i>"</i>						

Matrix Spike (23J1123-MS1)						Prepared: 10/29/23 13:35 Analyzed: 10/30/23 06:26						
QC Source Sample: Non-SDG (A3J1666-01)												
1311/8260D												
Benzene	972	5.00	10.0	ug/L	50	1000	ND	97	79-120%	---	---	B
2-Butanone (MEK)	1670	250	500	ug/L	50	2000	ND	84	56-143%	---	---	
Carbon tetrachloride	1310	25.0	50.0	ug/L	50	1000	ND	131	72-136%	---	---	Q-54b
Chlorobenzene	996	12.5	25.0	ug/L	50	1000	ND	100	80-120%	---	---	
Chloroform	1050	25.0	50.0	ug/L	50	1000	ND	105	79-124%	---	---	
1,4-Dichlorobenzene	950	12.5	25.0	ug/L	50	1000	ND	95	79-120%	---	---	
1,1-Dichloroethene	1160	12.5	25.0	ug/L	50	1000	ND	116	71-131%	---	---	
1,2-Dichloroethane (EDC)	1060	12.5	25.0	ug/L	50	1000	ND	106	73-128%	---	---	
Tetrachloroethene (PCE)	1080	12.5	25.0	ug/L	50	1000	ND	108	74-129%	---	---	
Trichloroethene (TCE)	944	12.5	25.0	ug/L	50	1000	ND	94	79-123%	---	---	B-02
Vinyl chloride	792	25.0	25.0	ug/L	50	1000	ND	79	58-137%	---	---	Q-54c
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 93%</i>		<i>Limits: 80-120%</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>97%</i>		<i>80-120%</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>95%</i>		<i>80-120%</i>		<i>"</i>						

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3J1665 - 11 02 23 0938
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J1038 - EPA 3546						Solid						
Blank (23J1038-BLK1)			Prepared: 10/26/23 09:42 Analyzed: 10/26/23 17:43									
EPA 8270E												
Acenaphthene	4.53	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	B
Acenaphthylene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Chrysene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Fluoranthene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Fluorene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
1-Methylnaphthalene	8.44	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	B
2-Methylnaphthalene	17.0	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	B
Naphthalene	143	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	B
Phenanthrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Pyrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Carbazole	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Dibenzofuran	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
2-Chlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
2-Methylphenol	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Nitrophenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
4-Nitrophenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Phenol	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3J1665 - 11 02 23 0938
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J1038 - EPA 3546						Solid						
Blank (23J1038-BLK1)			Prepared: 10/26/23 09:42 Analyzed: 10/26/23 17:43									
2,3,5,6-Tetrachlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	20.0	40.0	ug/kg wet	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Diethylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Dimethylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2,2'-Oxybis(1-Chloropropane)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Hexachloroethane	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Aniline	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
4-Chloroaniline	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
3-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
4-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
Nitrobenzene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Benzoic acid	ND	167	333	ug/kg wet	1	---	---	---	---	---	---	
Benzyl alcohol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Isophorone	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3J1665 - 11 02 23 0938
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J1038 - EPA 3546						Solid						
Blank (23J1038-BLK1)			Prepared: 10/26/23 09:42 Analyzed: 10/26/23 17:43									
Azobenzene (1,2-DPH)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Ethylhexyl) adipate	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	Q-52
1,2-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
Pyridine	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 106 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 1x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>91 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>105 %</i>		<i>33-122 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>91 %</i>		<i>54-127 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>88 %</i>		<i>35-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>112 %</i>		<i>39-132 %</i>		<i>"</i>						
LCS (23J1038-BS1)						Prepared: 10/26/23 09:42 Analyzed: 10/26/23 18:17						Q-18
EPA 8270E												
Acenaphthene	499	5.32	10.7	ug/kg wet	4	533	---	94	40-123%	---	---	B
Acenaphthylene	519	5.32	10.7	ug/kg wet	4	533	---	97	32-132%	---	---	
Anthracene	498	5.32	10.7	ug/kg wet	4	533	---	93	47-123%	---	---	
Benz(a)anthracene	484	5.32	10.7	ug/kg wet	4	533	---	91	49-126%	---	---	
Benzo(a)pyrene	554	8.00	16.0	ug/kg wet	4	533	---	104	45-129%	---	---	
Benzo(b)fluoranthene	535	8.00	16.0	ug/kg wet	4	533	---	100	45-132%	---	---	
Benzo(k)fluoranthene	553	8.00	16.0	ug/kg wet	4	533	---	104	47-132%	---	---	
Benzo(g,h,i)perylene	506	5.32	10.7	ug/kg wet	4	533	---	95	43-134%	---	---	
Chrysene	481	5.32	10.7	ug/kg wet	4	533	---	90	50-124%	---	---	
Dibenz(a,h)anthracene	511	5.32	10.7	ug/kg wet	4	533	---	96	45-134%	---	---	
Fluoranthene	514	5.32	10.7	ug/kg wet	4	533	---	96	50-127%	---	---	
Fluorene	480	5.32	10.7	ug/kg wet	4	533	---	90	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	466	5.32	10.7	ug/kg wet	4	533	---	87	45-133%	---	---	
1-Methylnaphthalene	555	10.7	21.3	ug/kg wet	4	533	---	104	40-120%	---	---	B
2-Methylnaphthalene	598	10.7	21.3	ug/kg wet	4	533	---	112	38-122%	---	---	B

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23J1038 - EPA 3546							Solid						
LCS (23J1038-BS1)							Prepared: 10/26/23 09:42 Analyzed: 10/26/23 18:17						Q-18
Naphthalene	767	10.7	21.3	ug/kg wet	4	533	---	144	35-123%	---	---	B, Q-29	
Phenanthrene	476	5.32	10.7	ug/kg wet	4	533	---	89	50-121%	---	---		
Pyrene	512	5.32	10.7	ug/kg wet	4	533	---	96	47-127%	---	---		
Carbazole	504	8.00	16.0	ug/kg wet	4	533	---	95	50-123%	---	---		
Dibenzofuran	533	5.32	10.7	ug/kg wet	4	533	---	100	44-120%	---	---		
2-Chlorophenol	574	26.7	53.2	ug/kg wet	4	533	---	108	34-121%	---	---		
4-Chloro-3-methylphenol	554	53.2	107	ug/kg wet	4	533	---	104	45-122%	---	---		
2,4-Dichlorophenol	657	26.7	53.2	ug/kg wet	4	533	---	123	40-122%	---	---	Q-29, Q-41	
2,4-Dimethylphenol	705	26.7	53.2	ug/kg wet	4	533	---	132	30-127%	---	---	Q-29, Q-41	
2,4-Dinitrophenol	665	133	267	ug/kg wet	4	533	---	125	10-137%	---	---	Q-41	
4,6-Dinitro-2-methylphenol	575	133	267	ug/kg wet	4	533	---	108	29-132%	---	---	Q-41	
2-Methylphenol	702	13.3	26.7	ug/kg wet	4	533	---	132	32-122%	---	---	Q-29, Q-41	
3+4-Methylphenol(s)	723	13.3	26.7	ug/kg wet	4	533	---	135	34-120%	---	---	Q-29	
2-Nitrophenol	634	53.2	107	ug/kg wet	4	533	---	119	36-123%	---	---	Q-41	
4-Nitrophenol	568	53.2	107	ug/kg wet	4	533	---	107	30-132%	---	---		
Pentachlorophenol (PCP)	499	53.2	107	ug/kg wet	4	533	---	94	25-133%	---	---		
Phenol	693	10.7	21.3	ug/kg wet	4	533	---	130	34-121%	---	---	Q-29	
2,3,4,6-Tetrachlorophenol	519	26.7	53.2	ug/kg wet	4	533	---	97	44-125%	---	---		
2,3,5,6-Tetrachlorophenol	544	26.7	53.2	ug/kg wet	4	533	---	102	40-120%	---	---		
2,4,5-Trichlorophenol	598	26.7	53.2	ug/kg wet	4	533	---	112	41-124%	---	---		
2,4,6-Trichlorophenol	593	26.7	53.2	ug/kg wet	4	533	---	111	39-126%	---	---		
Bis(2-ethylhexyl)phthalate	518	80.0	160	ug/kg wet	4	533	---	97	51-133%	---	---		
Butyl benzyl phthalate	525	53.2	107	ug/kg wet	4	533	---	98	48-132%	---	---		
Diethylphthalate	417	53.2	107	ug/kg wet	4	533	---	78	50-124%	---	---		
Dimethylphthalate	506	53.2	107	ug/kg wet	4	533	---	95	48-124%	---	---		
Di-n-butylphthalate	489	53.2	107	ug/kg wet	4	533	---	92	51-128%	---	---		
Di-n-octyl phthalate	571	53.2	107	ug/kg wet	4	533	---	107	45-140%	---	---		
N-Nitrosodimethylamine	385	13.3	26.7	ug/kg wet	4	533	---	72	23-120%	---	---		
N-Nitroso-di-n-propylamine	543	13.3	26.7	ug/kg wet	4	533	---	102	36-120%	---	---		
N-Nitrosodiphenylamine	526	13.3	26.7	ug/kg wet	4	533	---	99	38-127%	---	---		
Bis(2-Chloroethoxy) methane	526	13.3	26.7	ug/kg wet	4	533	---	99	36-121%	---	---		
Bis(2-Chloroethyl) ether	457	13.3	26.7	ug/kg wet	4	533	---	86	31-120%	---	---		
2,2'-Oxybis(1-Chloropropane)	450	13.3	26.7	ug/kg wet	4	533	---	84	39-120%	---	---		
Hexachlorobenzene	511	5.32	10.7	ug/kg wet	4	533	---	96	45-122%	---	---		

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Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J1038 - EPA 3546						Solid						
LCS (23J1038-BS1)						Prepared: 10/26/23 09:42 Analyzed: 10/26/23 18:17						Q-18
Hexachlorobutadiene	464	13.3	26.7	ug/kg wet	4	533	---	87	32-123%	---	---	
Hexachlorocyclopentadiene	642	26.7	53.2	ug/kg wet	4	533	---	120	10-140%	---	---	Q-41
Hexachloroethane	482	13.3	26.7	ug/kg wet	4	533	---	90	28-120%	---	---	
2-Chloronaphthalene	525	5.32	10.7	ug/kg wet	4	533	---	98	41-120%	---	---	
1,2,4-Trichlorobenzene	500	13.3	26.7	ug/kg wet	4	533	---	94	34-120%	---	---	
4-Bromophenyl phenyl ether	527	13.3	26.7	ug/kg wet	4	533	---	99	46-124%	---	---	
4-Chlorophenyl phenyl ether	510	13.3	26.7	ug/kg wet	4	533	---	96	45-121%	---	---	
Aniline	357	26.7	53.2	ug/kg wet	4	533	---	67	10-120%	---	---	Q-31
4-Chloroaniline	432	13.3	26.7	ug/kg wet	4	533	---	81	17-120%	---	---	
2-Nitroaniline	525	107	213	ug/kg wet	4	533	---	99	44-127%	---	---	
3-Nitroaniline	468	107	213	ug/kg wet	4	533	---	88	33-120%	---	---	
4-Nitroaniline	534	107	213	ug/kg wet	4	533	---	100	51-125%	---	---	
Nitrobenzene	575	53.2	107	ug/kg wet	4	533	---	108	34-122%	---	---	
2,4-Dinitrotoluene	483	53.2	107	ug/kg wet	4	533	---	91	48-126%	---	---	
2,6-Dinitrotoluene	497	53.2	107	ug/kg wet	4	533	---	93	46-124%	---	---	
Benzoic acid	1100	668	668	ug/kg wet	4	1070	---	103	10-140%	---	---	Q-41
Benzyl alcohol	689	26.7	53.2	ug/kg wet	4	533	---	129	29-122%	---	---	Q-29
Isophorone	471	13.3	26.7	ug/kg wet	4	533	---	88	30-122%	---	---	
Azobenzene (1,2-DPH)	478	13.3	26.7	ug/kg wet	4	533	---	90	39-125%	---	---	
Bis(2-Ethylhexyl) adipate	506	133	267	ug/kg wet	4	533	---	95	61-121%	---	---	
3,3'-Dichlorobenzidine	1990	107	213	ug/kg wet	4	1070	---	187	22-121%	---	---	Q-29, Q-31, Q-52
1,2-Dinitrobenzene	538	133	267	ug/kg wet	4	533	---	101	44-120%	---	---	
1,3-Dinitrobenzene	513	133	267	ug/kg wet	4	533	---	96	43-127%	---	---	
1,4-Dinitrobenzene	547	133	267	ug/kg wet	4	533	---	103	37-132%	---	---	
Pyridine	375	26.7	53.2	ug/kg wet	4	533	---	70	10-120%	---	---	
1,2-Dichlorobenzene	488	13.3	26.7	ug/kg wet	4	533	---	91	33-120%	---	---	
1,3-Dichlorobenzene	464	13.3	26.7	ug/kg wet	4	533	---	87	30-120%	---	---	
1,4-Dichlorobenzene	470	13.3	26.7	ug/kg wet	4	533	---	88	31-120%	---	---	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 112 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 4x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>99 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>121 %</i>		<i>33-122 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>104 %</i>		<i>54-127 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>93 %</i>		<i>35-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>114 %</i>		<i>39-132 %</i>		<i>"</i>						

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3J1665 - 11 02 23 0938
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23J1038 - EPA 3546							Solid						
Duplicate (23J1038-DUP1)			Prepared: 10/26/23 09:42 Analyzed: 10/27/23 13:32						CONT				
QC Source Sample: FC-102423-2199 (A3J1665-01)													
EPA 8270E													
Acenaphthene	37000	476	955	ug/kg dry	100	---	37500	---	---	1	30%	B	
Acenaphthylene	ND	3650	3650	ug/kg dry	100	---	ND	---	---	---	30%	R-02	
Anthracene	32500	476	955	ug/kg dry	100	---	32000	---	---	2	30%		
Benz(a)anthracene	19200	476	955	ug/kg dry	100	---	17900	---	---	7	30%		
Benzo(a)pyrene	21800	716	1430	ug/kg dry	100	---	18900	---	---	14	30%		
Benzo(b)fluoranthene	18000	716	1430	ug/kg dry	100	---	14900	---	---	18	30%		
Benzo(k)fluoranthene	5890	716	1430	ug/kg dry	100	---	6340	---	---	8	30%	M-05	
Benzo(g,h,i)perylene	12700	476	955	ug/kg dry	100	---	11100	---	---	13	30%		
Chrysene	26000	476	955	ug/kg dry	100	---	24100	---	---	7	30%		
Dibenz(a,h)anthracene	1310	476	955	ug/kg dry	100	---	1070	---	---	20	30%		
Fluoranthene	92900	476	955	ug/kg dry	100	---	87600	---	---	6	30%		
Fluorene	25800	476	955	ug/kg dry	100	---	24000	---	---	7	30%		
Indeno(1,2,3-cd)pyrene	9760	476	955	ug/kg dry	100	---	8340	---	---	16	30%		
1-Methylnaphthalene	13600	955	1910	ug/kg dry	100	---	13600	---	---	0.06	30%	B	
2-Methylnaphthalene	10100	955	1910	ug/kg dry	100	---	9870	---	---	3	30%	B	
Naphthalene	5200	955	1910	ug/kg dry	100	---	4640	---	---	11	30%	B, Q-29	
Phenanthrene	153000	476	955	ug/kg dry	100	---	152000	---	---	0.4	30%		
Pyrene	110000	476	955	ug/kg dry	100	---	104000	---	---	6	30%		
Carbazole	2390	716	1430	ug/kg dry	100	---	1900	---	---	23	30%		
Dibenzofuran	3260	476	955	ug/kg dry	100	---	3210	---	---	1	30%		
2-Chlorophenol	ND	2390	4760	ug/kg dry	100	---	ND	---	---	---	30%		
4-Chloro-3-methylphenol	ND	4760	9550	ug/kg dry	100	---	ND	---	---	---	30%		
2,4-Dichlorophenol	ND	2390	4760	ug/kg dry	100	---	ND	---	---	---	30%		
2,4-Dimethylphenol	ND	2390	4760	ug/kg dry	100	---	ND	---	---	---	30%		
2,4-Dinitrophenol	ND	11900	23900	ug/kg dry	100	---	ND	---	---	---	30%		
4,6-Dinitro-2-methylphenol	ND	11900	23900	ug/kg dry	100	---	ND	---	---	---	30%		
2-Methylphenol	ND	1190	2390	ug/kg dry	100	---	ND	---	---	---	30%		
3+4-Methylphenol(s)	ND	1190	2390	ug/kg dry	100	---	ND	---	---	---	30%		
2-Nitrophenol	ND	4760	9550	ug/kg dry	100	---	ND	---	---	---	30%		
4-Nitrophenol	ND	9550	9550	ug/kg dry	100	---	ND	---	---	---	30%		
Pentachlorophenol (PCP)	ND	4760	9550	ug/kg dry	100	---	ND	---	---	---	30%		

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3J1665 - 11 02 23 0938
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J1038 - EPA 3546						Solid						
Duplicate (23J1038-DUP1)						Prepared: 10/26/23 09:42 Analyzed: 10/27/23 13:32						CONT
QC Source Sample: FC-102423-2199 (A3J1665-01)												
Phenol	ND	955	1910	ug/kg dry	100	---	ND	---	---	---	30%	
2,3,4,6-Tetrachlorophenol	ND	2390	4760	ug/kg dry	100	---	ND	---	---	---	30%	
2,3,5,6-Tetrachlorophenol	ND	2390	4760	ug/kg dry	100	---	ND	---	---	---	30%	
2,4,5-Trichlorophenol	ND	2390	4760	ug/kg dry	100	---	ND	---	---	---	30%	
2,4,6-Trichlorophenol	ND	2390	4760	ug/kg dry	100	---	ND	---	---	---	30%	
Bis(2-ethylhexyl)phthalate	ND	7160	14300	ug/kg dry	100	---	ND	---	---	---	30%	
Butyl benzyl phthalate	ND	4760	9550	ug/kg dry	100	---	ND	---	---	---	30%	
Diethylphthalate	ND	4760	9550	ug/kg dry	100	---	ND	---	---	---	30%	
Dimethylphthalate	ND	4760	9550	ug/kg dry	100	---	ND	---	---	---	30%	
Di-n-butylphthalate	ND	4760	9550	ug/kg dry	100	---	ND	---	---	---	30%	
Di-n-octyl phthalate	ND	4760	9550	ug/kg dry	100	---	ND	---	---	---	30%	
N-Nitrosodimethylamine	ND	1190	2390	ug/kg dry	100	---	ND	---	---	---	30%	
N-Nitroso-di-n-propylamine	ND	1190	2390	ug/kg dry	100	---	ND	---	---	---	30%	
N-Nitrosodiphenylamine	ND	5010	5010	ug/kg dry	100	---	ND	---	---	---	30%	R-02
Bis(2-Chloroethoxy) methane	ND	1190	2390	ug/kg dry	100	---	ND	---	---	---	30%	
Bis(2-Chloroethyl) ether	ND	1190	2390	ug/kg dry	100	---	ND	---	---	---	30%	
2,2'-Oxybis(1-Chloropropane)	ND	1190	2390	ug/kg dry	100	---	ND	---	---	---	30%	
Hexachlorobenzene	ND	476	955	ug/kg dry	100	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	1190	2390	ug/kg dry	100	---	ND	---	---	---	30%	
Hexachlorocyclopentadiene	ND	2390	4760	ug/kg dry	100	---	ND	---	---	---	30%	
Hexachloroethane	ND	1190	2390	ug/kg dry	100	---	ND	---	---	---	30%	
2-Chloronaphthalene	ND	955	955	ug/kg dry	100	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	1190	2390	ug/kg dry	100	---	ND	---	---	---	30%	
4-Bromophenyl phenyl ether	ND	1190	2390	ug/kg dry	100	---	ND	---	---	---	30%	
4-Chlorophenyl phenyl ether	ND	1190	2390	ug/kg dry	100	---	ND	---	---	---	30%	
Aniline	ND	2390	4760	ug/kg dry	100	---	ND	---	---	---	30%	
4-Chloroaniline	ND	1190	2390	ug/kg dry	100	---	ND	---	---	---	30%	
2-Nitroaniline	ND	9550	19100	ug/kg dry	100	---	ND	---	---	---	30%	
3-Nitroaniline	ND	9550	19100	ug/kg dry	100	---	ND	---	---	---	30%	
4-Nitroaniline	ND	9550	19100	ug/kg dry	100	---	ND	---	---	---	30%	
Nitrobenzene	ND	4760	9550	ug/kg dry	100	---	ND	---	---	---	30%	
2,4-Dinitrotoluene	ND	9550	9550	ug/kg dry	100	---	ND	---	---	---	30%	
2,6-Dinitrotoluene	ND	4760	9550	ug/kg dry	100	---	ND	---	---	---	30%	

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-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23J1038 - EPA 3546						Solid							
Duplicate (23J1038-DUP1)			Prepared: 10/26/23 09:42 Analyzed: 10/27/23 13:32						CONT				
QC Source Sample: FC-102423-2199 (A3J1665-01)													
Benzoic acid	ND	59800	119000	ug/kg dry	100	---	ND	---	---	---	30%		
Benzyl alcohol	ND	2390	4760	ug/kg dry	100	---	ND	---	---	---	30%		
Isophorone	ND	1190	2390	ug/kg dry	100	---	ND	---	---	---	30%		
Azobenzene (1,2-DPH)	ND	1190	2390	ug/kg dry	100	---	ND	---	---	---	30%		
Bis(2-Ethylhexyl) adipate	ND	11900	23900	ug/kg dry	100	---	ND	---	---	---	30%		
3,3'-Dichlorobenzidine	ND	9550	19100	ug/kg dry	100	---	ND	---	---	---	30%	Q-52	
1,2-Dinitrobenzene	ND	11900	23900	ug/kg dry	100	---	ND	---	---	---	30%		
1,3-Dinitrobenzene	ND	11900	23900	ug/kg dry	100	---	ND	---	---	---	30%		
1,4-Dinitrobenzene	ND	11900	23900	ug/kg dry	100	---	ND	---	---	---	30%		
Pyridine	ND	2390	4760	ug/kg dry	100	---	ND	---	---	---	30%		
1,2-Dichlorobenzene	ND	1190	2390	ug/kg dry	100	---	ND	---	---	---	30%		
1,3-Dichlorobenzene	ND	1190	2390	ug/kg dry	100	---	ND	---	---	---	30%		
1,4-Dichlorobenzene	ND	1190	2390	ug/kg dry	100	---	ND	---	---	---	30%		
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 105 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 100x</i>		<i>S-05</i>					
<i>2-Fluorobiphenyl (Surr)</i>		<i>132 %</i>		<i>44-120 %</i>		<i>"</i>		<i>S-05</i>					
<i>Phenol-d6 (Surr)</i>		<i>85 %</i>		<i>33-122 %</i>		<i>"</i>		<i>S-05</i>					
<i>p-Terphenyl-d14 (Surr)</i>		<i>99 %</i>		<i>54-127 %</i>		<i>"</i>		<i>S-05</i>					
<i>2-Fluorophenol (Surr)</i>		<i>65 %</i>		<i>35-120 %</i>		<i>"</i>		<i>S-05</i>					
<i>2,4,6-Tribromophenol (Surr)</i>		<i>102 %</i>		<i>39-132 %</i>		<i>"</i>		<i>S-05</i>					

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J1140 - EPA 3051A						Solid						
Blank (23J1140-BLK1)						Prepared: 10/30/23 10:15 Analyzed: 10/30/23 17:06						
<u>EPA 6020B</u>												
Arsenic	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Barium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	100	200	ug/kg wet	10	---	---	---	---	---	---	
Chromium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Mercury	ND	40.0	80.0	ug/kg wet	10	---	---	---	---	---	---	
Selenium	ND	500	1000	ug/kg wet	10	---	---	---	---	---	---	
Silver	ND	100	200	ug/kg wet	10	---	---	---	---	---	---	
Blank (23J1140-BLK2)						Prepared: 10/30/23 10:15 Analyzed: 10/30/23 22:41						
<u>EPA 6020B</u>												
Lead	ND	100	200	ug/kg wet	10	---	---	---	---	---	---	Q-16
LCS (23J1140-BS1)						Prepared: 10/30/23 10:15 Analyzed: 10/30/23 17:12						
<u>EPA 6020B</u>												
Arsenic	50400	500	1000	ug/kg wet	10	50000	---	101	80-120%	---	---	
Barium	50100	500	1000	ug/kg wet	10	50000	---	100	80-120%	---	---	
Cadmium	51400	100	200	ug/kg wet	10	50000	---	103	80-120%	---	---	
Chromium	49500	500	1000	ug/kg wet	10	50000	---	99	80-120%	---	---	
Mercury	1020	40.0	80.0	ug/kg wet	10	1000	---	102	80-120%	---	---	
Selenium	25200	500	1000	ug/kg wet	10	25000	---	101	80-120%	---	---	
Silver	27800	100	200	ug/kg wet	10	25000	---	111	80-120%	---	---	
LCS (23J1140-BS2)						Prepared: 10/30/23 10:15 Analyzed: 10/30/23 22:47						
<u>EPA 6020B</u>												
Lead	47500	100	200	ug/kg wet	10	50000	---	95	80-120%	---	---	Q-16
Duplicate (23J1140-DUP1)						Prepared: 10/30/23 10:15 Analyzed: 10/30/23 17:40						
<u>QC Source Sample: Non-SDG (A3J1757-01)</u>												
Arsenic	550	510	1020	ug/kg wet	10	---	770	---	---	33	20%	CONT,J
Barium	ND	510	1020	ug/kg wet	10	---	ND	---	---	---	20%	CONT
Cadmium	ND	102	204	ug/kg wet	10	---	ND	---	---	---	20%	CONT
Chromium	520000	510	1020	ug/kg wet	10	---	661000	---	---	24	20%	CONT,Q-04

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J1140 - EPA 3051A						Solid						
Duplicate (23J1140-DUP1)			Prepared: 10/30/23 10:15 Analyzed: 10/30/23 17:40									
<u>QC Source Sample: Non-SDG (A3J1757-01)</u>												
Mercury	ND	40.8	81.6	ug/kg wet	10	---	ND	---	---	---	20%	CONT
Selenium	ND	510	1020	ug/kg wet	10	---	ND	---	---	---	20%	CONT
Silver	ND	102	204	ug/kg wet	10	---	ND	---	---	---	20%	CONT
Duplicate (23J1140-DUP2)			Prepared: 10/30/23 10:15 Analyzed: 10/30/23 23:15									
<u>QC Source Sample: Non-SDG (A3J1757-01RE1)</u>												
Lead	ND	102	204	ug/kg wet	10	---	ND	---	---	---	20%	CONT,Q-16
Matrix Spike (23J1140-MS1)			Prepared: 10/30/23 10:15 Analyzed: 10/30/23 17:46									
<u>QC Source Sample: Non-SDG (A3J1757-01)</u>												
<u>EPA 6020B</u>												
Arsenic	47200	481	962	ug/kg wet	10	48100	770	97	75-125%	---	---	CONT
Barium	47100	481	962	ug/kg wet	10	48100	ND	98	75-125%	---	---	CONT
Cadmium	48000	96.2	192	ug/kg wet	10	48100	ND	100	75-125%	---	---	CONT
Chromium	609000	481	962	ug/kg wet	10	48100	661000	-108	75-125%	---	---	CONT,Q-65
Mercury	974	38.5	76.9	ug/kg wet	10	962	ND	101	75-125%	---	---	CONT
Selenium	21500	481	962	ug/kg wet	10	24000	ND	89	75-125%	---	---	CONT
Silver	25800	96.2	192	ug/kg wet	10	24000	ND	107	75-125%	---	---	CONT
Matrix Spike (23J1140-MS3)			Prepared: 10/30/23 10:15 Analyzed: 10/31/23 21:36									
<u>QC Source Sample: Non-SDG (A3J1757-01RE1)</u>												
<u>EPA 6020B</u>												
Lead	42600	100	200	ug/kg wet	10	50000	ND	85	75-125%	---	---	CONT,Q-16

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QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J1115 - EPA 1311/3015A						Solid						
Blank (23J1115-BLK1)			Prepared: 10/27/23 16:00 Analyzed: 10/28/23 01:18									
<u>1311/6020B</u>												
Arsenic	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLPa
Barium	ND	2500	5000	ug/L	10	---	---	---	---	---	---	TCLPa
Cadmium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLPa
Chromium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLPa
Lead	ND	25.0	50.0	ug/L	10	---	---	---	---	---	---	TCLPa
Mercury	ND	3.75	7.00	ug/L	10	---	---	---	---	---	---	TCLPa
Selenium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLPa
Silver	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLPa
LCS (23J1115-BS1)												
										Prepared: 10/27/23 16:00 Analyzed: 10/28/23 01:23		
<u>1311/6020B</u>												
Arsenic	5270	50.0	100	ug/L	10	5000	---	105	80-120%	---	---	TCLPa
Barium	10700	2500	5000	ug/L	10	10000	---	107	80-120%	---	---	TCLPa
Cadmium	1070	50.0	100	ug/L	10	1000	---	107	80-120%	---	---	Q-41, TCLPa
Chromium	5400	50.0	100	ug/L	10	5000	---	108	80-120%	---	---	Q-41, TCLPa
Lead	5620	25.0	50.0	ug/L	10	5000	---	112	80-120%	---	---	Q-41, TCLPa
Mercury	101	3.75	7.00	ug/L	10	100	---	101	80-120%	---	---	TCLPa
Selenium	1060	50.0	100	ug/L	10	1000	---	106	80-120%	---	---	TCLPa
Silver	979	50.0	100	ug/L	10	1000	---	98	80-120%	---	---	Q-41, TCLPa
Duplicate (23J1115-DUP1)												
										Prepared: 10/27/23 16:00 Analyzed: 10/28/23 01:44		
<u>QC Source Sample: FC-102423-2199 (A3J1665-01)</u>												
<u>1311/6020B</u>												
Arsenic	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	CONT
Barium	ND	2500	5000	ug/L	10	---	ND	---	---	---	20%	CONT
Cadmium	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	CONT
Chromium	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	CONT
Lead	ND	25.0	50.0	ug/L	10	---	ND	---	---	---	20%	CONT
Mercury	ND	3.75	7.00	ug/L	10	---	ND	---	---	---	20%	CONT
Selenium	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	CONT
Silver	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	CONT
Matrix Spike (23J1115-MS1)												
										Prepared: 10/27/23 16:00 Analyzed: 10/28/23 01:49		

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3J1665 - 11 02 23 0938
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QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J1115 - EPA 1311/3015A						Solid						
Matrix Spike (23J1115-MS1)						Prepared: 10/27/23 16:00 Analyzed: 10/28/23 01:49						
QC Source Sample: FC-102423-2199 (A3J1665-01)												
1311/6020B												
Arsenic	5140	50.0	100	ug/L	10	5000	ND	103	50-150%	---	---	CONT
Barium	10700	2500	5000	ug/L	10	10000	ND	107	50-150%	---	---	CONT
Cadmium	1070	50.0	100	ug/L	10	1000	ND	107	50-150%	---	---	CONT,Q-41
Chromium	5310	50.0	100	ug/L	10	5000	ND	106	50-150%	---	---	CONT,Q-41
Lead	5530	25.0	50.0	ug/L	10	5000	ND	111	50-150%	---	---	CONT,Q-41
Mercury	103	3.75	7.00	ug/L	10	100	ND	103	50-150%	---	---	CONT
Selenium	1050	50.0	100	ug/L	10	1000	ND	105	50-150%	---	---	CONT
Silver	915	50.0	100	ug/L	10	1000	ND	91	50-150%	---	---	CONT,Q-41

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QUALITY CONTROL (QC) SAMPLE RESULTS

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J1042 - ASTM D7511-12mod (S)						Soil						
Blank (23J1042-BLK1)						Prepared: 10/26/23 10:40 Analyzed: 10/26/23 17:25						
<u>D7511-12</u>												
Total Cyanide	ND	50.0	100	ug/kg wet	1	---	---	---	---	---	---	
LCS (23J1042-BS1)						Prepared: 10/26/23 10:40 Analyzed: 10/26/23 17:27						
<u>D7511-12</u>												
Total Cyanide	415	50.0	100	ug/kg wet	1	400	---	104	84-116%	---	---	
Matrix Spike (23J1042-MS1)						Prepared: 10/26/23 10:40 Analyzed: 10/26/23 17:33						
<u>QC Source Sample: FC-102423-2199 (A3J1665-01)</u>												
<u>D7511-12</u>												
Total Cyanide	6910	889	1780	ug/kg dry	5	1420	5550	96	64-136%	---	---	
Matrix Spike Dup (23J1042-MSD1)						Prepared: 10/26/23 10:40 Analyzed: 10/26/23 17:35						
<u>QC Source Sample: FC-102423-2199 (A3J1665-01)</u>												
<u>D7511-12</u>												
Total Cyanide	6840	889	1780	ug/kg dry	5	1420	5550	91	64-136%	1	47%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23J1039 - Total Solids (Dry Weight) - 2022												
Soil												
Duplicate (23J1039-DUP1)												
						Prepared: 10/26/23 09:54 Analyzed: 10/27/23 06:20						
<u>QC Source Sample: Non-SDG (A3J1672-01)</u>												
% Solids	76.9	---	1.00	%	1	---	78.6	---	---	2	10%	
Duplicate (23J1039-DUP2)												
						Prepared: 10/26/23 09:54 Analyzed: 10/27/23 06:20						
<u>QC Source Sample: Non-SDG (A3J1672-02)</u>												
% Solids	79.1	---	1.00	%	1	---	79.0	---	---	0.09	10%	
Duplicate (23J1039-DUP3)												
						Prepared: 10/26/23 09:54 Analyzed: 10/27/23 06:20						
<u>QC Source Sample: Non-SDG (A3J1672-03)</u>												
% Solids	78.8	---	1.00	%	1	---	78.8	---	---	0.008	10%	
Duplicate (23J1039-DUP4)												
						Prepared: 10/26/23 09:54 Analyzed: 10/27/23 06:20						
<u>QC Source Sample: Non-SDG (A3J1672-04)</u>												
% Solids	82.3	---	1.00	%	1	---	82.0	---	---	0.4	10%	
Duplicate (23J1039-DUP5)												
						Prepared: 10/26/23 09:54 Analyzed: 10/27/23 06:20						
<u>QC Source Sample: Non-SDG (A3J1672-05)</u>												
% Solids	66.6	---	1.00	%	1	---	67.5	---	---	1	10%	
Duplicate (23J1039-DUP6)												
						Prepared: 10/26/23 09:54 Analyzed: 10/27/23 06:20						
<u>QC Source Sample: Non-SDG (A3J1672-06)</u>												
% Solids	79.0	---	1.00	%	1	---	79.8	---	---	1	10%	
Duplicate (23J1039-DUP7)												
						Prepared: 10/26/23 09:54 Analyzed: 10/27/23 06:20						
<u>QC Source Sample: Non-SDG (A3J1672-07)</u>												
% Solids	80.4	---	1.00	%	1	---	80.5	---	---	0.1	10%	
Duplicate (23J1039-DUP8)												
						Prepared: 10/26/23 18:07 Analyzed: 10/27/23 06:20						
<u>QC Source Sample: Non-SDG (A3J1678-16)</u>												
% Solids	88.5	---	1.00	%	1	---	88.2	---	---	0.3	10%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	--------------------	-------	----------	-----------------	------------------	-------	-----------------	-----	--------------	-------

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23J1037</u>							
A3J1665-01	Solid	NWTPH-Dx	10/24/23 07:30	10/26/23 09:41	10.75g/5mL	10g/5mL	0.93

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23J1058</u>							
A3J1665-01	Solid	NWTPH-Gx (MS)	10/24/23 07:30	10/25/23 12:45	3.3g/5mL	5g/5mL	1.52

Volatile Organic Compounds by EPA 8260D

Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23J1058</u>							
A3J1665-01	Solid	5035A/8260D	10/24/23 07:30	10/25/23 12:45	3.3g/5mL	5g/5mL	1.52

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Prep: EPA 1311/5030C TCLP Volatiles					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23J1123</u>							
A3J1665-01	Solid	1311/8260D	10/24/23 07:30	10/29/23 13:35	5mL/5mL	5mL/5mL	1.00

Semivolatile Organic Compounds by EPA 8270E

Prep: EPA 3546					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23J1038</u>							
A3J1665-01	Solid	EPA 8270E	10/24/23 07:30	10/26/23 09:42	15.08g/2mL	15g/2mL	1.00

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3051A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23J1140</u>							
A3J1665-01	Solid	EPA 6020B	10/24/23 07:30	10/30/23 10:15	0.473g/50mL	0.5g/50mL	1.06

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SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A3J1665-01RE1	Solid	EPA 6020B	10/24/23 07:30	10/30/23 10:15	0.473g/50mL	0.5g/50mL	1.06

TCLP Metals by EPA 6020B (ICPMS)

Prep: EPA 1311/3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: <u>23J1115</u>							
A3J1665-01	Solid	1311/6020B	10/24/23 07:30	10/27/23 16:00	10mL/50mL	10mL/50mL	1.00

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Prep: ASTM D7511-12mod (S)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: <u>23J1042</u>							
A3J1665-01	Solid	D7511-12	10/24/23 07:30	10/26/23 10:40	2.5594g/50mL	2.5g/50mL	0.98

Percent Dry Weight

Prep: Total Solids (Dry Weight) - 2022

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: <u>23J1039</u>							
A3J1665-01	Solid	EPA 8000D	10/24/23 07:30	10/26/23 12:30			NA

TCLP Extraction by EPA 1311

Prep: EPA 1311 (TCLP)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: <u>23J1047</u>							
A3J1665-01	Solid	EPA 1311	10/24/23 07:30	10/26/23 15:45	100g/2000g	100g/2000g	NA

Prep: EPA 1311 TCLP/ZHE

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: <u>23J1004</u>							
A3J1665-01	Solid	EPA 1311 ZHE	10/24/23 07:30	10/25/23 15:21	25g/500.9g	25g/500g	NA

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Sevenson Environmental Services, Inc.
2749 Lockport Road
Niagara Falls, NY 14305

Project: **Gasco -- Filtercake**
Project Number: **111323**
Project Manager: **Chip Byrd**

Report ID:
A3J1665 - 11 02 23 0938

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- B** Analyte detected in an associated blank at a level above the MRL. (See Notes and Conventions below.)
- B-02** Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
- CONT** The Sample Container provided for this analysis was not provided by Apex Laboratories, and has not been verified as part of the Apex Quality System.
- F-13** The chromatographic pattern does not resemble the fuel standard used for quantitation
- ICV-02** Estimated Result. Initial Calibration Verification (ICV) failed low.
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- M-05** Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
- Q-04** Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- Q-16** Reanalysis of an original Batch QC sample.
- Q-18** Matrix Spike results for this extraction batch are not reported due to the high dilution necessary for analysis of the source sample.
- Q-29** Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
- Q-31** Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
- Q-41** Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- Q-52** Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
- Q-54** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +1%. The results are reported as Estimated Values.
- Q-54a** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +2%. The results are reported as Estimated Values.
- Q-54b** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +4%. The results are reported as Estimated Values.
- Q-54c** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -1%. The results are reported as Estimated Values.
- Q-55** Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
- Q-56** Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260
- Q-65** Spike recovery is estimated due to the high analyte concentration of the source sample.
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.

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Darwin Thomas, Business Development Director



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- S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- TCLP** This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23J1004.
- TCLPa** This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23J1047.
- V-15** Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.
- V-16** Sample aliquot was subsampled from the sample container in the laboratory. The subsampled aliquot was not preserved within 48 hours of sampling.

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

- DET Analyte DETECTED at or above the detection or reporting limit.
- ND Analyte NOT DETECTED at or above the detection or reporting limit.
- NR Result Not Reported
- RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

- " dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
- " wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
- " " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

Results for Volatiles analyses on soils and sediments that are reported on a "dry weight" basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an "As Received" basis do not have the WMS correction applied, as dry weight was not performed.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

- " --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- " *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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2749 Lockport Road
Niagara Falls, NY 14305

Project: Gasco -- Filtercake
Project Number: 111323
Project Manager: Chip Byrd

Report ID:
A3J1665 - 11 02 23 0938

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

- Standard practice is to evaluate the results from Blank QC Samples down to a level equal to 1/2 the Reporting Limit (RL).
 - For Blank hits falling between 1/2 the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
 - For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
- For further details, please request a copy of this document.
- Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.
- 'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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Table with 3 columns: Client (Sevenson Environmental Services, Inc.), Project (Gasco -- Filtercake), and Report ID (A3J1665 - 11 02 23 0938).

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -
EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

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Table header with columns: Matrix, Analysis, TNI_ID, Analyte, TNI_ID, Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Handwritten signature of Darwin Thomas

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APEX LABS

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Company: Sevenson Environmental Services, Inc.
 Address: 2749 Lockport Road, Niagara Falls, NY 14305

CHAIN OF CUSTODY

COC ___ of ___

Lab # **A3J1665**

Project Mgr: Chip Byrd	Project Name: Gasco -- Filtercake	Project # 111323
Phone: (716) 583-2754	Fax:	E-mail: wbyrd@sevenson.com
ANALYSIS REQUEST		
SAMPLE ID	LAB ID #	DATE
FC-102423-2199		10/24/23
MATRIX	# OF CONTAINERS	TIME
	1	11:16
8260 VOCs		
1311/8260 TCPL VOCs		
8270D LL Full List		
Metals, RCRA 8		
Metals, TPCL		
Total Cyanide		
NWTFH -DX		
NWTFH-GX		
SPECIAL INSTRUCTIONS:		
Normal Turn Around Time (TAT) = 6-10 Business Days		
TAT Requested (circle)	1 DAY	2 DAY
	5 DAY	3 DAY
	STD	4 DAY
	Other: ___ RUSH	
SAMPLES ARE HELD FOR 30 DAYS		
RELINQUISHED BY:	RECEIVED BY:	2/16/14 BC
Signature: <i>Chip Byrd</i>	Signature: <i>[Signature]</i>	Date: 10/25/23
Printed Name: Alice Byrd	Printed Name: [Name]	Time: 1015
Company: SES	Company: APEX LABS	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3J1665 - 11 02 23 0938
-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-----------------------------------------------------

APEX LABS COOLER RECEIPT FORM

Client: Sevenson Environmental Services, ^{ZMC-} Element WO#: A3J1665

Project/Project #: Gasco - Filtercake 111323

Delivery Info:
 Date/time received: 10/25/23 @ 1015 By: EST
 Delivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen Other

Cooler Inspection Date/time inspected: 10/25/23 @ 1102 By: EST
 Chain of Custody included? Yes No
 Signed/dated by client? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>4.1</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>Y</u>						
Ice type: (Gel/Real/Other)	<u>gel</u>						
Condition (In/Out):	<u>In</u>						

Cooler out of temp? (Y/N) Possible reason why: _____
 Green dots applied to out of temperature samples? Yes No
 Out of temperature samples form initiated? Yes No
Sample Inspection: Date/time inspected: 10/25/23 @ 12:30 By: AAW
 All samples intact? Yes No Comments: _____

 Bottle labels/COCs agree? Yes No Comments: cont. ID reads #2199

 COC/container discrepancies form initiated? Yes No
 Containers/volumes received appropriate for analysis? Yes No Comments: _____

 Do VOA vials have visible headspace? Yes No NA
 Comments: _____
 Water samples: pH checked: Yes No NA pH appropriate? Yes No NA pH ID: _____
 Comments: _____

Additional information:

 Labeled by: AAW Witness: _____ Cooler Inspected by: KRS
Form Y-003 R-01

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Sevenson Environmental - ORL

Sample Delivery Group: L1670708
Samples Received: 10/26/2023
Project Number: 1113
Description:

Report To: William Byrd

Entire Report Reviewed By:














Donna Eidson
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

FC-102423-2199 L1670708-01 Solids and Chemical Materials

Collected by

Collected date/time

Received date/time

10/24/23 07:30

10/26/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method DOE Ga-01-R/901.1	WG2150273	1	10/30/23 12:16	11/02/23 11:27	ZRG	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Donna Eidson
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Radiochemistry by Method DOE Ga-01-R/901.1

Analyte	Result pCi/g	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/g	Lc pCi/g	Analysis Date date / time	Batch
Potassium-40	0.820		0.443	0.443	0.817	0.291	11/02/2023 11:27	WG2150273
Thallium-208	0.0156	U	0.0459	0.0459	0.0897	0.0386	11/02/2023 11:27	WG2150273
Lead-210	-0.897	U	3.06	3.06	5.75	2.65	11/02/2023 11:27	WG2150273
Lead-212	0.0975	U	0.0699	0.0699	0.118	0.0538	11/02/2023 11:27	WG2150273
Lead-214	0.0230	U	0.0773	0.0773	0.180	0.0811	11/02/2023 11:27	WG2150273
Bismuth-212	0.0353	U	0.541	0.541	1.17	0.484	11/02/2023 11:27	WG2150273
Bismuth-214 (Ra-226)	0.127	U	0.0931	0.0931	0.171	0.0730	11/02/2023 11:27	WG2150273
Radium-226 (186 KeV)	0.313	U	0.411	0.411	0.780	0.358	11/02/2023 11:27	WG2150273
Actinium-228 (Ra-228)	0.236	U	0.160	0.160	0.296	0.120	11/02/2023 11:27	WG2150273
Thorium-234 (U-238)	-0.102	U	0.523	0.523	1.36	0.538	11/02/2023 11:27	WG2150273
Protactinium-234m	-0.573	U	5.49	5.49	35.1	14.0	11/02/2023 11:27	WG2150273
Uranium-235	0.0281	U	0.0411	0.0411	0.0798	0.0367	11/02/2023 11:27	WG2150273

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3995042-1 11/02/23 00:09

Analyte	MB Result pCi/g	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/g	MB Lc pCi/g
Actinium-228 (Ra-228)	0.0703	IC	0.0899	0.163	0.0581
Americium-241	0.0615	IC	0.128	0.228	0.105
Bismuth-212	-0.178	IC	0.442	1.02	0.426
Bismuth-214 (Ra-226)	0.162	IC	0.0706	0.100	0.0398
Cesium-137	0.0448	IC	0.0308	0.0438	0.0159
Cobalt-60	0.0369	IC	0.0255	0.0676	0.0241
Lead-210	1.30	IC	2.88	5.12	2.37
Lead-212	-0.00224	IC	0.0489	0.0929	0.0421
Lead-214	0.0498	IC	0.0616	0.133	0.0590
Potassium-40	0.479	IC	0.404	0.793	0.297
Protactinium-234m	1.86	IC	4.96	32.1	13.1
Radium-226 (186 KeV)	0.263	IC	0.391	0.745	0.345
Thallium-208	0.0117	IC	0.0327	0.0649	0.0271
Thorium-234 (U-238)	1.01	IC	0.568	1.08	0.424
Uranium-235	0.0196	IC	0.0391	0.0750	0.0348

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1663372-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1663372-01 11/02/23 10:22 • (DUP) R3995042-4 11/02/23 14:52

Analyte	Original Result pCi/g	Original 2 sigma CE + / -	Original MDA pCi/g	Original Lc pCi/g	DUP Result pCi/g	DUP 2 sigma CE + / -	DUP MDA pCi/g	DUP Lc pCi/g	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Actinium-228 (Ra-228)	0.0696	0.0548	0.0946	0.0366	0.0385	0.0538	0.134	0.0539	57.6	0.405	IC	20	3
Bismuth-212	-0.0208	0.215	0.474	0.199	-0.182	0.238	0.593	0.249	0.000	0.504	IC	20	3
Bismuth-214 (Ra-226)	0.243	0.0570	0.0682	0.0293	0.186	0.0598	0.0825	0.0352	26.6	0.689	IC	20	3
Lead-210	171	17.3	5.50	2.65	167	17.0	5.22	2.50	2.30	0.161	IC	20	3
Lead-212	0.0343	0.0339	0.0591	0.0275	0.0745	0.0454	0.0776	0.0359	74.0	0.710	IC	20	3
Lead-214	0.209	0.0465	0.0721	0.0326	0.149	0.0573	0.105	0.0478	33.6	0.815	IC	20	3
Potassium-40	0.870	0.288	0.313	0.111	0.0713	0.325	0.691	0.288	170	1.84	IC	20	3
Radium-226 (186 KeV)					-0.0653	0.339	0.670	0.317	200	0.528	IC	20	3
Thallium-208	0.0269	0.0173	0.0285	0.0119	0.00901	0.0218	0.0438	0.0188	99.7	0.642	IC	20	3
Thorium-234 (U-238)	-0.108	0.408	0.983	0.399	0.139	0.425	1.02	0.414	200	0.419	IC	20	3
Uranium-235	0.00897	0.0246	0.0466	0.0221	0.00473	0.0338	0.0681	0.0322	62.0	0.102	IC	20	3
Protactinium-234m					-1.13	2.65	19.5	8.04	200	0.908	IC	20	3

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3995042-2 11/02/23 10:35 • (LCSD) R3995042-3 11/02/23 11:23

Analyte	Spike Amount pCi/g	LCS Result pCi/g	LCSD Result pCi/g	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Americium-241	47.3	49.6	55.5	105	117	75.0-125			11.2	20
Cesium-137	72.4	78.8	83.3	109	115	80.0-120			5.49	20
Cobalt-60	86.9	92.6	93.8	107	108	80.0-120			1.30	20

- ¹Cp
- ²Tc
- ³Ss
- ⁴Cn
- ⁵Sr
- ⁶Qc
- ⁷Gl
- ⁸Al
- ⁹Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

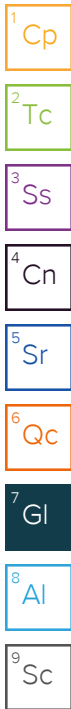
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.



ACCREDITATIONS & LOCATIONS

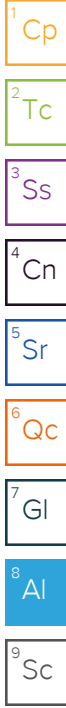
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Sevenson Environmental	Billing Information:	Pres Chk	Analysis / Container / Preservative						Chain of Custody Page ___ of ___	
	Report to: William Byrd		Email To: wbyrd@sevenson.com	GSPEC-FULL - 16 oz or gal zip bag 1/2 full						



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



L# 11670708
A072

Project Description: Filter Cake	City/State Collected: Portland, Oregon
Phone: 7165832754	Client Project # 1113
Fax:	Lab Project #
Collected by (print):	Site/Facility ID #
Collected by (signature):	P.O. #
Immediately Packed on Ice N ___ Y ___	Quote #
	Rush? (Lab MUST Be Notified) X
	Date Results Needed
	No. of Cntrs

Acctnum: **SEVENENVORL**
Template:
Prelogin:
TSR: **Donna Eidson**
PB:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Remarks	Sample # (lab only)
FC-102423-2199	Grab	SS		10-24-2023	0730	1	X	WM LIST -01

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other scm

Remarks:
No ice

Samples returned via:
___ UPS ___ FedEx ___ Courier ___

Tracking # LS000pm

pH _____ Temp _____
Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact: ___ NP ___ Y ___ N
COC Signed/Accurate: ___ Y ___ N
Bottles arrive intact: ___ Y ___ N
Correct bottles used: ___ Y ___ N
Sufficient volume sent: ___ Y ___ N

If Applicable
VOA Zero Headspace: ___ Y ___ N
Preservation Correct/Checked: ___ Y ___ N

Relinquished by: (Signature) <i>William Byrd</i>	Date: <u>10/25/2023</u>	Time: <u>11:25</u>	Received by: (Signature) <i>[Signature]</i>	Trip Blank Received: Yes / No <input checked="" type="checkbox"/> HCL / MeOH <input checked="" type="checkbox"/> TBR	Temp: <u>4°C</u>	Bottles Received: <u>1</u>	If preservation required by Login: Date/Time
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:	Hold:	Condition: <u>OK</u>
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: <u>10/25/2023</u>	Time: <u>0900</u>		

Sevenson Environmental		Billing Information:				Pres Chk	Analysis / Container / Preservative							Chain of Custody Page ___ of ___			
Report to: William Byrd		Email To: wbyrd@sevenson.com				GSPEC-FULL - 16 oz or gal zip bag 1/2 full											
Project Description: Filter Cake		City/State Collected: Portland, Oregon															
Phone: 7165832754 Fax:	Client Project # 1113	Lab Project #															
Collected by (print):	Site/Facility ID #	P.O. #															
Collected by (signature):	Rush? (Lab MUST Be Notified) X	Quote #															
Immediately Packed on Ice N ___ Y ___		Date Results Needed															
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time		No. of Cntrs										
FC-102423-2199	Grab	SS		10-24-2023	0730		1	X									
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other scm		Remarks: No ice				pH _____ Temp _____ Flow _____ Other _____		Sample Receipt Checklist COC Seal Present/Intact: ___ NP ___ Y ___ N COC Signed/Accurate: ___ Y ___ N Bottles arrive intact: ___ Y ___ N Correct bottles used: ___ Y ___ N Sufficient volume sent: ___ Y ___ N If Applicable VOA Zero Headspace: ___ Y ___ N Preservation Correct/Checked: ___ Y ___ N									
Relinquished by : (Signature) <i>William Byrd</i>		Date: 10/25/2023	Time: 11:25	Received by: (Signature)		Trip Blank Received: Yes / No HCL / MeOH TBR											
Relinquished by : (Signature)		Date:	Time:	Received by: (Signature)		Temp: °C	Bottles Received:	If preservation required by Login: Date/Time									
Relinquished by : (Signature)		Date:	Time:	Received for lab by: (Signature)		Date:	Time:	Hold:	Condition: NCF / OK								



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



L #
Table #
Acctnum: **SEVENENVORL**
Template:
Prelogin:
TSR: **Donna Eidson**
PB:
Shipped Via:
Remarks Sample # (lab only)

Table 1 - Jan-Oct 2023 Filter Press Cake Residuals

Benzoic acid			<178000		<143000		<139000		<126000		<351000		<135000		<350000		<24800		<336000		<59800	
Benzyl alcohol			<7120		<5690		<5560		<5010		<14000		<5390		<14000		<989		<13400		<2390	
Isophorone			<3560		<2840		<2780		<2500		<7000		<2690		<6980		<494		<6690		<1190	
Azobenzene (1,2-DPH)			<3560		<2840		<2780		<2500		<7000		<2690		<6980		<494		<6690		<1190	
Bis(2-Ethylhexyl)adipate			<35600		<28400		<27800		<25000		<70000		<26900		<69800		<4940		<66900		<11900	
3,3'-Dichlorobenzidine			<28500	Q-52	<22800	Q-52	<22300	Q-52	<20100	Q-52	<56200	Q-52	<21600	Q-52	<56000	Q-52	<3960	Q-52	<53700	Q-52	<9550	Q-52
1,2-Dinitrobenzene			<35600		<28400		<27800		<25000		<70000		<26900		<69800		<4940		<66900		<11900	
1,3-Dinitrobenzene			<35600		<28400		<27800		<25000		<70000		<26900		<69800		<4940		<66900		<11900	
1,4-Dinitrobenzene			<35600		<28400		<27800		<25000		<70000		<26900		<69800		<4940		<66900		<11900	
Pyridine	5,000	100,000	<7120		<5690		<5560		<5010		<14000		<5390		<14000		<989		<13400		<2390	
1,2-Dichlorobenzene			<3560		<2840		<2780		<2500		<7000		<2690		<6980		<494		<6690		<1190	
1,3-Dichlorobenzene			<3560		<2840		<2780		<2500		<7000		<2690		<6980		<494		<6690		<1190	
1,4-Dichlorobenzene	7,500	150,000	<3560		<2840		<2780		<2500		<7000		<2690		<6980		<494		<6690		<1190	
Total Metals by EPA 6020B(ICPMS)			µg/kg dry		µg/kg dry		µg/kg dry		µg/kg dry		µg/kg dry		µg/kg dry		µg/kg dry		µg/kg dry		µg/kg dry		µg/kg dry	
Arsenic	5,000	100,000	8950		8430		9760	CONT	6360	CONT	8360		9130	CONT	8990	CONT	7680	CONT	8790		11400	CONT
Barium	100,000	2,000,000	217000		227000		220,000	CONT	178000	CONT	211000		218000	CONT	198000	CONT	175000	CONT	197000		207000	CONT
Cadmium	1,000	20,000	<526		<458		<450	CONT	<410	CONT	<418		<431	CONT	<421	CONT	<392	CONT	<358		<380	CONT
Chromium	5,000	100,000	<2630		<2290		<2250	CONT	<2050	CONT	<2090		<2150	CONT	<2100	CONT	<1960	CONT	<1790		<1900	CONT
Lead	5,000	100,000	<526		<458		635	CONT,J	<410	CONT	<418		<431	CONT	<421	CONT	<392	CONT	<358		<380	CONT
Mercury	200	4,000	<210		<183		<180	CONT	<164	CONT	<167		<172	CONT	<168	CONT	<157	CONT	<143		<152	CONT
Selenium	1,000	20,000	<2630		<2290		<2250	CONT	<2050	CONT	<2090		<2150	CONT	<2100	CONT	<1960	CONT	<1790		<1900	CONT
Silver	5,000	100,000	<526		<458		<450	CONT	<410	CONT	<418		<431	CONT	<421	CONT	<392	CONT	<358		<380	CONT
TCLP Metals by EPA 6020B (ICPMS)			µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Arsenic	5,000	100,000	<50.0		<50.0	Q-44b	<50.0	CONT,Q-44a	<50.0	CONT	<50.0		<50.0	CONT	<50.0	CONT	<50.0	CONT	<50.0		<50.0	CONT
Barium	100,000	2,000,000	<2500		<2500	Q-44b	<2500	CONT,Q-44a	<2500	CONT	<2500		<2500	CONT	<2500	CONT	<2500	CONT	<2500		<2500	CONT
Cadmium	1,000	20,000	<50.0		<50.0	Q-44b	<50.0	CONT,Q-44a	<50.0	CONT	<50.0		<50.0	CONT	<50.0	CONT	<50.0	CONT	<50.0		<50.0	CONT
Chromium	5,000	100,000	<50.0		<50.0	Q-44b	<50.0	CONT,Q-44a	<50.0	CONT	<50.0		<50.0	CONT	<50.0	CONT	<100	CONT	<50.0		<50.0	CONT
Lead	5,000	100,000	<25.0		<25.0	Q-44b	<25.0	CONT,Q-44a	<25.0	CONT	<25.0		<25.0	CONT	<25.0	CONT	<25.0	CONT	<25.0		<25.0	CONT
Mercury	200	4,000	<3.75		<3.75	Q-44b	<3.75	CONT,Q-44a	<3.75	CONT	<3.75		<3.75	CONT	<3.75	CONT	<3.75	CONT	<3.75		<3.75	CONT
Selenium	1,000	20,000	<50.0		<50.0	Q-44b	<50.0	CONT,Q-44a	<50.0	CONT	<50.0		<50.0	CONT	<50.0	CONT	<50.0	CONT	<50.0		<50.0	CONT
Silver	5,000	100,000	<50.0		<50.0	Q-44b	<50.0	CONT,Q-44a	<50.0	CONT	<50.0		<50.0	CONT	<50.0	CONT	<50.0	CONT	<50.0		<50.0	CONT
Total Cyanide (ug/kg dry)			5340		5420		4050		6400		5130		4100	Q-42	6980		6620	Q-42	7020	Q-42	5550	
Percent Dry Weight																						
%Solids			18.4		22.9		23.9		26.4		26.3		24.7		25.3		26.9		29.4		27.8	

NOTES:
 *If laboratory results from the totals test reported in ug/kg exceed the "20x TC Threshold" value, then see results of the TCLP test for direct comparison to actual TC regulatory levels reported in ug/L for regulatory status determination.
 B = Analyte detected in an associated blank at a level above the MRL. (See Notes and Conventions below.)
 B-02 = Analyte detected in an associated blank at a level between one-half the MRL and the MRL.
 CONT = The Sample Container provided for this analysis was not provided by Apex Laboratories, and has not been verified as part of the Apex Quality System
 ICV-02 = Estimated Result. Initial Calibration Verification (IVC) failed low.
 J = Estimated Result. Result is detected below the lowest point of the calibration curve, but above the specified MDL.
 F-13 = The chromatographic pattern does not resemble the fuel standard used for quantitation.
 M-05 = Estimated results. Peak separation for structural isomers is insufficient for accurate quantification
 Q-29 = Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
 Q-37 = Sample is non-homogenous. Sample results are less than MRL and duplicate results have hits greater than the MRL. See Duplicate results.
 Q-42 = Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits.
 Q-44a = Room temperature during the 18 hr. TCLP tumbling procedure exceeded EPA recommended temperature range by no more than +/-2 degrees C for a maximum of 4 Hrs.
 Q-44b = Room temperature during the 18 hr. TCLP tumbling procedure exceeded EPA recommended temperature range by no more than +/-2 degrees C for a maximum of 25.7.
 Q-52 = Due to erratic or low blank spike recoveries results are considered estimated.
 R-02 = The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
 R-06 = Reporting level raised due to possible carryover from a previous sample.

Table 2 - Charted Pace Analytical Results

Sample Identification	FC-102423-2199						
Report Date	2-Nov-23						
Pace Analytical Report	L1670708						
PaceSample Identification	L1670708-01						
Radiochemistry by Method DOE Ga-01-R/901.1							
Analyte (*1)	WM Limits (*2)	Results	Qualifier	2 sigma CE	TPU	MDA	Lc
	pCi/g	pCi/g		+/-	+/-	pCi/g	pCi/g
Potassium-40		0.820		0.433	0.443	0.817	0.291
Thallium-208		0.0156	U	0.0459	0.0459	0.0897	0.0386
Lead-210	10	-0.897	U	3.06	3.06	5.75	2.65
Lead-212		0.0975	J	0.0699	0.0699	0.118	0.0538
Lead-214		0.0230	U	0.0773	0.0773	0.180	0.0811
Bismuth-212		0.0353	U	0.541	0.541	1.17	0.484
Bismuth-214 (Ra-226)	5	0.127	J	0.0931	0.0931	0.171	0.0730
Radium-226 (186 KeV)	5	0.313	U	0.411	0.411	0.780	0.358
Actinium-228 (Ra-228)	20	0.236	J	0.160	0.160	0.296	0.120
Thorium-234 (U-238)	10	-0.102	U	0.523	0.523	1.360	0.538
Protactinium-234m		-0.537	U	5.49	5.49	35.1	14.0
Uranium-235	10	0.0281	U	0.0411	0.0411	0.0798	0.0367

Columns Headings Define

Result = The actual analytical final results reported on sample.

Qualifier = provides a letter and/or number that corresponds to additional information about results

2 sigma CE = Confidence level

TPU = Total Propagated Uncertainty – a DOE required uncertainty that is calculated using the 1 sigma counting error plus all measurable variables (uncertainties from pipettors, beakers, graduated cylinders, standards, etc).

MDA = Minimum Detectable Activity reported at a 99% confidence level

Lc = Decision Level or Critical Level = a DOE required Detection limit at a 95% confidence level

NOTES:

J = The identification of the analyte is acceptable: the reported value is an estimate.

U = Below Detectable Limits: Indicates that the analyte was not detected.

Waste Management (WM) uses a custom gamma spec isotope list agreed upon with Oregon Department of Energy (*1).

The main isotopes of concern are Radium226, Radium228, Uranium, Thorium, and Lead210 (and all their daughter products).

For a material to not require a pathway exemption to be disposed of in Oregon it needs to be below the limits provided in OAR 345-050's table 1 which WM has simplified (*2).

Please keep in mind that factors such as uncertainty effect the final value.



Non-Hazardous WAM Approval

Requested Management Facility: Hillsboro Landfill

Profile Number: 1151160R Waste Acceptance Expiration Date: 12/02/2023

Common Name: Non-hazardous Filter Cake WM Regulatory Volume Limit: _____ NA

APPROVAL DETAILS

Approval Decision: Approved Not Approved

Profile Renewal: Yes No

Management Method: Direct Landfill

Generator Name: NW Natural

Profile Expiration Date: 12/02/2023

Periodic Testing Due Date: _____ NA

Other Due Date: _____ NA (Specify) _____

Management Facility Precautions, Special Handling Procedures or Limitation on approval:

Generator Conditions

- Shall not contain free liquids.
- Waste manifest or applicable shipping document must accompany load.
- The waste profile number must appear on the shipping papers.

Facility Conditions

ODOE Concurrence 12/02/22

WM Authorization Name: Leslie Fichera Title: Waste Approval Manager

WM Authorization Signature: Leslie Fichera Date: 12/05/2022

Agency Authorization (if Required): _____ Date: _____